

# The Taiwan Cement Corporation 2018 Annual Report

Stock code 1101

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# **POTCC** EUDAIMONIA

THE HIGHEST HUMAN GOOD



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#### Chairman's Address

#### Cement and the Blue Magpie

`At the beginning of the 15th century, the Portuguese Prince, Henry the Navigator, founded the world's first nautical school. He was the first to use a methodical approach to gain knowledge of the mysterious and strange ocean.

Then a group of sailors including Bartolomeu Dias, Christopher Columbus, Vasco da Gama and Ferdinand Magellan also launched out to explore the unknown geographic worlds across different oceans. It is because of the adventurous spirits of this group of sailors that the human mind opened up to an unprecedented vision. Human beings were finally daring enough to understand and yearn to develop this brave new world in front of their eyes.

In October 1836, the HMS Beagle carried the young Charles Darwin to the Galapagos Islands and returned him to Falmouth, England. The species and notes that Darwin brought back enabled him to write, On the Origin of Species, the scientific edition which is considered the seed of evolutionary thought. This five-year voyage revealed and unraveled the mysterious relationship between Nature and mankind, and once again opened up another completely different perspective to view the world.

Knowledge and expertise are the telescope and the microscope through which humans see the world. Such is the vision and self-understanding of an industry based on production technology and an operating model of that particular industry closely related.

Since the Industrial Revolution, the self-awareness of the cement industry comes from its unique production methods and experiences. Now, with the advancement of technology and concepts, the cement industry has begun to reinvent itself, to become a more eco-friendly and people friendly industry. Here, I would like to share my thoughts and experiences of our efforts to explore and attempt to understand the cement industry and "the dialogue between the cement industry and nature."

There is an important book by Diane Ackerman (American naturalist and poet), The Human Age: The World Shaped by Us.

In this book, Ackerman vividly described the enormous capability of humans and how we have changed the ecology of Earth on all fronts, including the environment and topography. When the world's large cities use their spider web-like roads and lights to illuminate the night of this entire planet, everyone seems to have forgotten how much cement has contributed to the human constructed landscape of our civilization.

The cement industry is the same as the agriculture, fishery, and meat and dairy industries. It uses the Earth's resources for the benefit of human civilization, but it has never been linked to higher values. Invasive, polluting, lifeless, and incompatible with beauty seem to be the values and fate of the cement industry and contribute to the misconception of the majority of the public.

Many industries have also caused damage and pollution. As time passes, some of them disappeared, and some are still irreplaceable like the cement industry.

Objectively speaking, the self-imagination of the cement industry is deeply bounded by its technology and production methods. For example, to produce cement, the industry must mine limestone, burn fossil fuels, and consume energy which generates emissions. This reality, in turn, affects the way society views this industry and the way we operate. But now, technological advancement and breakthroughs have brought about an opportunity for many changes. Cement is no longer a high power consumption and high pollution industry. In the 40 years since I joined the industry, energy consumption has been reduced by approximately two-thirds and PM and SOx emissions have improved dramatically and today are about 1% as compared to 40 years ago!

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The popularization of the go-green concept, "Earth-Friendly, Protecting the Ecology" does not have a long history. Before this, humanity's abilities were relatively limited, and we also overestimated Nature's self-healing capabilities. When humans began to realize this, the Earth was already gravely injured. The disappearance of the rainforest, the destruction of Nature, the damage of the Earth, and the hole in the ozone layer have shaken all of us. Like a tidal wave, after much introspection remedial policies came pouring out. The cement industry has been attacked and labeled as working against Nature. This criticism has only been accurate only since the Industrial Revolution - but not before and not now. However, we should not dodge this issue; instead, we should reflect more, review, and take responsibility for our role in this industrial society.

The cement industry takes soil and stones from the land, transforms them, and then creates a space for the sustainable development of human civilization. This contribution is comparable to the ancient Chinese goddess, Nüwa, that created humankind and repaired the roof of Heaven. Coincidentally, Nüwa also used dirt and rocks to build humans and societies and save the Earth. Therefore we could say that Nüwa was, in fact, the first maker of cement!

Very early on, Taiwan Cement started to face environmental protection pressure and shock. With training, we started to rethink the relationship between nature and the cement industry. Taiwan Cement's actions, business philosophy and management methods are all based on the ideas of "nature first" and "benefit to society" as the true purposes of our company. We believe enterprises should establish conscious positive industrial attitudes that are beneficial to society as a whole and to carry more social responsibility when faced with the issue of coexistence with Nature.

All around the world, countries are building zero-waste cities to reduce the volume of solid waste at the source and to strengthen resource utilization and inoffensive methods of treating waste. A "zero-waste city" is the fundamental ideology of advanced urban society. The ultimate goal is to minimize the production of waste, maximize the resource utilization, and have the safest method to thoroughly treat waste that cannot be reutilized again. As a cement company, our high-temperature cement kilns are more advantageous in waste treatment as compared to incinerators. Taiwan Cement strives to do our best and continuously increase our efforts in this field.

In 2018, we saw fruitful results in our cement business:

China continued to deepen supply-side reform by executing off-peak production stoppages and setting stricter environmental protection standards. These actions resulted in an improved market balance and rising cement prices. Our overall net income in 2018 showed significant growth compared to 2017 and continues to create profit for our shareholders.

#### Cement production: combining clinker and cement

The combined clinker and cement production of TCC in Taiwan and Mainland China were 60.36 million tons in 2018, representing a 5% annual growth compared to 57.47 million tons produced in 2017.

Ready-mix concrete (RMC) production was 4.76 million cubic meters in 2018, representing a 9.7% annual growth compared to 4.34 million cubic meters produced in 2017.

Cement sales, including cement, clinker, and ready-mix concrete:

In Taiwan, the annual total revenue was NT\$17.9 billion in 2018, an on-year growth of 5.3% compared to NT\$17.0 billion in 2017. Adding revenues from Mainland China, the annual total revenue was NT\$92.5 billion, an on-year increase of 28.7% compared to NT\$71.9 billion in 2017.

Overall, the net income attributable to shareholders of the parent was NT\$21.18 billion, achieving 246% of the budget and representing an annual growth of NT\$13.58 billion or 179% compared to 2017.

The consolidated net income after tax was NT\$22.64 billion, achieving 205% of the budget and representing an annual growth of NT\$12.32 billion or 119% compared to 2017.

For 2019, we strive to achieve the targets of 57.44 million tons of clinker (including in-house RMC plants use) and cement in sales volume from Taiwan and Mainland China and 5.55 million cubic meters of RMC in sales volume.

Lastly, one of the best ways to sustain the Earth is recycling. Taiwan Cement has not only set targets for our cement business, but we are also trying to move across a wide range of industries to integrate with other technologies to expand our horizons and to do this quickly. This allows us to continue to expand our vision. However, because the cement industry faces misconceptions from many parts of society, our foremost task is to communicate clearly with the public of the changes in the cement industry and its contributions to building society and community.

In recent years, I personally also entered the field of the tourism and hospitality industry. This is a high-end cultural and creative industry based primarily on service. Learning so-called cultural creativity does not only refer to special literary and artistic creation, but it is also an attitude and a philosophy of management. It is the business that understands at the human level, people's feelings and desires. The hospitality industry insists on "taking Nature as the core belief" and persisting in the imagination of a better life. With this view, it is enough to teach any industry to become more humane.

The Cement Handicraft Workshop is also our new project. While still quite small in scale, it is extremely innovative. Cooperating with Hualien County Cultural Affairs Bureau, Taiwan Cement's Ho-Ping Cement Plant began hosting creative courses for elementary students, parents and community volunteers to let go of the stereotypes of cement by feeling and understanding cement up close. Participants start with mixing and stirring the cement, pouring cement into molds, shaking and removing the formed cement out of the mold and then painting it. We hope that the participants will get to know cement and understand that this is a material full of life. Not only does it breathe, but it is also warm. Cement can even be an element for creativity, such as creating cement pots for household plants. Cement is bright, lovely, and has the power to spark artistic creations. We're trying to show younger generations new understanding and impressions starting with small groups of people in different communities. Our objective is that perceptions of cement will gradually change. Taiwan Cement also began to promote these workshops in Mainland China.

It is like the Blue Magpie flying on a cement wall, let us feel life and feel the Spring.

Chairman Melsor My

#### 2018-2019 Awards

| Year |   | Awards  |
|------|---|---|
| 2019 | 1 | 2019 Green Leadership in Asia Responsible Entrepreneurship Awards   |
|      | 2 | 2019 Global Views Magazine 15th Annual CSR Awards – Model Award in Traditional Industry and Model Award in Environmental Sustainability   |
|      | 3 | 2019 Taipei Golden Eagle Micro-movie Festival: Best Film, Best Corporate Governance, Excellence in Creative Cinematography, Excellence in Original Script and three other awards for TCC Enterprise Promotional Film, The Future Is Worth It. |
| 2018 | 1 | BS 8001 Circular Economy, first cement company in the world to receive the certification.   |
|      | 2 | Two Stars in Waste Resource Management and Circular Economy Company (highest honor) in December from Environmental Protection Administration Executive Yuan   |
|      | 3 | 2018 Best Taiwan Global Brands Potential Star   |
|      | 4 | Social Inclusion, Circular Economy, Climate Leadership and four other awards from 2018 Taiwan Corporate Sustainability Awards   |
|      | 5 | 16th Annual China Cement Chemical Analysis: TCC (Guigang) Cement Limited, TCC Jingzhou Cement Company Limited, Scitus Luzhou Cement Co. and nine other companies of TCC Group.  |
|      | 6 | CommonWealth Magazine's 2018 Excellence in Corporate Social Responsibility: Top 1 in Manufacturing Industry, Top 17 in Large Enterprises  |
|      | 7 | twA+ from Taiwan Ratings  |

#### 2.1 Establishment

Date of establishment: May 1946
Date of establishment registration: 29 December 1950
Date of privatization: November 1954
Capital
Authorized capital NT\$70 billion
Paid-up capital: NT\$ 53,080,599,110

#### 2.2 TCC history

#### (1)About TCC

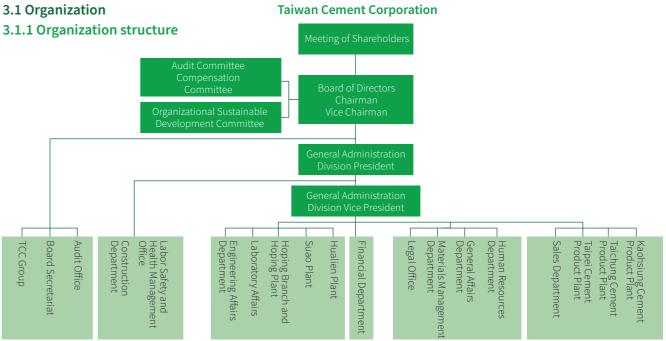
After Taiwan restoration, the government established a cement industry supervisory committee in April 1946 and took over the Taiwan Plant of Asano Semento Kabushiki Kaisha Asano Cement Co. Ltd. (the forerunner of Kaohsiung Plant), Taiwan Chemicals Co., Ltd. (the forerunner of the Suao Cement Plant), Southern Cement Co., Ltd. (forerunner of the Zhudong Plant, and the Songshan Workshop of Taiwan Cement Co., Ltd. (the forerunner of the Taipei Cement Plant). On May 1, 1946, Taiwan Cement Corporation (TCC) was officially established as a joint-venture between the former National Resources Commission of the Ministry of Economic Affairs (MOEA) and the former Taiwan Provincial Government. On January 1, 1951, the joint-venture was re-structured as an incorporated (public limited company, PLC). After the National Resources Commission was withdrawn in 1952, TCC was co-operated by the MORA and the Taiwan Provincial Government. After the government implemented the Land-to-the Tiller Program in 1953, TCC was then transformed from a state business into a private enterprise on November 11, 1954, with jurisdiction over the Kaohsiung, Suao, and Zhudong cement plants and the Taipei and Gushan cement product plants. On February 9, 1962, we were the first to support the government's capital securitization policy and became the first public company listed on the Taiwan Exchange.

It has been over six decades since our privatization. Over the last 50 years, apart from actively participating in major national infrastructure projects through which we made persistent growth, we are the best witness and walking evidence of the "Taiwan experience" for our involvement in Taiwan's social changes and economic development. The paid-capital has increased from NT\$270 million at the time of privatization to over NT\$53 billion today, up by over 100 times. In Taiwan, capacity expanded from 0.5 million tonnes to over 10 million tonnes today, up by more than 20 times. Sales volume rose from NT\$240 million to NT\$17.1 billion in 2018. All these achievements have made us an example of success of the government's privatization of state business.

Including affiliates, our scope of business covers the manufacture and sales of chemical engineering products, coal-fire and renewable energy generation plants, surface and inland transportation, production and sales of fire-retardant materials, undertaking of environmental engineering and pollution prevention contracts, and the production, service and sales of related products and equipment, and waste disposal. In 2018, the consolidated revenue was NT\$124.6 billion.

(2)Merger and acquisition activities in the most recent years until the report publication date: None.

(3)Instances in which a major quantity of shares in possession of directors or shareholders holding more than 10 per cent of stake in the company is transferred or otherwise changes hands; any change in managerial control; and any other matters of material significance that could affect organizational operations: None.



1. There are 19 branch plants and three distribution stations under the Taipei, Taichung, and Kaohsiung cement product plants. 2. There is a ready mixed concrete workshop in the Hualien Plant. 3. Gushan cement product plants are renamed as Kaohsiung cement product plant in 2018. 4. Construction Department is added in 2018.

#### 3.1.2 Functions and duties of departments

Under the Board of Directors (BOD) there are the Audit Committee, Compensation Committee, Organizational Sustainable Development Committee, Secretariat, TCC Group, and Audit Office. Their functions and duties are as follows:

(1) Secretariat: Custody of the Chairman's personal seal; preparation of board meetings; handling and coordination of clerical work, general affairs, and stock affairs; and custody of the seals of the General Affairs Division and CDO.

(2)TCC Group: Capturing and integration of group resources for sharing and demonstration of the scale of economy; standardization of regulations and systems within the group; sharing of successful experience and training; regular function audit; management consultancy and enquiry service within the group; other group-related business; improvement of management quality and reduction of costs; demonstration of group synergies and enhancement of overall competitiveness and profitability; and maximization of benefits for shareholders.

(3)Audit Office: Implementation of all major cycles of internal audits as per the annual audit program; supervision of the implementation and amendment of internal audit system of the organization and subsidiaries; proposition of improvement recommendations; and implementation of project investigation, follow-up, and improvements of anomalies.

Under the General Administration Division there are the Engineering Affairs Department, Laboratory Affairs, Sales Department, Financial Department, Human Resoures Department, Materials Management Department, Legal Office, General Affairs Department, Labor Safety and Health Management Department, and Construction Department. Their functions and duties are as follows:

(1)Engineering Affairs Department: Drawing up production plans; tracking, assistance, and evaluation of operational efficiency; renewal, maintenance, and improvement of mechanical and engineering (M&E) equipment; assistance with equipment procurement; planning, guidance; and tracking of engineering projects; supervision of environmental protection, industrial safety, total quality control, and quality assurance; investigation, study, assessment, planning, implementation and tracking construction and merger/restructuring projects in mainland China.

(2)Laboratory Affairs: Technical instructions of the manufacturing technology and quality control of cement and concrete; research and development of specialty cement, high-performance concrete, and energy-efficient technologies; development and promotion of substances from waste recycling; technical enquiries and customer affairs before and after cement and concrete sales.



(3)Sales Department: Drawing up of product sales plans; product domestic and export sales and storage; and supervision and evaluation of cement distribution stations.

(4)Financial Department: Processing and auditing routine accounting affairs and fund dispatch; cash management and financial planning; budget control and statement operational analysis; implementation and operation of related projects; supervision of subsidiaries; and handling of investor relations.
(5)Human Resources Department: Selection, education, employment, and retention of organizational employees; management and supervision of matters relating to human resources of each unit; and employee benefits and labor-management (employer-employee) relations.

(6) Materials Management Department: Contracting of the production equipment procurement, civil engineering contracts, production ingredients and materials procurement; and management and dispatch of the materials warehouse.

(7)Legal Office: Preparation, revision and approval of legal documents; provision of legal advice; handling of litigation/non-litigation incidents; legal risk control and other legal-related matters.

(8)General Affairs Department: Administering of general and administrative affairs unrelated to production; building repair; and planning, implementation and supervision of land and other assets.

(9)Labor Safety and Health Management Office: Administering the safety and health affairs of all employees within the organization.

(10)Construction Department: responsible for the planning and development of lands and construction projects of the Group.

#### Major services of subordinate organizations:

(1) Hoping Branch and Hoping Plant, Suao Plant, Hualian Plant: Cement manufacture.

(2) Taipei, Taichung, and Kaohsiung cement product plants (including three distribution stations): Manufacture and sales of ready mixed concrete and management of distribution stations.

#### 3.2 Profile of directors, CEO, vice presidents, assistant vice presidents, department heads, and branch heads

#### 3.2.1 Information of Directors (22nd Round: From January 1, 2018 to June 21, 2018, and the re-election was on June 22, 2018, in the Shareholders' Meeting)

April 14, 2018: book closure date for AGM

|                                  |  |            |                                |         |                    |                             |                |                          |                    |                               |                |                               |                |  |   | 7 pm 1-1, 20  | 10. DOOK Closul             | re date for AG   |
|----------------------------------|--|------------|--------------------------------|---------|--------------------|-----------------------------|----------------|--------------------------|--------------------|-------------------------------|----------------|-------------------------------|----------------|--|---|---|-----------------------------|------------------|
| Title Nationalit<br>or<br>Regist | y Name   | Gender     | r Elected<br>(inaugur<br>ated) | Tenure  | initial<br>elected | Shareholdir<br>time of elec | ted office     | Current<br>sharehold     |                    | Current share<br>of spouse/mi | inor children  | Shareholding<br>the name of a | third party    | Education and experience /   | Concurrent positions<br>in this and other companies   | Other office<br>supervisor<br>who is a sp<br>within the | rs of the co<br>oouse or re | mpany<br>lative  |
| ration<br>place                  |  |            | Date                           |         | office             |                             | Propo<br>rtion |                          | Propo<br>rtion     |                               | Propo<br>rtion |                               | Propo<br>rtion |  |   | the Civil C   |                             | Juniaci          |
|                                  |  |            |                                |         |                    | Quantity                    | (%)            | Quantity                 | (%)                | Quantity                      | (%)            | Quantity                      | (%)            |  |   | Title   | Name                        | Rela<br>tionship |
| Chairman ROC                     | Representative of<br>Fu Pin Investment<br>Co., Ltd.:<br>Chang An Ping                      | Male       | 2015/6/18                      | 3 years | 2003/6/26          | 62,688,346<br>156,573       | 1.70<br>0.00   | 68,957,180<br>172,230    | 1.35<br>0.00       | -<br>3,365,798                | 0.07           | NA<br>NA                      | NA<br>NA       | M.B.A., School of Business Administra-<br>tion, New York University, 1976<br>Chairman, International CSRC<br>Investment Holdings Co., Ltd<br>Chairman, Taiwan Prosperity Chemical<br>Corporation | Chairman, Ho-Ping Power Company; Chairman, E-One Moli Energy Corporation; Director, Ta-Ho Maritime Corporation; Director, TCC Information Systems Corporation; Chairman, TCC International Holding Limited; Independent Director, Synnex Technology International Corporation; Director, CTCI Corporation; Managing Director, O-Bank; Director, Taiwan Stock Exchange Corporation | NA  | NA                          | NA               |
| Director Hong<br>Kong            | Representative of<br>Heng Qiang<br>Investment Co., Ltd.:<br>Koo, Kung-Yi                   | Male       | 2015/6/18                      | 3 years | 2003/6/26          | 71,487,931                  | 1.94           | 90,991,540<br>250,000    | 1.78<br>0.00       | -                             | -              | NA<br>NA                      | NA<br>NA       | MBA, The Wharton School of University of<br>Pennsylvania<br>Vice President, Morgan Stanley<br>Investment Banking Department  | Chairman, International CSRC Investment Holdings Co., Ltd<br>Chairman, Taiwan Prosperity Chemical Corporation;<br>Director, E-One Moli Energy Corporation;<br>Director, Ho-Ping Power Company;<br>Director, TCC International Holding Limited   | .; NA   | NA                          | NA               |
| Director ROC                     | International CSRC<br>Investment Holdings<br>Co., Ltd<br>Kenneth C.M. Lo                   | Male       | 2015/6/18                      | 3 years | 2002/6/18          | 83,777,716                  | 1.27           | 92,155,487<br>*2,000,000 | 1.80<br>*1.00<br>- | -                             | -              | NA<br>NA                      | NA<br>NA       | M.A. in Finance, The University of<br>Alabama  | Chairman, O-Bank and etc.   | NA  | NA                          | NA               |
| Director ROC                     | Representative<br>of Heng Qiang<br>Investment Co., Ltd.:<br>Representative:<br>Yu Tzun-Yen | Male       | 2015/6/18                      | 3 years | 2003/6/26          | 71,487,931                  | 1.94           | 90,991,540               | 1.78               | -<br>-                        | -              | NA<br>NA                      | NA<br>NA       | Harvard Business School, USA, BS,<br>Electrical Engineering, National Taiwan<br>University   | Chairman, CTCI Corporation  | NA  | NA                          | NA               |
| Director ROC                     | He Feng Investment<br>Co., Ltd. Representativ<br>Wang Por-Yuan                             | Male<br>e: | 2015/6/18                      | 3 years | 2012/6/21          | 36,762,616                  | 1.00           | Note<br>-                | Note<br>-          | Note<br>-                     | Note<br>-      | NA<br>NA                      | NA<br>NA       | Ph.D., Carnegie Mellon University, USA<br>Chairman, Sercomm Corporation<br>Chairman, Pacific Venture Partners<br>Chairman, K.T. Li Foundation of<br>Development of Science and Technology        | Chairman, Sercomm Corporation; Director, Prosperity Dielectrics Co., Ltd.; Independent Director, UPC Technology Corporation   | NA  | NA                          | NA               |
| Director ROC                     | Chinatrust Investment<br>Co., Ltd.<br>Representative:<br>Jennifer Lin, Esq.                | Female     | 2015/6/18                      | 3 years | 2003/6/26          | 120,047,530                 | 3.25           | 137,608,757<br>400,000   | 2.69               | -                             | -              | NA<br>NA                      | NA<br>NA       | LLB, National Taiwan University<br>LLM, Harvard Law School   | Managing Partner, Tsar & Tsai Law Firm;<br>Chairman, NTU Law Foundation   | NA  | NA                          | NA               |
| Director ROC                     | Ching Yuan Investmen<br>Co., Ltd.:<br>Representative:<br>Jian-Dong Chen                    | t Male     | 2015/6/18                      | 3 years | 2009/6/19          | 2,636,402<br>86,921         | 0.07           | 2,900,042<br>99,328      | 0.06               | -                             | -              | NA<br>NA                      | NA<br>NA       | MA, Department of Banking and Finance,<br>Tamkang University   | Director, Ching Yuan Investment Co., Ltd.; Director, Tong De Investment Co., Ltd.; Director &CEO, Hsin Kao Gas Co., Ltd.  | NA  | NA                          | NA               |
| Director ROC                     | Shinkong Synthetic<br>Fibers Corporation<br>Representative:<br>Eric T. Wu                  | Male       | 2015/6/18                      | 3 years | 2003/6/26          | 9,554,654<br>60,427         | 0.26           | 10,510,119<br>66,469     | 0.21               | - 664,589                     | 0.01           | NA<br>NA                      | NA<br>NA       | S.J.D., Harvard Law School   | Chairman, Shinkong Synthetic Fibers Corporation;<br>Chairman, Shinkong Materials Technology Co., Ltd.;<br>Chairman, UBright Optronics Corporation;<br>Chairman, TacBright Optronics Corporation   | NA  | NA                          | NA               |

|   |  |        |  |             |                                |                             |              |   |                                |                             |                                      |                            |              |  |  | April 14, 2          | :018: DOOK CIOS                             | ure date for AGN  |
|---|--|--------|--|-------------|--------------------------------|-----------------------------|--------------|---|--------------------------------|-----------------------------|--------------------------------------|----------------------------|--------------|--|--|----------------------|---|-------------------|
| Title Nationality<br>or<br>Regist<br>ration | y Name   | Gender | r Elected<br>(inaugur<br>ated)<br>Date | ini<br>ele  | te of<br>itial<br>cted<br>fice | Shareholdii<br>time of elec |              | e Current<br>e shareholdi                     |                                | Current shar<br>of spouse/m | reholdings<br>inor children<br>Propo | Shareholdir<br>the name of |              | Education and experience<br>y  | Concurrent positions in this and other companies   | supervis<br>who is a | icers, directors of the cospouse or related | ompany<br>elative |
| place                                       |  |        |  |             |                                | Quantity                    | rtion<br>(%) | Quantity                                      | rtion<br>(%)                   | Quantity                    | rtion<br>(%)                         | Quantity                   | rtion<br>(%) |  |  | Title                | Name  | Rela<br>tionship  |
| Director ROC                                | Chia Hsin Cement<br>Corporation<br>Representative:<br>Chang Kang-Lung,<br>Jason            | Male   | 2015/6/18                              | 3 year 2012 | 2/6/21                         | 23,105,050<br>190,000       | 0.63<br>0.01 | 193,888,706                                   | 3.80                           | -<br>214,000                | 0.01                                 | NA<br>NA                   | NA<br>NA     | MS, Management Studies, Massachusetts Institute of Technology  | Chairman of Chia Hsin Cement Corporation and Chia Hsin International Co., Ltd.   | NA                   | NA  | NA<br>NA          |
| Director ROC                                | Goldsun Develop-<br>ment & Construction<br>Co., Ltd. Representa-<br>tive: Ming-Sheng Lin   |        | 2015/6/18                              | 3 year 2000 | )/5/30                         | 14,078,750                  | 0.38         | 14,000,000                                    | 0.27                           | -                           | -                                    | NA<br>NA                   | NA<br>NA     | SJD, Hastings College of Law, University of California, USA  | Vice President, SIGMU Group;<br>Vice Chairman, Taiwan Secom Co., Ltd.  | NA                   | NA  | NA                |
| Director ROC                                | Xin Hope Investment<br>Co., Ltd. Representa-<br>tive: CHI-WEN CHANG                        |        | 2015/6/18                              | 3 year 2000 | )/5/30                         | 10,701,572<br>2,010,027     | 0.29<br>0.05 | 15,009,729<br>2,211.019                       | 0.29<br>0.04                   | -                           | -                                    | NA<br>NA                   | NA<br>NA     | Master's Degree in Accountancy and<br>Master's Degree of Administration in<br>California State University, Fresno  | Director & CEO, Xin Hope Investment Co., Ltd. Lecturer/Adjunct Faculty San Jose State University, University of San Francisco, Golden Gate University  | NA                   | NA  | NA                |
| Director ROC                                | Sishan Investment<br>Co., Ltd. Representa-<br>tive: Lin Nan-Chou                           | Male   | 2015/6/18                              | 3 year 2003 | 3/6/26                         | 7,525,603<br>2,180,642      | 0.20<br>0.06 | 8,278,163<br>*259,300<br>2,508,706<br>*78,581 | 0.16<br>*0.13<br>0.05<br>*0.04 | -                           | -                                    | NA<br>NA                   | NA<br>NA     | MBA, La Trobe University, Melbourne,<br>Australia.   | Chairman of Sishan Investment Co., Ltd.  | NA                   | NA  | NA                |
| Director ROC                                | Representative of Fu<br>Pin Investment Co.,<br>Ltd.: Representative:<br>Hsieh Chi-Chia     | Male   | 2016/6/22                              | 1 year 2003 | 8/6/26                         | 62,688,346<br>400,000       | 1.70<br>0.01 | 68,957,180<br>440,000                         | 1.35<br>0.01                   | -<br>-                      | -                                    | NA<br>NA                   | NA<br>NA     | ty of California Santa Clara, USA.   | Chairman, Microelectronics Technology Inc.; Chairman, Jupiter Network Corporation; Chairman, Jupiter Technology (Wuxi) Co., Ltd. Chairman, Welltop Technology Co., Ltd.; Chairman, IQE Taiwan Corporation; Director, Sasson Capital Corporation; Director, Advanced Wireless Semiconductor Company, Independent Director, AcBel Polytech Inc.; Independent Director, Innolux Corporation; Director, Bright LED Electronics Corp; Director, KoBrite Taiwan Corporation; Director, Bright Crystal Company  | NA                   | NA  | NA                |
| Director ROC                                | Representative of<br>Heng Qiang<br>Investment Co., Ltd.:<br>Representative: Cher<br>Chi-Te |        | 2016/6/22                              | 1 year 2003 | 8/6/26                         | 71,487,931                  | 1.94         | 90,991,540                                    | 1.78                           | -<br>5,027                  | 0.00                                 | NA<br>NA                   | NA<br>NA     | MBA, University of California Santa<br>Clara, USA  | Director, Chia Hsin Cement Corporation; Director (corporate representative), Chia Hsin Property Management and Development Corporation; Chairman, Ruihui Enterprise Limited; Chairman, Chien Hwei Investment Co., Ltd.; Chairman (corporate representative), Rock Publishing International; Director, Silver Shadow Holdings Co., Ltd.; Director, Golden Canyon Co., Ltd.; Director, Chien Kuo Asia Co., Ltd.; Shun Long (Hong Kong) Co., Ltd.; Chairman (corporate representative), Chien Kuo Building Co., Ltd.; Anping Housing Co., Ltd.; Chairman, Chien Huei Cultural & Educational Foundation; Chairman, Chien Kuo Foundation for Arts and Culture |                      | NA  | NA                |
| Director USA                                | C. F. Koo Foundation<br>Representative Davic<br>Carr Michael                               |        | 2016/6/22                              | 1 year 2016 | 5/6/22                         | 2,308,909                   | 0.06         | 2,539,799                                     | 0.05                           | -                           | -                                    | NA<br>NA                   | NA<br>NA     | BA in Economics Magna cum Laude,<br>Harvard University<br>MBA, Stanford University Graduate<br>School of Business, USA<br>Senior Partner & Managing Director,<br>Boston Consulting Group, USA; |  | NA                   | NA  | NA                |

| Title Nationa<br>or<br>Regis     |                | Gender | Elected To<br>(inaugur<br>ated) | enure Date o<br>initial<br>elected |   |                       | Current<br>sharehold |                       | urrent share<br>spouse/min | holdings<br>or children | Shareholdir<br>the name of | ngs in<br>f a third party | Education and experience  | Concurrent positions in this and other companies   | supervis<br>who is a            | icers, direc<br>ors of the co<br>spouse or r | ompany<br>elative          |
|----------------------------------|----------------|--------|---------------------------------|------------------------------------|---|-----------------------|----------------------|-----------------------|----------------------------|-------------------------|----------------------------|---------------------------|---|--|---------------------------------|--|----------------------------|
| ration<br>place                  | n              |        | Date                            | office                             |   | Propo<br>rtion<br>(%) | Quantity             | Propo<br>rtion<br>(%) | Quantity                   | Propo<br>rtion<br>(%)   | Quantity                   | Propo<br>rtion<br>(%)     |   |  | within th<br>the Civil<br>Title | e 2nd degr<br>Code<br>Name                   | ee under<br>Rela<br>tionsh |
| Indepen- ROC dent Director       | Yu-Cheng Chiao | Male   | 2015/6/18 3                     | years 2012/6/21                    | - |                       |                      |                       |                            |                         | NA                         | NA                        | MS, Electronic Engineering, University of<br>Washington, USA<br>BS, Communication Engineering Department,<br>National Chiao Tung University, Taiwan<br>Chairman, Walsin Lihwa Corporation   | Chairman/CEO, Winbond Electronics Corp.; Chairman, Nuvoton Technology Corp.; Chairman, Walsin Lihwa Corporation; Chairman, Walsin Technology Corporation; Chairman, Jin Cheng Construction Co., Ltd.; Director, Walsin Lihwa Holdings Limited; Director, Concord Industries Ltd.; Director, Walsin Specialty Steel Ltd.; Director, United Industrial Gases Co., Ltd.; Director, Song Yung Investment Co., Ltd.; Supervisor, MiTAC Holdings Corporation; Manager, Goldbond LLC; Independent Director and member of Compensation Committee, Synnex Technology International Corporation, | NA                              | NA   | NA                         |
| Indepen- ROC<br>dent<br>Director | Victor Wang    | Male   | 2015/6/18 3                     | years 2013/6/21                    | - | -                     | -                    | -                     | -                          | -                       | NA                         | NA                        | BA in Accounting, Soochow University, Taiwan<br>EMBA, National Taiwan University, Taiwan<br>Chief Operations Officer & Vice Chairman of<br>Auditing Service Division, Deloitte Taiwan   | Director, Chilisin Electronics Corporation; Director, Yageo Corporation; Supervisor, DIVA Laboratories. Ltd.; Independent Director, Taiwan Navigation Co., Ltd.; Independent Director, DACIN Construction Co., Ltd.  | NA                              | NA   | NA                         |
| Indepen- ROC<br>dent<br>Director | Jhen-Ming Yeh  | Male   | 2016/6/22 1                     | years 2016/6/22                    | - | -                     | -                    | -                     | -                          | -                       | NA                         | NA                        | Bachelor of Commerce Major in Accounting, National Cheng-Kung University, Taiwan Independent Director, Ta-Ho Maritime Corporation Independent Director, Ho-Ping Power Company Advisor, Deloitte Taiwan  | CPA, J. M. Yeh CPA Firm  | NA                              | NA   | NA                         |
| Indepen- ROC<br>dent<br>Director | Sheng Chin Jen | Male   | 2017/6/28 1                     | years 2017/6/28                    | - | -                     | -                    | -                     | -                          | -                       | NA                         | NA                        | Ph.D. in Political Science, Northwestern University, USA Minister, Council for Cultural Affair (now Ministry of Culture), Executive Yuan, ROC. CEO, Republic of China (Taiwan) Centenary Foundation Chairperson, Research, Development and Evaluation Commission, Taipei City Government CEO, The 21st Summer Deaflympics Professor, Department of Political Science, Soochow University, Taiwan Host of TV programs "Discovery of Taiwan," and "Interpretation of Era" by ERA TV Station Consultant, Poll Center of TVBS Member of the Editing Committee, Issues & Studies | Chairman, FDC International Hotels Corporation,<br>Chairman, LDC ITALY   | NA                              | NA   | NA                         |

<sup>\*</sup> refers to the preferred shares in the table.

Note: He-Feng Investment Corp. and He-Po Investment Corp have been merged on January 1, 2019, and He-Feng dissoved; therefore no share is disclosed.

#### Information of Directors (23rd Round re-election was on the Shareholders' Meeting of 2018: June 22, 2018 to March 31, 2019.)

April 14, 2018: book closure date for AGM

| Title N          | Iationalit<br>or<br>Regist | y Name  | Gender     | Elected<br>(inaugur<br>ated) | Tenure  | Date of initial elected | Shareholdii<br>time of elec |                       |   |                       | Current shar<br>of spouse/m | U                     | Shareholdin | ~                     | Education and experience  | Concurrent positions in this and other companies  | supervis<br>who is a   | icers, directors of the cosposie or re | ompany<br>elative |
|------------------|----------------------------|---|------------|------------------------------|---------|-------------------------|-----------------------------|-----------------------|---|-----------------------|-----------------------------|-----------------------|-------------|-----------------------|---|---|------------------------|--|-------------------|
|                  | ration<br>place            |   |            | Date                         |         | office                  | Quantity                    | Propo<br>rtion<br>(%) | Quantity                                      | Propo<br>rtion<br>(%) | Quantity                    | Propo<br>rtion<br>(%) | Quantity    | Propo<br>rtion<br>(%) |   |   | within th<br>the Civil | e 2nd degro<br>Code<br>Name            | ee under<br>Rela  |
| Chairman         | ROC                        | Chai Hsin R.M.C.<br>Corporation<br>Chang An Ping                                | Male       | 2018/6/22                    | 3 years | 2018/6/22               |                             | 0.06                  | 2,699,216                                     |                       | 3,356,798                   | -                     | NA<br>NA    | NA<br>NA              | M.B.A., School of Business Administration, New York<br>University, 1976<br>Chairman, International CSRC Investment Holdings<br>Co., Ltd<br>Chairman, Taiwan Prosperity Chemical Corporation | Chairman, Ho-Ping Power Company; Chairman, E-One Moli Energy Corporation; Director, Ta-Ho Maritime Corporation; Chairman, TCC International Holding Limited; Direcor, TCC Information Systems Corporation Independent Director, Synnex Technology International Corporation; Director, CTCI Corporation; Managing Director, O-Bank; Director, Taiwan Stock Exchange Corporation | NA                     | NA                                     | NA NA             |
| Vice<br>Chairman | HONG<br>KONG               | Tai Ho Farming Co.,<br>Ltd.<br>Koo, Kung-Yi                                     | Male       | 2018/6/22                    | 3 years | 2018/6/22               | 4,889,281                   | 0.12                  | 5,378,209<br>250,000                          |                       | -                           | -                     | NA<br>NA    | NA<br>NA              | MBA, The Wharton School of University of<br>Pennsylvania<br>Vice President, Morgan Stanley Investment Banking<br>Department   | Chairman, International CSRC Investment Holdings Co., Ltd.;<br>Chairman, Taiwan Prosperity Chemical Corporation;<br>Chairman, E-One Moli Energy Corporation;<br>Director, Ho-Ping Power Company;<br>Director, TCC International Holding Limited   | NA                     | NA                                     | NA                |
| Director         | ROC                        | Representative of C. I<br>Koo Foundation: Li,<br>Jong-Peir                      | F. Male    | 2018/6/22                    | 3 years | 2016/6/22               | 2,308,909                   | 0.05                  | 2,539,799<br>350,000                          | 0.05<br>0.01          | -                           | -                     | NA<br>NA    | NA<br>NA              | MS in Information Technology Management, John Hopkins University President of HSBC (Taiwan) Commercial Bank and President, Taiwan, HSBC   | Chairman, Ta-Ho Maritime Corporation; Chairman, TCC Information Systems Corporation; Director, Taiwan Prosperity Chemical Corporation; Director, Ho-Ping Power Company; Director, E-One Moli Energy Corporation; Independent Director, TransGlobe Life Insurance Inc.   | NA                     | NA                                     | NA                |
| Director         | ROC                        | Chia Hsin Cement<br>Corporation<br>Representative:<br>Chang Kang-Lung,<br>Jason | Male       | 2018/6/22                    | 3 years | 2012/6/21               | 176,262,460<br>190,000      | 4.15<br>0.00          | 193,888,706<br>-                              | 5 3.80                | -<br>214,000                | -<br>0.01             | NA<br>NA    | NA<br>NA              | MS, Management Studies, Massachusetts Institute of<br>Technology  | Chairman of Chia Hsin Cement Corporation and Chia Hsin<br>International Co., Ltd.   | NA                     | NA                                     | NA                |
| Director         | ROC                        | Shinkong Synthetic<br>Fibers Corporation<br>Representative: Eric T<br>Wu        | Male<br>T. | 2018/6/22                    | 3 years | 2003/6/26               | 9,554,654<br>60,427         | 0.23<br>0.00          | 10,510,119<br>66,469                          | 0.21<br>0.00          | -<br>664,589                | 0.01                  | NA<br>NA    | NA<br>NA              | S.J.D., Harvard Law School  | Chairman, Shinkong Synthetic Fibers Corporation;<br>Chairman, Shinkong Materials Technology Co., Ltd.;<br>Chairman, UBright Optronics Corporation;<br>Chairman, TacBright Optronics Corporation   | NA                     | NA                                     | NA                |
| Director         | ROC                        | Xin Hope Investment<br>Co., Ltd.<br>Representative:<br>CHI-WEN CHANG            | Male       | 2018/6/22                    | 3 years | 2000/5/30               | 10,701,572<br>2,010,027     | 0.25<br>0.05          | 15,009,729<br>2,211,029                       |                       | -                           | -                     | NA<br>NA    | NA<br>NA              | Master's Degree in Accountancy and Master's Degree of Administration in California State University, Fresno   | Director & CEO, Xin Hope Investment Co., Ltd. Lecturer/Adjunct Faculty San Jose State University, University of San Francisco, Golden Gate University   | NA                     | NA                                     | NA                |
| Director         | ROC                        | Sishan Investment Co<br>Ltd.<br>Representative: Lin<br>Nan-Chou                 | o., Male   | 2018/6/22                    | 3 years | 2003/6/22               | 7,525,663<br>2,280,642      | 0.18                  | 8,278,163<br>*259,300<br>2,508,706<br>*78,581 | *0.13<br>0.05         | -                           | -                     | NA<br>NA    | NA<br>NA              | MBA, La Trobe University, Melbourne, Australia.   | Chairman of Sishan Investment Co., Ltd.   | NA                     | NA                                     | NA                |
| Director         | ROC                        | International CSRC<br>Investment Holdings<br>Co., Ltd<br>Kenneth C.M. Lo        |            | 2018/6/22                    | 3 years | 2002/6/18               | 83,777,716                  | 1.97                  | 92,155,487<br>*2,000,000<br>-                 | *1.00                 | -                           | -                     | NA<br>NA    | NA<br>NA              | M.A. in Finance, The University of Alabama  | Chairman, O-Bank and etc.   | NA                     | NA                                     | NA                |

|                        |   |   |   |                             |                    |                        |      |                             |                     |                             |          |  |  | -                       |   | ire date for AGM  |
|------------------------|---|---|---|-----------------------------|--------------------|------------------------|------|-----------------------------|---------------------|-----------------------------|----------|--|--|-------------------------|---|-------------------|
| or<br>Regist<br>ration |   | Gender Elected Ten<br>(inaugur<br>ated)<br>Date | ure Date of<br>initial<br>elected<br>office | Shareholding time of electe | ed office<br>Propo | shareholdi             |      | Current shar<br>of spouse/m | inor children Propo | Shareholding<br>the name of |          | Education and experience   | Concurrent positions in this and other companies   | superviso<br>who is a s | cers, directors of the compose or re<br>spouse or re<br>a 2nd degre<br>code | ompany<br>elative |
| place                  |   |   |   | Quantity                    | rtion<br>(%)       |                        | (%)  | Quantity                    | rtion<br>(%)        | Quantity                    | (%)      |  |  | Title                   | Name  | Rela<br>tionship  |
| Director ROC           | Chung Cheng Develop-<br>ment Investment Co., Ltd.<br>Representative: Yu<br>Tzun-Yen       | Male 2018/6/22 3 ye                             | ears 2018/6/22                              | 22,699,527                  | 0.53               | 24,969,479<br>*782,130 |      | -                           | -                   | NA<br>NA                    | NA<br>NA | Harvard Business School, USA, BS,<br>Electrical Engineering, National<br>Taiwan University;  | Chairman, CTCI Corporation   | NA                      | NA  | NA                |
| Director ROC           | Chia Hsin Cement<br>Corporation<br>Representative: Chen<br>Chi-Te                         | Male 2018/6/22 3 ye                             | ears 2012/6/21                              | 176,262,460                 | 4.15               | 193,888,706            | 3.80 | -<br>5,027                  | - 0.00              | NA<br>NA                    | NA<br>NA | MBA, University of California Santa<br>Clara, USA<br>MBA, University of California Santa<br>Clara, USA   | Director, Chia Hsin Cement Corporation; Director (corporate representative), Chia Hsin Property Management and Development Corporation; Chairman, Ruihui Enterprise Limited; Chairman, Chien Hwei Investment Co., Ltd.; Chairman (corporate representative), Rock Publishing International; Director, Silver Shadow Holdings Co., Ltd.; Director, Golden Canyon Co., Ltd.; Director, Chien Kuo Asia Co., Ltd.; Director, Shun Long (Hong Kong) Co., Ltd.; Chairman (corporate representative), Chien Kuo Building Co., Ltd.; Anping Housing Co., Ltd.; Chairman, Chien Huei Cultural & Educational Foundation; Chairman, Chien Kuo Foundation for Arts and Culture | NA                      | NA  | NA                |
| Director ROC           | Representative of Fu Pin<br>Investment Co., Ltd.:<br>Representative: Wang<br>Por-Yuan     | Male 2018/6/22 3 ye                             | ears 2003/6/26                              | 62,688,346<br>-             | 1.48               | 68,957,180             | 1.35 | -                           | -<br>-              | NA<br>NA                    | NA<br>NA | Ph.D., Carnegie Mellon University,<br>USA<br>Chairman, Sercomm Corporation<br>Chairman, Pacific Venture Partners<br>Chairman, K.T. Li Foundation of<br>Development of Science and<br>Technology  | Chairman, Sercomm Corporation; Director, Prosperity Dielectrics Co., Ltd.; Independent Director, UPC Technology Corporation  | NA                      | NA  | NA                |
| Director ROC           | Representative of Fu Pin<br>Investment Co., Ltd.:<br>Representative: Hsieh<br>Chi-Chia    | Male 2018/6/22 3 ye                             | ears 2003/6/26                              | 62,688,346<br>400,000       | 1.48<br>0.01       | 68,957,180<br>440,000  |      | -                           | -                   | NA<br>NA                    | NA<br>NA | Ph.D. in Electrical Engineering, University of California Santa Clara, USA. Chairman, Microelectronics Technology Inc.   | Chairman, Microelectronics Technology Inc.; Chairman, Jupiter Network Corporation; Chairman, Jupiter Technology (Wuxi) Co., Ltd. Chairman, Welltop Technology Co., Ltd.; Chairman, IQE Taiwan Corporation; Director, Sasson Capital Corporation; Director, Advanced Wireless Semiconductor Company, Independent Director, AcBel Polytech Inc.; Independent Director, Innolux Corporation; Director, Bright LED Electronics Corp.; Director, KoBrite Taiwan Corporation; Director, Bright Crystal Company   | NA                      | NA  | NA                |
| Director ROC           | Representative of Heng<br>Qiang Investment Co.,<br>Ltd.:<br>Representative: Chien,<br>Wen | Male 2018/6/22 3 ye                             | ears 2003/6/26                              | 82,719,582<br>-             | 1.95               | 90,991,540             | 1.78 | -                           | -                   | NA<br>NA                    | NA<br>NA | MBA, The Wharton School of<br>University of Pennsylvania<br>CFO, Winbond Electronics Corp.<br>Supervisor, Winbond Electronics<br>Corp.<br>General Manager, Cathay Securities<br>Investment Trust | Director, International CSRC Investment Holdings Co., Ltd;<br>Director, Chinatrust Investment Co., Ltd.<br>Supervisor, Ta-Ho Maritime Corporation  | NA                      | NA  | NA                |
| Director ROC           | Chinatrust Investment Co<br>Ltd. Representative:<br>Chun-Ying, Liu                        | , Fe 2018/6/22 3 ye<br>male                     | ears 2003/6/26                              | 125,098,870                 | 2.95               | 137,608,757            | 2.69 | -                           | -<br>-              | NA<br>NA                    | NA<br>NA | EMBA, EMBA Program, Business<br>School, National Taiwan University<br>LLM, Northwestern University<br>LLB, National Taiwan University  | Partner, Tsar and Tsai Law Firm;<br>Independent Director, Jarlly Technology Co., Ltd.  | NA                      | NA  | NA                |

| Title N                     | ationalit<br>or<br>Regist | y Name   | Gender | Elected (inaugur ated) | Tenure  | Date of initial elected |                      | oldings at the<br>elected office |            | dings                 |          | hareholdings<br>e/minor children | Sharehold<br>the name | •                     | Education and experience  | Concurrent positions in this and other companies   | who is a spouse or relative within the 2nd degree up the Civil Code  Title Name Retion NA | ompany<br>elative |                              |
|-----------------------------|---------------------------|--|--------|------------------------|---------|-------------------------|----------------------|----------------------------------|------------|-----------------------|----------|----------------------------------|-----------------------|-----------------------|---|--|---|-------------------|------------------------------|
|                             | ration<br>place           |  |        | Date                   |         | office                  | Quant                | Propo<br>rtion<br>ity (%)        | Quantity   | Propo<br>rtion<br>(%) | Quantity | Propo<br>rtion<br>(%)            | Quantity              | Propo<br>rtion<br>(%) |   |  | the Civil   | Code              | ree under<br>Rela<br>tionshi |
| Director                    | ROC                       | Representative of<br>Heng Qiang Investme<br>Co., Ltd.:<br>Chih-Chung, Tsai |        | 2018/6/22              | 3 years | 2003/6/26               | 82,719, <sup>t</sup> | 582 1.95<br>-                    | 90,991,540 | 1.78                  | -<br>-   | -                                | NA<br>NA              | NA<br>NA              | MBA, Bernard M.Baruch College, CUNY<br>Senior Consultant, Taipei Branch, Natixis<br>Director, Barclays Capital Securities (Taiwan) Co., Ltd<br>CFO, Taipei Branch, Barclays Bank  | President, Chinatrust Investment Co., Ltd.;<br>Director, He-Po Investment Co., Ltd.;<br>Director, Sheng-Kai Investments Co., Ltd.  | NA  | NA                | NA                           |
| Indepen<br>dent<br>Director | ROC                       | Yu-Cheng Chiao   | Male   | 2018/6/22              | 3 years | 2012/6/21               | -                    | -                                | -          | -                     | -        |                                  | NA                    | NA                    | MS, Electronic Engineering, University of Washington, USA BS, Communication Engineering Department, National Chiao Tung University, Taiwan Chairman, Walsin Lihwa Corporation   | Chairman/CEO, Winbond Electronics Corp.; Chairman, Nuvoton Technology Corp.; Chairman, Walsin Lihwa Corporation; Chairman, Walsin Technology Corporation; Chairman, Jin Cheng Construction Co., Ltd.; Director, Walsin Lihwa Holdings Limited; Director, Concord Industries Ltd.; Director, Walsin Specialty Steel Ltd.; Director, United Industrial Gases Co., Ltd.; Director, Song Yung Investment Co., Ltd.; Supervisor, MiTAC Holdings Corporation; Manager, Goldbond LLC; Independent Director and member of Compensation Committee, Synnex Technology International Corporation, | NA  | NA                | NA                           |
| Indepen<br>dent<br>Director | ROC                       | Victor Wang  | Male   | 2018/6/22              | 3 years | 2013/6/21               | -                    | -                                | -          | -                     | -        | -                                | NA                    | NA                    | BA in Accounting, Soochow University, Taiwan<br>EMBA, National Taiwan University, Taiwan<br>Chief Operations Officer & Vice Chairman of Auditing<br>Service Division, Deloitte Taiwan   | Director, Chilisin Electronics Corporation; Director, Yageo Corporation; Supervisor, DIVA Laboratories. Ltd.; Independent Director, Taiwan Navigation Co., Ltd.; Independent Director, DACIN Construction Co., Ltd.  | NA  | NA                | NA                           |
| Indepen<br>dent<br>Director | ROC                       | Sheng Chin Jen   | Male   | 2018/6/22              | 3 years | 2017/6/28               | -                    | -                                | -          | -                     | -        | -                                | NA                    | NA                    | Ph.D. in Political Science, Northwestern University, USA Minister, Council for Cultural Affair (now Ministry of Culture), Executive Yuan, ROC. CEO, Republic of China (Taiwan) Centenary Foundation Chairperson, Research, Development and Evaluation Commission, Taipei City Government CEO, The 21st Summer Deaflympics Professor, Department of Political Science, Soochow University, Taiwan Host of TV programs "Discovery of Taiwan," and "Interpretation of Era" by ERA TV Station Consultant, Poll Center of TVBS Member of the Editing Committee, Issues & Studies | Independent Director, Taiwan Prosperity Chemical<br>Corporation;<br>President, L'Hotel de Chine Group;<br>Chairman, FDC International Hotels Corporation,<br>Chairman, LDC ITALY   | NA  | NA                | NA                           |

| Title Nat                     | or                       | y Name                    | Gender     | (inaugur      | Tenure    | initial           | Shareholdings<br>time of electe |                | Current<br>shareholdi |                | Current share<br>of spouse/mi | U              | Shareholdi<br>the name o | U              | Education and experience   | Concurrent positions in this and other companies  | supervis               | ficers, direc<br>ors of the co<br>spouse or re | ompany           |
|-------------------------------|--------------------------|---------------------------|------------|---------------|-----------|-------------------|---------------------------------|----------------|-----------------------|----------------|-------------------------------|----------------|--------------------------|----------------|--|---|------------------------|--|------------------|
| r                             | Regist<br>ation<br>place |                           |            | ated)<br>Date |           | elected<br>office |                                 | Propo<br>rtion |                       | Propo<br>rtion |                               | Propo<br>rtion |                          | Propo<br>rtion |  |   | within th<br>the Civil | e 2nd degr<br>Code                             | ee under         |
| ·                             |                          |                           |            |               |           |                   | Quantity                        | (%)            | Quantity              | (%)            | Quantity                      |                | Quantity                 | (%)            |  |   | Title                  | Name   | Rela<br>tionship |
| Indepen I<br>dent<br>Director | ROC                      | Lynette<br>Ling-Tai, Chou | Fe<br>Male | 2018/6/22     | 3<br>year | 2018/6/22<br>rs   | 15                              | 0.00           | 16<br>*200,000        | 0.00           | 39                            | -              | NA                       | NA             | PhD of Accounting, University of Houston Master of Accounting, University of Houston Bachelor, Major in International Business, Department of Commerce, National Taiwan University Chief of Student Affairs, National Cheng Chi University; Deputy Dean, Business School, National Cheng Chi University; Dean, Department of Accounting; Managing Supervisor, Taiwan Public Television Services; Independent Director, F-MStar Co., Ltd. | Independent Director, Chief Telecom Co.,<br>Ltd.,<br>Tenure Professor, Department of<br>Accounting, National Cheng Chi University | NA                     | NA   | NA               |

 $<sup>\</sup>ensuremath{^{\star}}$  refers to the preferred shares in the table.

Table 1: Major Shareholders of Institutional shareholders

| Institutional shareholders                             | Major Shareholders of Institutional shareholders   |
|--|--|
| Chai Hsin R.M.C. Corporation                           | Chang An Ping (65.30%); Chia Hsin Cement Corporation (13.71%), Long Chuang Investments Co., Ltd (13.40%), Huai-Ru Koo (2.09%)  |
| Tai Ho Farming Co., Ltd.                               | Hsing Cheng Investment Co., Ltd. (100%)  |
| C. F. Koo Foundation                                   | NA   |
| Chia Hsin Cement<br>Corporation                        | Chia Hsin International Co., Ltd. (16.44%); Song Zuo Investment Co., Ltd. (8.88%); Yong-Ping Chang (5.56%); Taiwan Cement Corporation (3.54%); Ta-Ho Maritime Corporation (3.32%); Kang Hao Industrial Co., Ltd. (2.45%); Jun-Hua Huang (2.07%); Chia Hsin Foundation (1.92%); Zuo Yao Investment Co., Ltd. (1.89%); Kuen-Yu Su (1.81%)  |
| Shinkong Synthetic Fibers<br>Corporation               | Shin Kong Life Insurance Co., Ltd. (5.81%); ShinKong Co., Ltd. (5.22%); Shin Sheng Investment Co., Ltd. (4.99%); Hwatai Bank Ltd. Property Trust Special Account (4.66%); Shinkong Textile Co., Ltd. (3.47%); Shinkong Insurance Co., Ltd. (3.04%); Ji Li Investment Co., Ltd. (2.37%); Toray Industries; Inc. (2.20%); Yuan Bao Co., Ltd. (2.18%); Rui Xin Industrial Co., Ltd. (1.98%)   |
| Xin Hope Investment Co.,<br>Ltd.                       | Chang Yong (20%), Shu-Chuang Chang-Lin (20%), CHI-WEN CHANG (20%), Chu-Mei Chang (20%), Chun-Chen Guo-Chang (20%)  |
| Sishan Investment Co., Ltd.                            | Lin Nan-Chou (30%); Yi-Qing Lin (10%); Ting-Jun Lin (10%); Xiu-Mei Hong (15%); Chang-Ting Hong (17.5%); Chang-Rong Hong (17.5%)  |
| International CSRC<br>Investment Holdings Co.,<br>Ltd  | Taiwan Cement Corporation (15.59%); Chinatrust Investment Co., Ltd. (4.32%); He-Po Investment Co., Ltd. (3.59%); TCC Investment Co., Ltd. (2.23%); Fubon Life Insurance Co., Ltd. (1.75%); Fu Pin Investment Co., Ltd. (1.72%); New Labor Pension Scheme Fund (1.54%); Norwegian Central Bank Investment Account under custody of CITI Bank (Taiwan) (1.52%); Chung Cheng Development Investment Corporation (1.50%); King's Town Bank Co., Ltd. (1.46%) |
| Chung Cheng Develop-<br>ment Investment<br>Corporation | International CSRC Investment Holdings Co., Ltd (100%)   |
| Representative of Fu Pin Investment Co., Ltd.:         | Koo Hsuan-Hui (49.9995%), Tian-Yi Huo (25%), Koo Gung-Kai (25%), Heng Qiang Investment Co., Ltd. (0.0005%)   |
| Representative of Heng<br>Qiang Investment Co., Ltd.:  | Koo Gung-Kai (49.9995%), Tian-Yi Huo (25%), Koo Hsuan-Hui (25%), Fu Pin Investment Co., Ltd. (0.0005%)   |
| Chinatrust Investment Co.,<br>Ltd.                     | Heng Qiang Investment Co., Ltd. (23.38%); Fu Pin Investment Co., Ltd. (23.33%); Taiwan Cement Corporation (9.36%), International CSRC Investment Holdings Co., Ltd (4.48%); TCC Investment Co., Ltd. (3.45%); Hoping Industrial Port Corporation (3.31%); Kun Qing International Development Ltd. (2.97%); Qiao Tai Investment Co., Ltd. (2.77%); Chung Ho Textile Co., Ltd. (2.31%); Ta-Ho Maritime Corporation (2.09%)                                 |

Note: All information disclosed in the above table has been provided by respective institutional shareholders. TCC provides such information as is.

Table 2: Major Shareholders of Institutional Shareholders in Table 1

| Institutional shareholders                         | Major Shareholders of Institutional shareholders  |
|--|---|
|  | Chia Hsin International Co., Ltd. (16.44%); Song Zuo Investment Co., Ltd. (8.88%); Yong-Ping Chang (5.56%); Taiwan Cement Corporation (3.54%); Ta-Ho Maritime Corporation (3.32%); Kang Hao Industrial Co., Ltd. (2.45%); Jun-Hua Huang (2.07%); Chia Hsin Foundation (1.92%); Zuo Yao Investment Co., Ltd. (1.89%); Kuen-Yu Su (1.81%)   |
| Long Chuang Investment<br>Co., Ltd.                | Chang An Ping (96.32%); Huai-Ru Koo (1.05%)   |
| Hsing Cheng Investment Co., Ltd.                   | Chuo Yun Koo-Yen(16.67%); Leslie Koo Cheng-Yun (16.67%); Ching-Hua Hu (16.67%); Lydia Chao (16.67%), Huai-Ru Koo (16.67%); Cheng-Huei Koo (8.33%); Koo, Kung-Yi (8.33%)   |
| Chia Hsin International Co.,<br>Ltd.               | Chia Hsin Cement Corporation (87.18%); Chia Hsin Construction and Development Corporation (10.41%); Cheng-Yun Chang (0.52%); Song Zuo Investment Co., Ltd. (0.42%); Ru-Ping Chang (0.25%); Yong-Ping Chang (0.22%); Zhong-Lian Zhong (0.19%); Zuo Yao Investment Co., Ltd. (0.16%); Chang An Ping (0.12%); Jian-Guo Wang (0.11%)  |
| Song Zuo Investment Co., Ltd.                      | Yong-Ping Chang (59.47%); Chia Hsin Construction and Development Corporation (14.52%)   |
| Taiwan Cement Corporation                          | Chia Hsin Cement Corporation (3.80%); Cathay Life Insurance Company, Ltd. (3.08%); Chinatrust Investment Co., Ltd. (2.69%); China Life Insurance Co., Ltd. (2.26%); Shin Kong Life Insurance Co., Ltd. (2.17%); New Labor Pension Scheme Fund (2.04%); Nan Shan Life Insurance Company, Ltd. (1.98%); Chia Hsin International Co., Ltd. (1.89%); International CSRC Investment Holdings Co., Ltd. (1.80%); Heng Qiang Investment Co., Ltd. (1.78%); |
| Ta-Ho Maritime Corporation                         | Taiwan Cement Corporation (64.79%), Taiwan Transport & Storage Co., Ltd. (29.16%)   |
| Kang Hao Industrial Co.,<br>Ltd.                   | Mei Ke Shen Enterprise Co., Ltd. (50%); Chang Sian Ping (10.5%)   |
| Chia Hsin Foundation                               | NA  |
| Zuo Yao Investment Co.,<br>Ltd.                    | Jian-Guo Wang (22.5%); Chia Hsin International Co., Ltd. (20.17%); Chia Hsin Cement Corporation (19.33%)  |
| Shin Kong Life Insurance<br>Co., Ltd.              | Shin Kong Life Insurance Co., Ltd. (100%)   |
| Shinkong Co., Ltd.                                 | Shin Sho Trading Co. Ltd. (42.65%); Lian Sui Enterprises Co., Ltd. (4.75%); Swiss Hotel Co., Ltd. (4.66%); Lin Deng Shan Social Welfare Foundation (3.95%); Xin Cheng Investment Co., Ltd. (3.51%); Ji Zhen Co., Ltd. (3.39%); Dong-xing Investment Co., Ltd. (3.37%); Hong Qi Co., Ltd. (3.34%); Chuan-Wen International Co., Ltd. (2.88%) Yuan Song Industrial Co. Ltd. (2.53%)   |
| Shin Sheng Investment Co.,<br>Ltd.                 | Ji Li Investment Co., Ltd. (51.78%); Tong Xian Investment Co., Ltd. (28.53%); Rui Xin Industrial Co., Ltd. (19.69%)   |
| Hwatai Bank Ltd. Property<br>Trust Special Account | NA NA   |
| Shinkong Textile Co., Ltd.                         | Shinkong Synthetic Fibers Corporation (9.46%); Ji Zhen Co., Ltd. (6.55%); Shin Kong Life Insurance Co., Ltd. (5.45%); Shin Kong Wu Ho-Su Memorial Hospital (4.05%); He Rui Industrial Co., Ltd. (4.00%); Qian Cheng Yi Co., Ltd. (3.93%); Jin Bao Co., Ltd. (3.82%); Hong Pu Co.m Ltd. (3.79%); Hua Cheng Co., Ltd (3.57%); Cheng Guang Industrial Co., Ltd. (3.54%)  |
| Shinkong Insurance Co.,<br>Ltd.                    | Shinkong Textile Co., Ltd. (16.31%); Shin Kong Life Insurance Co., Ltd. (9.40%); ShinKong Co., Ltd. (5.08%); Guang Ming Enterprise Co., Ltd. (2.76%); Hong Pu Co.m Ltd. (2.35%); Qian Cheng Yi Co., Ltd. (1.73%); Hong En Co., Ltd. (1.43%); Beitou Hotel Co., Ltd. (1.29%); Cheng Guang Industrial Co., Ltd. (1.28%); Cosmos Hotel Co., Ltd. (1.27%)   |
| Ji Li Investment Co., Ltd.                         | Shinkong Development Co., Ltd. (24.14%); Rui Xing Industrial Co., Ltd. (23.89%); Yu Bang Investment Co., Ltd. (16.84%); Liang Yue Investment Co., Ltd. (16.84%); Northlaken Ltd. (7.53%); De Shi Industrial Co., Ltd. (5.38%); De Liang Co., Ltd. (5.38%)   |
|  |   |
| Toray Industries, Inc.                             | NA  |

| Institutional shareholders                            | Major Shareholders of Institutional shareholders   |
|---|--|
| RUI-XIN-XING-YE Co., Ltd.                             | Jin Xian Investment Co., Ltd. (20.83%); Gui Yuan Investment Co., Ltd. (20.83%); Eugene Wu (16.67%); Thomas Wu (13.28%); Dong-Xian Wu (12.97%); Eric T. Wu (12.23%); Xian-Xian Hsu (1.04%); Jo-Nan Sun (1.04%); Hsing-Hua Ho (1.04%); Ji Zhen Co., Ltd. (0.05%)   |
| Chinatrust Investment Co.,<br>Ltd.                    | Heng Qiang Investment Co., Ltd. (23.38%); Fu Pin Investment Co., Ltd. (23.33%); Taiwan Cement Corporation (9.36%), International CSRC Investment Holdings Co., Ltd (4.48%); TCC Investment Co., Ltd. (3.45%); Hoping Industrial Port Corporation (3.31%); Kun Qing International Development Ltd. (2.97%); Qiao Tai Investment Co., Ltd. (2.77%); Chung Ho Textile Co., Ltd. (2.31%); Ta-Ho Maritime Corporation (2.09%) |
| He-Po Investment Co., Ltd.                            | Chinatrust Investment Co., Ltd. (100%)   |
| TCC Investment Co., Ltd.                              | Taiwan Cement Corporation (100%)   |
| Fubon Life Insurance Co.,<br>Ltd.                     | Fubon Financial Holding Co., Ltd. (100%)   |
| Representative of Fu Pin nvestment Co., Ltd.:         | Koo Gung-Kai (49.9995%), Tian-Yi Huo (25%), Koo Hsuan-Hui (25%), Heng Qiang Investment Co., Ltd. (0.0005%)   |
| Chung Cheng Development nvestment Corporation         | International CSRC Investment Holdings Co., Ltd (100%)   |
| King's Town Bank Co., Ltd.                            | Mercuries Life Insurance Inc. (8.18%); Cheng-Zhi Dai (6.82%); Tian-Zan Cai (6.37%); Jing Cheng Construction Co., Ltd. (4.09%); Tian Gang Investment Co., Ltd. (3.45%); Tian Lai Investment Co., Ltd. (3.04%); Xin Rui Investment Co., Ltd. (3.03%); Xian-Cong Wang (2.57%); Yi-ying Chen (2.08%); F/EMD Account of Fidelity Funds in Taiwan Custodian Bank (2.02%)   |
| Representative of Heng<br>Qiang Investment Co., Ltd.: | Koo Gung-Kai (49.9995%), Tian-Yi Huo (25%), Koo Hsuan-Hui (25%), Fu Pin Investment Co., Ltd. (0.0005%)   |
| Hoping Industrial Port<br>Corporation                 | Taiwan Cement Corporation (99.99%)   |
| Kun Qing International<br>Development Ltd.            | Yu Bang Co., Ltd. (12.27%); T.H. Wu Foundation (3.37%); Ji-Xing Hou (1.73%); Tai Qian Co., Ltd. (2.95%); Ping-Zhi Wu (2.80%); Ping-yuan Wu (2.80%); Xiu-Feng Yan (2.65%); Jin-Gan Hou (2.23%); San Shing Spinning Co., Ltd. (1.94%); Zi-Xiu Wu (1.81%)   |
| QIAO-TAI Investment Co.,<br>Ltd.                      | Tian-Yi Huo (25%), Koo Hsuan-Hui (37.4995%), Koo Gung-Kai (37.5%), Heng Qiang Investment Co., Ltd. (0.0005%)   |
| CHUNG HO SPINNING CO.,<br>.TD.                        | Xie Mei Industrial Co., Ltd. (14.7%); Zong Mei Investment Co., Ltd. (11.50%); Chang Xin Investment Co., Ltd. (10.19%); Qi-Zhao Yeh (5.17%); Qian-Fang Yeh (3.69%); Ying-Xia Yeh (3.26%); Yan-Ling Yeh (3.25%); Yan-Ling Yeh (3.25%); Ying-Qiu Yeh (3.09%); Ying-Mei Yeh (2.96%)  |

 $Note: All\ information\ disclosed\ in\ the\ above\ table\ has\ been\ provided\ by\ respective\ institutional\ shareholders.\ TCC\ provides\ such\ information\ as\ is.$ 

#### **Profiles of Directors**

| Qualification          | With five or more years of experience and the following professional qualifications  |   |   |              |              |              | Stat         | us of in     | depend       | lence²       |   |              |              | Number of concurren  |
|------------------------|--|---|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---|--------------|--------------|--|
| Name                   | Public/private college/university instructors or higher levels in commerce, law, finance, accounting or subjects required by the business of the company | Passed the qualification examination with proper licensing by the national government as court judge, prosecutor, lawyers, certified public accountant or other professional designations required by the business of the company | Experience of commerce, law, finance, accounting or others as required by the company | 1            | 2            | 3            | 4            | 5            | 6            | 7            | 8 | 9            | 10           | independent director<br>posts to other public<br>companies |
| Chang An Ping          |  |   | √   | $\checkmark$ |              | $\checkmark$ | √            |              | √            | $\checkmark$ | √ | √            |              | 1  |
| Koo, Kung-Yi           |  |   | √   |              |              | $\checkmark$ | $\checkmark$ | $\checkmark$ | √            | $\checkmark$ | √ | $\checkmark$ | $\checkmark$ | -  |
| Kenneth C.M. Lo        | $\checkmark$   |   | $\checkmark$  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | √ | $\checkmark$ |              | -  |
| Yu Tzun-Yen            |  |   | √   | <b>√</b>     | √            | √            | √            | √            | √            | √            | √ | √            |              | -  |
| Wang Por-Yuan          |  |   | √   | √            | √            | √            | √            | √            | √            | √            | √ | √            |              | 1  |
| Jennifer Lin, Esq.     |  | √   | √   | <b>√</b>     | √            | √            | √            | √            | √            |              | √ | √            |              | -  |
| Jian-Dong Chen         |  |   | √   | <b>√</b>     | √            | √            | √            | √            | √            | √            | √ | √            |              | -  |
| Eric T. Wu             |  |   | √   | <b>√</b>     | √            | <b>√</b>     | √            | √            | √            | √            | √ | √            |              | -  |
| Chang Kang-Lung, Jason |  |   | √   | √            | √            | √            |              | √            | √            | √            | √ | √            |              | -  |
| Ming-Sheng Lin         |  |   | √   | √            | √            | √            | √            | √            | √            | √            | √ | √            |              | -  |
| CHI-WEN CHANG          | √  | √   | √   | √            | √            | √            | √            | √            | √            | √            | √ | √            |              | -  |
| Lin Nan-Chou           |  |   | √   | √            | √            | √            | √            | √            | √            | √            | √ | √            |              | -  |
| Hsieh Chi-Chia         |  |   | √   | √            | √            | √            | √            | √            | √            | √            | √ | √            |              | 2  |
| Chen Chi-Te            |  |   | √   | √            | √            | √            | √            | √            | √            | √            | √ | √            |              | -  |
| David Carr Michael     | √  |   | √   | √            | √            | √            | √            | √            | √            | √            | √ | √            |              | -  |
| Yu-Cheng Chiao         |  |   | √   | √            | √            | √            | √            | √            | √            | √            | √ | √            | √            | 1  |
| Victor Wang            | √  | √   | √   | <b>√</b>     | √            | √            | √            | √            | <b>√</b>     | √            | √ | √            | √            | 1  |
| Jhen-Ming Yeh          |  | √   | √   | <b>√</b>     | √            | √            | √            | √            | <b>√</b>     | √            | √ | √            | √            | -  |
| Sheng Chin Jen         | √  |   | √   | √            | √            | √            | √            | √            | <b>√</b>     | √            | √ | √            | √            | 1  |
| Chien, Wen             |  |   | √   | <b>√</b>     | √            | <b>√</b>     | √            | √            | √            | <b>√</b>     | √ | <b>√</b>     | <b>√</b>     | -  |
| Chun-Ying, Liu         |  | √   | √   | √            | √            | √            | √            | √            | √            | √            | √ | √            | √            | 1  |
| Chih-Chung Tsai        |  |   | √   | √            | √            | √            | √            | √            | √            | √            | √ | √            | √            | -  |
| Lynette Ling-Tai, Chou | √  | √   | √   | √            | √            | √            | √            | √            | √            | √            | √ | √            | √            | 1  |

 $1 \\ \text{Check } "\sqrt" \text{ the qualifications appropriate to each director and supervisor who meet such qualifications two years before assumption of office or at the time of assumption "\sigma".$ 

- (1) Not an employee of the company or its affiliates.
- (2) Not a director or supervisor of an affiliate of the company (except for independent directors of the company or its parent company or a subsidiary established in accordance with this Act or the local laws).
- (3) Not holding more than 1% of the outstanding shares issued by the company or among the top 10 natural person shareholders by the person or his/her spouse or underage children, or in the name of a third party.
- (4) Not a spouse, the kindred at the second tier under the Civil Code, or the next of kin within the third tier under the Civil Code as specified in (1) through (3).

- (5) Not a director, supervisor or employee of an institutional shareholder holding more than 5% of the outstanding shares issued by the company, or a director, supervisor or employee of an institutional shareholder who is among the top 5 shareholders.
- (6) Not a director, supervisor, manager or shareholder holding more than 5% of the outstanding shares of a specific company or institution in business or financial relation with the company.
- (7) Not a professional, owner, partner, director, supervisor, manager of proprietorship, partnership, company or institution that provide business, legal, financial and accounting services to the company or a spouse to the aforementioned persons; except for members of the compensation committee exercising their duties in accordance with Article 7 of the Regulations Governing the Appointment and Exercise of Powers by the Compensation Committee of a Company Whose Stock is Listed on the Stock Exchange or Traded Over the Counter.
- (8) Not a spouse or the kindred at the second tier under the Civil Code to any other director.
- (9) Not under any of the categories stated in Article 30 of the Company Act.
- $(10) \ \ Not being elected as representative to the government or an institution under Article 27 of the Company Act.$

#### 3.2.2 Profiles of president, vice presidents, assistant vice presidents, department and branch heads

April 14, 2018: book closure date for AGM

|   |            |                       |        |                                 |                    |               |          |                                   |                  |                                   |   |  | 7 (p. 11, 2 ) |           | c closure date for A                          |
|---|------------|-----------------------|--------|---------------------------------|--------------------|---------------|----------|-----------------------------------|------------------|-----------------------------------|---|--|---------------|-----------|---|
| Title   | Nationalit | y Name                | Gender | Date of<br>Office<br>(Election) | Current s          | hareholdings  |          | eholdings of<br>nd minor children | Shareh<br>name o | oldings in the<br>f a third party | Education and experience  | Concurrent positions in this and other companies   | or rela       | ative wit | o is a spouse<br>h the 2nd egre<br>Civil Code |
|   |            |                       |        |                                 | Quantity           | Proportion(%) | Quantity | Proportion(%)                     | Quantity         | Proportion(%)                     |   |  | Title         | Name      | Relationship                                  |
| President   | ROC        | Li, Jong-Peir         | Male   | 2017/7/31                       | 350,000            | 0.01          | -        | -                                 | -                | -                                 | MS in Information Technology Management,<br>John Hopkins University<br>CEO & President, HSBC Taiwan | Director, Taiwan Cement Corporation; Chairman, Ta-Ho Maritime Corporation; Chairman, TCC Information Systems Corporation; Director, Taiwan Prosperity Chemical Corporation; Director, Ho-Ping Power Company; Director, E-One Moli Energy Corporation; Independent Director, TransGlobe Life Insurance Inc.   | NA            | NA        | NA  |
| Senior VP   | ROC        | Huang<br>Chien-Chiang | Male   | 2006/1/1                        | 508,167<br>*20,616 | 0.01<br>*0.01 | -        | -                                 | -                | -                                 | Department of Transportation and Communication Management Science, National Cheng Kung University   | Director/President of TCC International Holdings Limited;<br>Chairman, Wan Qing Cement Corporation;<br>Chairman, Feng Sheng Industrial Co., Ltd.;<br>Director, Taiwan Logistic and Storage Co., Ltd.;<br>Director, Ta-Ho Maritime Corporation;<br>Director, Ho-Ping Power Company;<br>Director, TCC Information System Corporate;<br>Director, CHC Resources Corporation | NA            | NA        | NA  |
| SVP (Note 1)  | ROC        | Ker-Fu Lu             | Male   | 2008/6/30                       | 170,766            | 0.00          | -        | -                                 | -                | -                                 | Department of Mechanical Engineering,<br>Tamkang University, Taiwan.                                | Chairman, Dong Cheng Quarry Co., Ltd.; Chairman, Jin Chang Minerals Co., Ltd.; Chairman, TCC Green Energy Corporation; Chairman, He Sheng Mining Co., Ltd.; Director, Ho-Ping Power Company; Director, Ta-Ho Maritime Corporation; Director, TCC Information Systems Corporation   | NA            | NA        | NA  |
| Vice President concurrent-<br>ly serving as Head of Legal<br>as well as Head of<br>Corporate Governance |            | Li-Wen Tsai           | Male   | 2015/1/5                        | 140,000            | 0.00          | -        | -                                 | -                | -                                 | LLB, Department of Law; LLM, Law School,<br>National Taiwan University                              | Director, Ta-Ho Maritime Corporation;<br>Supervisor, Ho-Ping Power Company;<br>Supervisor, He Sheng Mining Co., Ltd.   | NA            | NA        | NA  |
| VP (Note 2)   | ROC        | Bao-Luo Ge            | Male   | 2017/8/11                       | 185,271            | 0.00          | -        | -                                 | -                | -                                 | Master's Degree, Edmund A. Walsh School of<br>Foreign Studies, Georgetown University, USA           | NA   | NA            | NA        | NA  |
| Senior AVP  | ROC        | Chien-Chuan<br>Wang   | Male   | 2015/2/9                        | 88,748             | 0.00          | 1,530    | 0.00                              | -                | -                                 | Department of Mechanical Engineering, Feng<br>Chia University, Taiwan.                              | Director, Kuan-HO Refractories Industry Corporation;<br>Director, Dong Cheng Quarry Co., Ltd.  | NA            | NA        | NA  |
| Senior AVP (Note 3)   | ROC        | Feng-Ping Liu         | Female | 2015/2/9                        | 75,300             | 0.00          | -        | -                                 | -                | -                                 | Master, Department of Human Resources,<br>National Normal University                                | Director, Taiwan Prosperity Chemical Corporation   | NA            | NA        | NA  |
| Senior AVP  | ROC        | Tse-Shen Tsai         | Male   | 2018/9/3                        | 0                  | 0.00          | -        | -                                 | -                | -                                 | MA, Department of Banking and Finance,<br>National Taiwan University                                | NA   | NA            | NA        | NA  |
| AVP   | ROC        | Lin-Tian Huang        | g Male | 2015/2/9                        | 554                | 0.00          | -        | -                                 | -                | -                                 | Department of Business Administration,<br>Tamkang University, Taiwan.                               | Supervisor, Ta-Ho Maritime Corporation   | NA            | NA        | NA  |
| AVP   | ROC        | Wei-Jue Hong          | Male   | 2010/11/12                      | 132,783            | 0.00          | -        | -                                 | -                | -                                 | Department of Business Administration,<br>National Taipei University                                | Director, TCC Green Energy Corporation; Director, CHC Resources Corporation; Director, Wan Qing Cement Corporation; Director, Feng Sheng Industrial Co., Ltd.;   | NA            | NA        | NA  |
| AVP   | ROC        | Jin-Lung Yu           | Male   | 2016/4/25                       | 155,107            | 0.00          | -        | -                                 | -                | -                                 | Department of Business Administration,<br>National Ching Chi University, Taiwan                     | Director, TCC Green Energy Corporation   | NA            | NA        | NA  |

| Title                  | Nationalit | y Name        | Gender   | Date of<br>Office<br>(Election) | Current           | shareholdings |          | eholdings of<br>ad minor children |          | oldings in the<br>f a third party | Education and experience  | Concurrent positions in this and other companies   | or rela | ative wit | no is a spouse<br>h the 2nd egree<br>cCivil Code |
|------------------------|------------|---------------|----------|---------------------------------|-------------------|---------------|----------|-----------------------------------|----------|-----------------------------------|---|--|---------|-----------|--|
|                        |            |               |          |                                 | Quantity          | Proportion(%) | Quantity | Proportion(%)                     | Quantity | Proportion(%)                     |   |  | Title   | Name      | Relationshi                                      |
| AVP                    | ROC        | Yuo-Xin Son   | g Male   | 2017/3/6                        | 62,100            | 0.00          | -        | -                                 | =        | =                                 | Department of Statistics, Feng Chia University, Taiwan  | NA   | NA      | NA        | NA   |
| AVP                    | ROC        | Cen-Wei Lar   | n Male   | 2017/3/6                        | 79,033            | 0.00          | -        | -                                 | -        | -                                 | Department of Business Administration, Soochow University, Taiwan   | NA   | NA      | NA        | NA   |
| AVP                    | HongKon    | g Koo, Kung-Y | i Male   | 2017/6/8                        | 250,000           | 0.00          | -        | -                                 | -        | -                                 | MBA, The Wharton School of University of Pennsylvania<br>Vice President, Morgan Stanley Investment Banking Department                           | Director, Taiwan Cement Corporation;<br>Chairman, International CSRC Investment<br>Holdings Co., Ltd.;<br>Chairman, Taiwan Prosperity Chemical Corpora-<br>tion;<br>Chairman, E-One Moli Energy Corporation;                         | NA      | NA        | NA   |
|                        |            |               |          |                                 |                   |               |          |                                   |          |                                   |   | Director, Ho-Ping Power Company;<br>Director, TCC International Holding Limited  |         |           |  |
| AVP                    | ROC        | Yu-Jun Yeh    | Female   | 2018/1/29                       | 50,000            | 0.00          | -        | -                                 | -        | -                                 | EMBA, National Cheng Chi University, Taiwan   | NA   | NA      | NA        | NA   |
| AVP(Note 4 and 5)      | ROC        | Guo-Hong Ye   | h Male   | 2015/12/16                      | 50,000            | 0.00          | -        | -                                 | -        | -                                 | MA, Department of Accounting, National Taipei University, Taiwan.   | Director, International CSRC Investment Holdings<br>Co., Ltd;<br>Director, TCC Information System Corporation  | NA      | NA        | NA   |
| AVP (Note 4)           | ROC        | Kuang Si Che  | n Male   | 2019/4/23                       | 20,000            | 0.00          | -        | -                                 | -        | -                                 | Department of Chemical Engineering, National Central University   | NA   | NA      | NA        | NA   |
| AVP (Note 4)           | ROC        | Jia-Ro Lai    | Female   | 2019/4/23                       | 20,000            | 0.00          | 200      | -                                 | -        | -                                 | LLM, College of Law, Fu-Jen University  | NA   | NA      | NA        | NA   |
| Senior Manager(Note 6  | 6) ROC     | Xiao-En Tsen  | g Male   | 2004/12/21                      | 113,102           | 0.00          | -        | -                                 | -        | -                                 | BA in Accounting, Soochow University, Taiwan  | Supervisor, TCC Green Energy Corporation;<br>Supervisor, Rong Gong Industrial Corporation;<br>Supervisor, Ta-Ho RSEA Environment Co., Ltd.;<br>Supervisor, Ho-Ping Power Company;<br>Supervisor, TCC Information Systems Corporation | NA      | NA        | NA   |
| Senior Manager         | ROC        | Chia-Pei We   | i Male   | 2016/3/1                        | 107,256<br>*4,925 | 0.00<br>0.00  | -        | -                                 | -        | -                                 | Department of Geology, Chinese Culture University, Taiwan   | Director, Jin Chang Minerals Co., Ltd.;<br>Director, Dong Cheng Quarry Co., Ltd.;<br>Director/President, He Sheng Mining Co., Ltd.   | NA      | NA        | NA   |
| Senior Manager         | ROC        | Ming-De Li    | Male     | 2017/8/11                       | 50,000            | 0.00          | -        | -                                 | -        | -                                 | Department of Mechanical Engineering, Feng Chia University, Taiwan.   | NA   | NA      | NA        | NA   |
| Senior Manager         | ROC        | Yu-Wen Qiu    | Male     | 2017/8/11                       | 50,000<br>*3,132  | 0.00<br>0.00  | -        | -                                 | -        | -                                 | Department of Chemical Engineering, Ta Hwa Industrial Junior<br>College (now Ta Hwa University of Science and Technology), Taiwan               | NA   | NA      | NA        | NA   |
| Senior Manager         | ROC        | Cheng-Dao Qia | ang Male | 2017/8/11                       | 62,000            | 0.00          | -        | -                                 | -        | -                                 | Department of Chemical Engineering, National Taipei Institute of Technology (now National Taipei University of Technology), Taiwan              | NA   | NA      | NA        | NA   |
| Senior Manager         | ROC        | Yun-De Wu     | Male     | 2018/7/9                        | 50,012            | 0.00          | -        | -                                 | -        | -                                 | Department of Geology, Chinese Culture University, Taiwan.  | NA   | NA      | NA        | NA   |
| Manager                | ROC        | Zhi-Ren Liu   | Male     | 2017/8/11                       | 41,182            | 0.00          | -        | -                                 | -        | -                                 | Department of Chemical Engineering, Yuan Ze Institute of Technology<br>(now Yuan Ze University), Taiwan   | NA   | NA      | NA        | NA   |
| Manager                | ROC        | Jin-Yi Chen   | Male     | 2015/4/13                       | 40,000            | 0.00          | -        | -                                 | -        | -                                 | Department of Chemical Engineering, National Taiwan Institute of Technology (now National Taiwan University of Science and Technology), Taiwan. | NA   | NA      | NA        | NA   |
| Senior Assistant Manag | ger ROC    | Zhi-Feng Wu   | ı Male   | 2017/8/11                       | 55,375            | 0.00          | 3,300    | -                                 | -        | -                                 | Department of Marine Engineering, Taipei College of Maritime<br>Technology (now Taipei University of Marine Technology), Taiwan                 | NA   | NA      | NA        | NA   |
| Senior Assistant Manag | ger ROC    | Bo-Jun Lin    | Male     | 2017/8/11                       | -                 | -             | -        | -                                 | -        | -                                 | Department of Business Administration, Da Yeh University, Taiwan  | NA   | NA      | NA        | NA   |
| Senior Assistant Manag | ger ROC    | Zhi-Chun La   | i Male   | 2017/8/11                       | 50,000<br>*3,132  | 0.00          | -        | -                                 | -        | -                                 | Department of Economics, Tamkang University, Taiwan   | NA   | NA      | NA        | NA   |
| Senior Assistant Manag | ger ROC    | Chong-Zhi Ho  | ng Male  | 2015/3/30                       | 40,000            | 0.00          | -        | -                                 | -        | -                                 | Department of Environmental Biology and Fisheries Science, National<br>Taiwan Ocean University, Taiwan  | Director, Feng Sheng Industrial Co., Ltd.;<br>Director, Wan Qing Cement Corporation;<br>Supervisor, Chia Huan Tung Cement Corporation  | NA      | NA        | NA   |

| Title               | Nationali   | ty Name       | Gender | Date of<br>Office<br>(Election) | Current          | shareholdings |          | eholdings of<br>d minor children |          | oldings in the<br>a third party | Education and experience  | Positions in this and other companies | or rel | ative wit | no is a spouse<br>h the 2nd egree<br>e Civil Code |
|---------------------|-------------|---------------|--------|---------------------------------|------------------|---------------|----------|----------------------------------|----------|---------------------------------|---|---------------------------------------|--------|-----------|---|
|                     |             |               |        |                                 | Quantity         | Proportion(%) | Quantity | Proportion(%)                    | Quantity | Proportion(%)                   |   |                                       | Title  | Name      | Relationship                                      |
| Senior Assistant Ma | anager ROC  | Zhi-Heng Peng | Male   | 2017/8/11                       | 25,000           | 0.00          | -        | -                                | -        | -                               | Department of Mechanical Engineering, National Taipei University of Technology, Taiwan.                   | NA                                    | NA     | NA        | NA  |
| Assistant Mana      | ger ROC     | Jao-Gui Lin   | Male   | 2018/3/14                       | 25,000<br>*1,566 | 0.00<br>*0.00 | -        | -                                | -        | -                               | Department of Japanese, Wenzao College of Foreign Languages (now Wenzao Ursuline University of Languages) | NA                                    | NA     | NA        | NA  |
| Senior Manager(N    | lote 7) ROC | Yen-Hsi Chi   | Female | 2018/7/9                        | 0                | 0.00          | -        | -                                | -        | -                               | MA, Department of Banking and Finance, National Taiwan University   | NA                                    | NA     | NA        | NA  |

Note 1: On April 23, 2019, Mr. Ker-Fu Lu was promoted to SVP from VP.

Note 2: On April 23, 2019, Mr. Bao-Luo Ge was promoted to VP from Senior AVP.

Note 3: On April 23, 2019, Ms. Feng-Ping Liu was promoted to Senior AVP from AVP.

 $Note\ 4: On\ April\ 23, 2019, Mr.\ Kuo-Hong\ Yeh, Mr.\ Kuang\ Si\ Chen, and\ Ms.\ Jia-Ro\ Lai\ were\ promoted\ to\ AVP\ from\ Senior\ Manager.$ 

Note 5: Accounting chief.

Note 6: Chief auditor

Note 7: Ms. Yen-Hsi Chi was discharged from insider on January 29, 2019

Note 8: \* refers to the preferred shares.

#### 3.2.3 Compensation for directors, supervisors, presidents, and vice presidents

#### (1) Compensation for directors

|               |                                      | Dire                                   | ctor Comp           | ensation                               |             |                                      |             | centage of the sum                   |                   | Pay f                                | for dir | ector who is concu                   | rrently an em | ıployee              |                                       |             | Percentage                 | of the                             | Related<br>comper<br>sation |
|---------------|--------------------------------------|--|---------------------|--|-------------|--------------------------------------|-------------|--------------------------------------|-------------------|--------------------------------------|---------|--------------------------------------|---------------|----------------------|---------------------------------------|-------------|----------------------------|------------------------------------|-----------------------------|
| Title<br>Name | Compensation (A)                     | Severance Pay<br>/Retirement Allowance | Comp<br>(B) distrib | ensation from<br>oution of earnings (C | Bu<br>)¹ ex | usiness<br>ecution expenses (D)      | of A<br>pro | to D in the net<br>fit after tax     | Salarie<br>and sp | es, bonuses,<br>ecial expenses, etc. | (E) F   | Severance Pay/<br>Retirement Allowan | ice (F)²      | Employee professions | fit sharing from<br>bution (G)³       | _           | sum of A to<br>the net pro | G in                               | from                        |
| Nume          | All firms disclosed in the financial | All firms disclosed                    | i                   | All firms disclosed in the financial   |             | All firms disclosed in the financial |             | All firms disclosed in the financial |                   | All firms disclosed                  | i       | All firms disclosed                  | d             |                      | All firms disclosed financial stateme |             | All firn                   | ns disclosed<br>financial<br>nents | other<br>than the           |
|               | TCC statements                       | TCC statements                         | TCC                 | statements                             | TCC         | statements                           | TCC         | statements                           | TCC               |                                      | TCC     |                                      | Cash Amou     | nt Stock Amou        | ınt Cash Amount                       | Stock Amoun | t TCC staten               | nents                              | iaries                      |
| Chairman      | 24,050 35,976                        |  | 215,088             | 215,088                                | 1,112       | 1,200                                | 1.13%       | 1.19%                                | 61,070            | 63,454                               | 108     | 108                                  | 12,638        | -                    | 12,638                                | -           |                            | 55%                                | 28,710                      |

Chai Hsin R.M.C. Corporation Chang An Ping

Vice Chairman Tai Ho Farming Co., Ltd. Koo, Kung-Yi

Director
C. F. Koo Foundation
Representative: Li, Jong-Peir
Representative: David Carr Michael
(Note 4)

Director
Representative of Fu Pin
Investment Co., Ltd.:
Representative: Wang Por-Yuan

Director
Representative of Fu Pin
Investment Co., Ltd.:
Representative: Hsieh Chi-Chia

Director International CSRC Investment Holdings Co., Ltd Kenneth C.M. Lo

Director Chia Hsin Cement Corporation Representative: Chang Kang-Lung, Jason

Director Chia Hsin Cement Corporation Representative: Chen Chi-Te

Director
Xin Hope Investment Co., Ltd.
Representative: CHI-WEN CHANG

Director Chinatrust Investment Co., Ltd. Representative: Chun-Ying, Liu Representative: Jennifer Lin, Esq. (Note 4)

Director Chung Cheng Development Investment Corporation Representative: Yu Tzun-Yen

Director
Representative of Heng Qiang Investment
Co., Ltd.: Representative: Chien, Wen

(expressed in NT\$ thousands)

#### (expressed in NT\$ thousands)

|               |                                      | Direc                                    | tor Comp             | ensation                                |            |                                      |       | entage of the sum                    |        | Pay fo                                 | r dire | ector who is concur                | rently an em | oloyee                  |   |             | Percentag  | e of the                     | Related<br>compen-<br>sation |
|---------------|--------------------------------------|--|----------------------|---|------------|--------------------------------------|-------|--------------------------------------|--------|--|--------|------------------------------------|--------------|-------------------------|---|-------------|------------|------------------------------|------------------------------|
| Title<br>Name | Compensation (A)                     | Severance Pay<br>/Retirement Allowance ( | Compe<br>(B) distrib | ensation from<br>ution of earnings (C)¹ | Bus<br>exe | siness<br>ecution expenses (D)       |       | to D in the net<br>it after tax      |        | es, bonuses,<br>ecial expenses, etc. ( |        | everance Pay/<br>etirement Allowan | ce (F)²      | Employee plearnings dis | rofit sharing from<br>tribution (G)³      |             | sum of A t |                              | from                         |
|               | All firms disclosed in the financial | d All firms disclosed in the financial   |                      | All firms disclosed in the financial    |            | All firms disclosed in the financial |       | All firms disclosed in the financial |        | All firms disclosed in the financial   |        | All firms disclosed                | l            | тсс                     | All firms disclosed<br>financial statemen |             | All fi     | rms disclosed<br>e financial | other<br>than the            |
|               | TCC statements                       | TCC statements                           | TCC                  |   | CC         | statements                           | TCC   | statements                           | TCC    |  | TCC    |                                    | Cash Amour   | t Stock Am              | ount Cash Amount                          | Stock Amoun |            |                              | subsid-<br>iaries            |
| Director      | 24,050 35,976                        |  | 215,088              | 215,088 1                               | ,112       | 1,200                                | 1.13% | 1.19%                                | 61,070 | 63,454                                 | 108    | 108                                | 12,638       | -                       | 12,638                                    | -           | 1.48%      | 1.55%                        | 28,710                       |

Representative of Heng Qiang Investment Co., Ltd.: Representative: Chih-Chung, Tsai

Director

Shinkong Synthetic Fibers Corporation Representative: Eric T. Wu

Director

Sishan Investment Co., Ltd. Representative: Lin Nan-Chou

Director<sup>2</sup>

He Feng Investment Co., Ltd. Ching Yuan Investment Co., Ltd.: Representative: Jian-Dong Chen

Director<sup>2</sup>
Goldsun De

Goldsun Development &
Construction Co., Ltd.
Representative: Ming-Sheng Lin

Independent Director Victor Wang

Independent Director Yu-Cheng Chiao

Independent Director Lynette Ling-Tai, Chou

Independent Director Sheng Chin Jen

Independent Director
Jhen-Ming Yeh (Note 4)

Note 1: Refer to the compensation (including salary, duty allowances, severance pay, bonuses, awards, etc.) of directors in AY 2018. Note 2: The amount of severance pay/retirement allowance recognized as expenses in AY 2018 was NT\$108,000, and no retirement allowance has been disbursed in reality.

Note 3: Refer to the amount of reward for employees for AY 2018 approved by BOD. Figures in the table are estimates. Note 4: Previous director who were not re-elected in the Shareholders' Meeting on June 22, 2018.

| Range of Compensation 2>                             |   | Name of Director   |   |   |
|--|---|--|---|---|
| for TCC Directors                                    | Total amount of A to D  |  | Total amount of A to G  |   |
|  | тсс   | All firms disclosed in the financial statements  | тсс   | All firms disclosed in the financial statements   |
| Below NT\$2,000,000                                  |   | Li, Jong-Peir, Wang Por-Yuan, Hsieh Chi-Chia, Kenneth C.M. Lo, Chang Kang-Lung, Jason, Chen Chi-Te, CHI-WEN CHANG, Chun-Ying, Liu, Yu Tzun-Yen, Chien, Wen, Chih-Chung, Tsai, Eric T. Wu, Lin Nan-Chou, Jennifer Lin, Esq., Jian-Dong Chen, Ming-Sheng Lin, Victor Wang, Yu-Cheng Chiao, Lynette Ling-Tai, Chou, Jhen-Ming Yeh, Sheng Chin Jen, David Carr Michael | Wang Por-Yuan, Hsieh Chi-Chia, Kenneth C.M. Lo, Chang Kang-Lung, Jason, Chen Chi-Te, CHI-WEN CHANG, Chun-Ying, Liu, Yu Tzun-Yen, Chien, Wen, Chih-Chung, Tsai, Eric T. Wu, Lin Nan-Chou, Jennifer Lin, Esq., Jian-Dong Chen, Ming-Sheng Lin, Victor Wang, Yu-Cheng Chiao, Lynette Ling-Tai, Chou, Sheng Chin Jen, Jhen-Ming Yeh, David Carr Michael | Wang Por-Yuan, Hsieh Chi-Chia, Kenneth C.M. Lo, Chang Kang-Lung, Jason, Chen Chi-Te, CHI-WEN CHANG, Chun-Ying, Liu, Yu Tzun-Yen, Chien, Wen, Chih-Chung, Tsai, Eric T. Wu, Lin Nan-Chou, Jennifer Lin, Esq., Jian-Dong Chen, Ming-Sheng Lin, Victor Wang, Yu-Cheng Chiao, Lynette Ling-Tai, Chou, Sheng Chin Jen, Jhen-Ming Yeh, David Carr Michael |
| NT\$2,000,000(included)-NT\$5,000,000 (excluded)     |   |  |   |   |
| NT\$5,000,000 (included) – NT\$10,000,000 (excluded) | Chai Hsin R.M.C. Corporation, Tai Ho Farming Co., Ltd., Chung Cheng Development Investment Corporation, He Feng Investment Co., Ltd., Ching Yuan Investment Co., Ltd., Goldsun Development & Construction Co., Ltd. | Koo, Kung-Yi, Chai Hsin R.M.C. Corporation, Tai Ho Farming Co., Ltd., Chung Cheng Development Investment Corporation, He Feng Investment Co., Ltd., Ching Yuan Investment Co., Goldsun Development & Construction Co., Ltd.  | Chai Hsin R.M.C. Corporation, Tai Ho Farming Co., Ltd., Chung Cheng Development Investment Corporation, He Feng Investment Co., Ltd., Ching Yuan Investment Co., Ltd., Goldsun Development & Construction Co., Ltd.   | Chai Hsin R.M.C. Corporation, Tai Ho Farming Co., Ltd.,<br>Chung Cheng Development Investment Corporation, He Feng<br>Investment Co., Ltd., Ching Yuan Investment Co.,<br>Goldsun Development & Construction Co., Ltd.  |
| NT\$10,000,000(included)-NT\$15,000,000 (excluded)   | C. F. Koo Foundation, International CSRC Investment Holdings Co., Ltd. Xin Hope Investment Co., Ltd., Chinatrust Investment Co., Ltd., Shinkong Synthetic Fibers Corporation, Sishan Investment Co., Ltd.           | C. F. Koo Foundation, International CSRC Investment Holdings Co., Ltd. Xin Hope Investment Co., Ltd., Chinatrust Investment Co., Ltd., Shinkong Synthetic Fibers Corporation, Sishan Investment Co., Ltd.  | Koo, Kung-Yi, C. F. Koo Foundation, International CSRC Investment Holdings Co., Ltd, Xin Hope Investment Co., Ltd., Chinatrust Investment Co., Ltd., Shinkong Synthetic Fibers Corporation, Sishan Investment Co., Ltd.   | C. F. Koo Foundation, International CSRC Investment Holdings Co., Ltd. Xin Hope Investment Co., Ltd., Chinatrust Investment Co., Ltd., Shinkong Synthetic Fibers Corporation, Sishan Investment Co., Ltd.   |
| NT\$15,000,000(included)-NT\$30,000,000 (excluded)   | Fu Pin Investment Co., Ltd., Chia Hsin Cement Corporation, Heng Qiang Investment Co., Ltd.  | Fu Pin Investment Co., Ltd., Chia Hsin Cement Corporation, Heng Qiang Investment Co., Ltd.   | Fu Pin Investment Co., Ltd., Chia Hsin Cement Corporation, Heng Qiang Investment Co., Ltd.  | Koo, Kung-Yi, Fu Pin Investment Co., Ltd., Chia Hsin Cement Corporation, Heng Qiang Investment Co., Ltd.  |
| NT\$30,000,000(included)-NT\$50,000,000 (excluded)   |   |  |   |   |
| NT\$50,000,000(included)–NT\$100,000,000 (excluded)  | Chang An Ping   | Chang An Ping  | Chang An Ping, Li, Jong-Peir  | Chang An Ping, Li, Jong-Peir  |
| NT\$100,000,000 and above                            |   |  |   |   |
| Total  | 39  | 39   | 39  | 39  |

#### (2) Compensation for presidents and vice presidents

Vice President Li-Wen Tsai

(expressed in NT\$ thousands)

|                |                    |        | Salary (A)                           | Severance Pay | /Retirement Allowance (B)            | Bonuses & | Special expenses (C)                 |             |             | loyee profit sharii<br>istribution (D) (No |                       |       | ige of the sum of profit after tax   | Related compensation |
|----------------|--------------------|--------|--------------------------------------|---------------|--------------------------------------|-----------|--------------------------------------|-------------|-------------|--|-----------------------|-------|--------------------------------------|----------------------|
| Title          | Name               |        | All firms disclosed in the financial |               | All firms disclosed in the financial |           | All firms disclosed in the financial | тсс         |             | All firms discl<br>financial state         | osed in the<br>ements |       | All firms disclosed in the financial | other than the       |
|                |                    | TCC    | statements                           | тсс           | statements                           | TCC       | statements                           | Cash Amount | Stock Amoun | t Cash Amount                              | Stock Amount          | TCC   | statements                           | subsidiaries         |
| President      | Li, Jong-Peir      | 37,400 | 40,860                               | 14,224        | 14,224                               | 50,348    | 50,364                               | 16,614      | -           | 16,614                                     | -                     | 0.56% | 0.58%                                | -                    |
| Senior VP      | Huang Chien-Chiang |        |                                      |               |                                      |           |                                      |             |             |  |                       |       |                                      |                      |
| Senior VP(Note | e 2) Jennifer Wang |        |                                      |               |                                      |           |                                      |             |             |  |                       |       |                                      |                      |
| Senior VP(Note | e 3) Ker-Fu Lu     |        |                                      |               |                                      |           |                                      |             |             |  |                       |       |                                      |                      |

Note 1: Refer to the salary, duty allowances, and severance pay of presidents and vice presidents and vice presidents in AY 2017 approved by BOD. Figures in the table are estimates. Note 2: Ms. Jennifer Wang retirement effective on April 4, 2018. Note 3: On April 23, 2019, Mr. Ker-Fu Lu was promoted to SVP from VP.

| Range of Compensation 2> for TCC Presidents and Vice Presidents | Name of Presidents and Vice Presidents     |   |  |  |  |  |  |  |
|---|--|---|--|--|--|--|--|--|
| for ICC Presidents and vice Presidents                          | тсс  | All firms disclosed in the financial statements |  |  |  |  |  |  |
| Below NT\$2,000,000   |  |   |  |  |  |  |  |  |
| NT\$2,000,000 (included) - NT\$5,000,000 (excluded)             |  |   |  |  |  |  |  |  |
| NT\$5,000,000 (included) – NT\$10,000,000 (excluded)            |  |   |  |  |  |  |  |  |
| NT\$10,000,000 (included) - NT\$15,000,000 (excluded)           | Huang Chien-Chiang, Ker-Fu Lu, Li-Wen Tsai | Ker-Fu Lu, Li-Wen Tsai                          |  |  |  |  |  |  |
| NT\$15,000,000 (included) - NT\$30,000,000 (excluded)           | Jennifer Wang                              | Huang Chien-Chiang, Jennifer Wang               |  |  |  |  |  |  |
| NT\$30,000,000 (included) - NT\$50,000,000 (excluded)           |  |   |  |  |  |  |  |  |
| NT\$50,000,000 (included) - NT\$100,000,000 (excluded)          | Li, Jong-Peir                              | Li, Jong-Peir                                   |  |  |  |  |  |  |
| NT\$100,000,000 and above                                       |  |   |  |  |  |  |  |  |
| Total   | 5  | 5   |  |  |  |  |  |  |



#### **Compensation for Managers**

| Comp | ensation for Managers  |                    |                             | December:                | 31, 2018 (exp | ressed in NT\$ thousands)                  |
|------|--|--------------------|-----------------------------|--------------------------|---------------|--|
|      | Title  | Name               | Stock Amount <sup>1</sup> ( | Cash Amount <sup>1</sup> | Total         | Percentage in<br>net earnings<br>after tax |
|      | President  | Li, Jong-Peir      | -                           | 32,203                   | 32,203        | 0.15%                                      |
|      | Senior VP  | Huang Chien-Chiang |                             |                          |               |  |
|      | Senior VP (Note 2)   | Ker-Fu Lu          |                             |                          |               |  |
|      | VP concurrently serving as Head of Legal an Corporate Governance | Li-Wen Tsai        |                             |                          |               |  |
|      | VP (Note 3)  | Bao-Luo Ge         |                             |                          |               |  |
|      | Senior AVP   | Chien-Chuan Wang   |                             |                          |               |  |
|      | Senior AVP   | Tse-Shen Tsai      |                             |                          |               |  |
|      | Senior AVP (Note 4)  | Feng-Ping Liu      |                             |                          |               |  |
|      | AVP  | Koo, Kung-Yi       |                             |                          |               |  |
|      | AVP  | Lin-Tian Huang     |                             |                          |               |  |
|      | AVP  | Wei-Jue Hong       |                             |                          |               |  |
|      | AVP  | Jin-Lung Yu        |                             |                          |               |  |
|      | AVP  | Cen-Wei Lan        |                             |                          |               |  |
|      | AVP  | Yuo-Xin Song       |                             |                          |               |  |
|      | AVP  | Yu-Jun Yeh         |                             |                          |               |  |
|      | AVP (Note 5)   | Kuang Si Chen      |                             |                          |               |  |
| Man  | AVP (Note 5)   | Jia-Ro Lai         |                             |                          |               |  |
| ager | AVP (Note 5 and 6)   | Guo-Hong Yeh       |                             |                          |               |  |
|      | Senior Manager (Note 7)  | Xiao-En Tseng      |                             |                          |               |  |
|      | Senior Manager   | Chia-Pei Wei       |                             |                          |               |  |
|      | Senior Manager   | Ming-De Li         |                             |                          |               |  |
|      | Senior Manager   | Yu-Wen Qiu         |                             |                          |               |  |
|      | Senior Manager   | Cheng-Dao Qiang    |                             |                          |               |  |
|      | Senior Manager   | Yun-De Wu          |                             |                          |               |  |
|      | Manager  | Zhi-Ren Liu        |                             |                          |               |  |
|      | Manager (Note 8)   | Jin-Yi Chen        |                             |                          |               |  |
|      | Senior Assistant Manager   | Zhi-Feng Wu        |                             |                          |               |  |
|      | Senior Assistant Manager   | Bo-Jun Lin         |                             |                          |               |  |
|      | Senior Assistant Manager   | Zhi-Chun Lai       |                             |                          |               |  |
|      | Senior Assistant Manager   | Chong-Zhi Hong     |                             |                          |               |  |
|      | Senior Assistant Manager   | Zhi-Heng Peng      |                             |                          |               |  |
|      | Assistant Manager  | Jao-Gui Lin        |                             |                          |               |  |
|      | Senior Manager (Note 9)  | Yen-Hsi Chi        |                             |                          |               |  |
|      | Senior VP (Note 10)  | Jennifer Wang      |                             |                          |               |  |
|      | AVP (Note 11)  | Shi-Ming Chen      |                             |                          |               |  |
| 2    | Assistant Manager (Note 12)                                      | Chia-Hsien Lin     |                             |                          |               |  |

Note 1: Refer to the compensation for managers in AY 2018 approved by BOD. Figures in the table are estimates.

Note 2: On April 23, 2019, promoted to Senior VP from VP

Note 3: On April 23, 2019, promoted to VP from Senior AVP

Note 4: On April 23, 2019, promoted to Senior AVP from AVP

Note 5: On April 23, 2019, promoted to AVP from Senior Manager

Note 6: Accounting chief.

Note 7: Chief auditor

Note 8: On April 23, 2019, promoted to Manager from Senior Assistant Manager

Note 9: Discharged on January 31, 2019

Note 10: Retirement effected on April 4, 2018

Note 11: Resignation effected on March 3, 2018

Note 12: Discharged on March 14, 2018; resignation effected on April 7, 2018

3.2.4 A comparative description with analysis on the ratio taken by the gross total of compensation paid by this company and all firms disclosed in the consolidated financial statements to the directors, presidents and vice presidents of this company to the net earnings after tax over the past two years, including a description of the policies, criteria and composition of compensation; the procedures to determine compensation, their interrelationship with business performance and future risks.

|                                |       | Percentage of Total Amount of Comper            | sation in Net Earning | s After Tax                                     |
|--------------------------------|-------|---|-----------------------|---|
| Title                          |       | AY 2018   |                       | AY 2017   |
|                                | тсс   | All firms disclosed in the financial statements | тсс                   | All firms disclosed in the financial statements |
| Directors                      | 1.13% | 1.48%   | 1.18%                 | 1.32%   |
| Presidents and vice presidents | 0.56% | 0.58%   | 0.80%                 | 0.82%   |

BOD is authorized to determinate the compensation of individual directors through discussions in respect of their involvement in organizational operations and organizational contributions and with reference to the common pay standards in the business at home and abroad. The Compensation Committee reviews, discusses, and approves the salary and compensation for vice presidents and positions above, with respect to the operational results of the Company. For President's salary and compensation, the Compensation Committee reviews and discusses, and then reports to the BOD for approval.

The compensation policy of this company will be established and implemented as per Article 25 of the Articles of Incorporation with respect to the financial status and operational results of the year and in consideration off future fund utilization planning, in order to minimize future risks.

#### 3.3 Status of governance

#### 3.3.1 Operation of the board of director (BOD)

During January 1, 2018 to June 22, 2018, 22nd BOD held a total of four meetings (A), the attendance of directors is as follows

| Title N       | lame     |   | Actual<br>attendances (B) | Attendances<br>by proxy | Date of actual attendance (%) [B/A] | Note |
|---------------|----------|---|---------------------------|-------------------------|-------------------------------------|------|
| Chairman      |          | Representative of Fu Pin Investment Co., Ltd.:Chang An Ping                       | 4                         | 0                       | 100                                 |      |
| Director      |          | Representative of Heng Qiang Investment Co., Ltd.: Koo, Kung-Yi                   | 4                         | 0                       | 100                                 |      |
| Director      |          | International CSRC Investment Holdings Co., Ltd Kenneth C.M. Lo                   | 2                         | 2                       | 50                                  |      |
| Director      |          | Representative of Heng Qiang Investment Co., Ltd.:<br>Representative: Yu Tzun-Yen | 4                         | 0                       | 100                                 |      |
| Director      |          | He Feng Investment Co., Ltd.<br>Representative: Wang Por-Yuan                     | 3                         | 1                       | 75                                  |      |
| Director      |          | Chinatrust Investment Co., Ltd.<br>Representative: Jennifer Lin, Esq.             | 3                         | 0                       | 75                                  |      |
| Director      |          | Xin Hope Investment Co., Ltd.<br>Representative: CHI-WEN CHANG                    | 3                         | 1                       | 75                                  |      |
| Director      |          | Ching Yuan Investment Co., Ltd.:<br>Representative: Jian-Dong Chen                | 3                         | 1                       | 75                                  |      |
| Director      |          | Shinkong Synthetic Fibers Corporation<br>Representative: Eric T. Wu               | 4                         | 0                       | 100                                 |      |
| Director      |          | Chia Hsin Cement Corporation<br>Representative: Chang Kang-Lung, Jason            | 3                         | 1                       | 75                                  |      |
| Director      |          | Goldsun Development & Construction Co., Ltd.<br>Representative: Ming-Sheng Lin    | 3                         | 1                       | 75                                  |      |
| Director      |          | Sishan Investment Co., Ltd.<br>Representative: Lin Nan-Chou                       | 3                         | 1                       | 75                                  |      |
| Director      |          | Representative of Fu Pin Investment Co., Ltd.:<br>Representative: Hsieh Chi-Chia  | 4                         | 0                       | 100                                 |      |
| Director      |          | Representative of Heng Qiang Investment Co., Ltd.:<br>Representative: Chen Chi-Te | 4                         | 0                       | 100                                 |      |
| Director      |          | C. F. Koo Foundation<br>Representative: David Carr Michael                        | 1                         | 2                       | 25                                  |      |
| Independent I | Director | Yu-Cheng Chiao  | 4                         | 0                       | 100                                 |      |
| Independent I | Director | Victor Wang   | 4                         | 0                       | 100                                 |      |
| Independent I | Director | Jhen-Ming Yeh   | 3                         | 1                       | 75                                  |      |
| Independent I | Director | Sheng Chin Jen  | 4                         | 0                       | 100                                 |      |

Other information required for disclosure

(2) May 10, 2018, 22st meeting, 22nd Round Discussion of proposal 1, the reward distribution for employees and directors for 2017.

Discussion process: All directors sidestepped from the discussion, except for independent directors.

All directors sidestepped from the discussion, except for independent directors. The meeting was chaired by the Independent Director, Mr. Victor Wang. The proposal has been approved in the 11th meeting of the 3rd Round of Compensation Committee, and the chairperson consulted all the independent directors. The independent directors unanimously agreed with the proposal. Discussion of proposal 2: proportion of distribution of reward for directors in 2017.

Discussion process: All directors sidestepped from the discussion, except for independent directors.

Discussion process: All directors sidestepped from the discussion, except for independent directors. The meeting was chaired by the Independent Director, Mr. Victor Wang. The proposal has been approved in the 11th meeting of the 3rd Round of Compensation Committee, and the chairperson consulted all the independent directors. The independent directors unanimously agreed with the proposal.

The 12th discussion: proposal of donation: Discussion process: Chairman Chang An Ping and directors Chang Kang-Lung, Jason, Chen Chi-Te, and Sheng Chin Jen sidestepped from the discussion for conflicts of interest, and Director Victor Wang became the acting chair of the board meeting. In addition to Chairman Chang An Ping and directors Chang Kang-Lung, Jason, Chen Chi-Te, and Sheng Chin Jen who sidestepped from the discussion for conflicts of interest, the proposal was approved unanimously by other BOD members at the enquiry of the acting chair.3. Targets for BOD competency improvement in the current and previous years and performance evaluation: 1. BOD emphasizes composition diversity, with members equipped with role-related knowledge, skills and industrial backgrounds. After listening to the reports presented by the management team, directors will give them instructions and advice and maintain good communication with the management team, directors will give them instructions and advice and maintain good communication with the management team, in order to maximize benefits for shareholders. Four meetings of the 22nd Round of BOD were held during January to June 2018, complying with the requirement of at least one meeting of every quarter. The key proposals are all disclosed on MOPS for the sure disclosure. 2. The BOD is committed to establishing a sound BOD governance system, boosting supervision capacity, and improving the management function, in order to fulfill the requirements specified in the Rules of Procedure for Board Meetings.

#### During June 22, 2018 to March 31, 2019, the 23rd BOD held a total of eight meetings (A), the attendance of directors is as follows

| Title Name           |  |   | Attendances<br>by proxy | Date of actual attendance (%) [B/A] | Note |
|----------------------|--|---|-------------------------|-------------------------------------|------|
| Chairman             | Chai Hsin R.M.C. Corporation                       | 8 | 0                       | 100                                 |      |
|                      | Chang An Ping                                      |   |                         |                                     |      |
| Vice Chairman        | Tai Ho Farming Co., Ltd.                           | 8 | 0                       | 100                                 |      |
|                      | Koo, Kung-Yi                                       |   |                         |                                     |      |
| Director             | C. F. Koo Foundation                               | 8 | 0                       | 100                                 |      |
|                      | Representative: Li, Jong-Peir                      |   |                         |                                     |      |
| Director             | Chia Hsin Cement Corporation                       | 6 | 2                       | 75                                  |      |
|                      | Representative: Chang Kang-Lung, Jason             |   |                         |                                     |      |
| Director             | Shinkong Synthetic Fibers Corporation              | 4 | 4                       | 50                                  |      |
|                      | Representative: Eric T. Wu                         |   |                         |                                     |      |
| Director             | Xin Hope Investment Co., Ltd.                      | 5 | 3                       | 63                                  |      |
|                      | Representative: CHI-WEN CHANG                      |   |                         |                                     |      |
| Director             | Sishan Investment Co., Ltd.                        | 7 | 1                       | 88                                  |      |
|                      | Representative: Lin Nan-Chou                       |   |                         |                                     |      |
| Director             | International CSRC Investment Holdings Co., Ltd    | 5 | 3                       | 63                                  |      |
|                      | Kenneth C.M. Lo                                    |   |                         |                                     |      |
| Director             | Chung Cheng Development Investment Corporation,    | 5 | 3                       | 63                                  |      |
|                      | Representative: Yu Tzun-Yen                        |   |                         |                                     |      |
| Director             | Chia Hsin Cement Corporation                       | 6 | 2                       | 75                                  |      |
|                      | Representative: Jian-dong Che                      |   |                         |                                     |      |
| Director             | Representative of Fu Pin Investment Co., Ltd.:     | 6 | 2                       | 75                                  |      |
|                      | Representative: Wang Por-Yuan                      |   |                         |                                     |      |
| Director             | Representative of Fu Pin Investment Co., Ltd.:     | 6 | 2                       | 75                                  |      |
|                      | Representative: Hsieh Chi-Chia                     |   |                         |                                     |      |
| Director             | Representative of Heng Qiang Investment Co., Ltd.: | 8 | 0                       | 100                                 |      |
|                      | Representative: Chien, Wen                         |   |                         |                                     |      |
| Director             | Chinatrust Investment Co., Ltd.                    | 8 | 0                       | 100                                 |      |
|                      | Representative: Chun-Ying, Liu                     |   |                         |                                     |      |
| Director             | Representative of Heng Qiang Investment Co., Ltd.: | 8 | 0                       | 100                                 |      |
|                      | Representative: Chih-Chung, Tsai                   |   |                         |                                     |      |
| Independent Director | Yu-Cheng Chiao                                     | 6 | 2                       | 75                                  |      |
| Independent Director | Victor Wang  | 8 | 0                       | 100                                 |      |
| Independent Director | Sheng Chin Jen                                     | 6 | 2                       | 75                                  |      |
| Independent Director | Lynette Ling-Tai, Chou                             | 8 | 0                       | 100                                 |      |

Other information required for disclosure:

1. Matters specified in Article 14-3 of the Securities and Exchange Act and objections or qualified opinion for the records or with written statements of independent directors to other BOD resolutions: NA.

2. Avoidance from proposals with conflicts of interest by directors.

(1) June 22, 2018, 1st meeting, 23rd Round Discussion of Proposal 2: proposed delegation of the 4th round of members of the "Compensation Committee."

Discussion for rocess: Victor Wang, Yu-Cheng Chiao, Sheng Chin Jen, and Lynette Ling-Tai, Chou who sidestepped from the discussion for conflicts of interest

Other than Victor Wang, Yu-Cheng Chiao, Sheng Chin Jen, and Lynette Ling-Tai, Chou who sidestepped from the discussion for conflicts of interest, the proposal was unanimously approved by other BOD

(2) August 10, 2018, 3rd meeting, 23rd Round

Discussion of Proposal 6: the proposed rewards and attendance fee for the directors of the 23rd round.

Discussion process: Independent directors, namely Victor Wang, Yu-Cheng Chiao, Sheng Chin Jen, and Lynette Ling-Tai, Chou who sidestepped from the discussion for conflicts of interest.

The proposal has been approved in the 2nd meeting of the 4th round Compensation Committee; however, as the independent directors do not receive the rewards for the directors, and they have more responsibilities, the monthly compensation to each independent director is adjusted to NT\$ 150,000. Other than the independent directors sidestepped due to conflicts of interests, the proposal was unanimously approved by other BOD members

with the enquiry from the chair.

(3) November 13, 2018, 6th meeting, 23rd Round

Discussion Proposal 2: proposed acquistion of equipment from two ready-mix concrete plants of Chai Hsin R.M.C. Corporation in Taovuan District.

Chairman Chang An Ping sidestepped due to conflicts of interests, and Kenneth C.M. Lo was the acting chairperson.

The proposal has been approved in the 6th meeting of the 2nd round Audit Committee. Other than Chairman Chang An Ping who sidestepped due to conflicts of interests, the proposal was unanimously

approved by BOD members with the enquiry from the chair. (4) March 22, 2019, 8th meeting, 23rd Round

Discussion of proposal 1, the reward distribution for employees and directors for 2018.

Discussion process: All directors sidestepped from the discussion, except for independent directors.

All directors sidestepped from the discussion, except for independent directors. The meeting was chaired by the Independent Director, Mr. Yu-Cheng Chiao. The proposal has been approved in the 6th meeting of the 4th Round of Compensation Committee, and the chairperson consulted all the independent directors. The independent directors unanimously agreed with the proposal by the enquiry of the chair. The

rewards to the directors is adjusted from 0.84% to 1%, or NT\$ 215,087,848; the rewards to the employee were approved as proposed. Discussion of proposal 2: proportion of distribution of reward for directors (chairman and vice chairman included) in 2018.

Discussion process: All directors sidestepped from the discussion, except for independent directors.

All directors sidestepped from the discussion, except for independent directors. The meeting was chaired by the Independent Director, Mr. Yu-Cheng Chiao. The proposal has been approved in the 6th meeting of the 4th Round of Compensation Committee, and the chairperson consulted all the independent directors. Based on the resolution Proposal 1, the total amount of the rewards to the directors is NT\$ 215,087,848; 75% of the rewards are distributed to 15 directors (independent director excluded); 25% is distributed to Chairman Chang An Ping.

3. Targets for BOD competency improvement in the current and previous years and performance evaluation:

1. BOD emphasizes composition diversity, with members equipped with role-related knowledge, skills and industrial backgrounds. After listening to the reports presented by the management team, directors will give them instructions and advice and maintain good communication with the management team, in order to maximize benefits for shareholders. Eight meetings of the 16nd Round of BOD were held during June 2018 to March 2019, complying with the requirement of at least one meeting of every quarter. The key proposals are all disclosed on MOPS for the sure disclosure.

2. The BOD is committed to establishing a sound BOD governance system, boosting supervision capacity, and improving the management function, in order to fulfill the requirements specified in the Rules of Procedure for Board Meetings.

<sup>1.</sup> Matters specified in Article 14-3 of the Securities and Exchange Act and objections or qualified opinion for the records or with written statements of independent directors to other BOD resolutions: NA.

<sup>2.</sup> Avoidance from proposals with conflicts of interest by directors:

<sup>(1)</sup> March 28, 2018, 21st meeting, 22nd Round

Discussion process: Chairman Chang An Ping and directors Chang Kang-Lung, Jason and Yu-Cheng Chiao sidestepped from the discussion for conflicts of interest, and Director Wang Por-Yuan became the acting chair of the board meeting. After discussions, directors unanimously agreed with the proposals as follows:

Proposals 1-3 were approved on principle, However, fund utilization should be explained in the next board meeting. Fro the Proposal 2, the Board Secretariat was requested to have the Chia Hsin Foundation

supplement the mission of establishment, purpose of funds, and the promise of execution; The effect report shall be provided after completion; also the proposal 4 was agreed to donate NT\$5 million to Hualien Incubation Center, but the matters related to its launch and establishment shall be explained in the next board meeting.

#### 3.3.2 Operation of the Audit Committee

#### **Information Regarding Audit Committee Operation**

During January 1, 2018 to June 21, 2018, 1st Audit Committee held a total of five meetings (A), the attendance of independent directors is as follows

| Title                | Name           |   |   | Date of actual attendance (%) [B/A] | Note |
|----------------------|----------------|---|---|-------------------------------------|------|
| Independent Director | Yu-Cheng Chiao | 5 | 0 | 100                                 |      |
| Independent Director | Victor Wang    | 5 | 0 | 100                                 |      |
| Independent Director | Jhen-Ming Yeh  | 4 | 1 | 80                                  |      |
| Independent Director | Sheng Chin Jen | 4 | 1 | 80                                  |      |

Other information required for disclosure:

1.The date, session, proposal, and resolution of the Audit Committee specified and the opinion expressed by the Audit Committee on matters specified in Article 14-5 of the Securities and Exchange Act and unapproved by the Audit Committee but resolved by over two thirds of all directors: NA.

2.When there is avoidance of conflicts of interest by an independent director, the name of that independent director, the involved proposal(s), the cause(s) of the avoidance of conflicts of interest, and the participation in voting of that director shall be specified: NA.

3.Communication between independent directors and the internal chief auditor and accountants (e.g. the matters, methods and outputs of communication on organizational financial status and business

(1)Committee members shall submit audit reports and follow-up reports to the committee convener for review at least once a month. Committee members shall also report the audit outputs, improvement of audited defects, and organizational financial and business status. The committee convener shall comment such reports.

(2)The internal chief auditor and accountants shall attend a committee committee comments such reports.

(2)The internal chief auditor and accountants shall attend a committee meeting as guests to report to the committee on the methods, scope, and important adjustments and their contents of the internal audit. Accountants shall also present reports on communication with the governance body regularly and maintain adequate communication with independent directors. Other than the communications in the meeting, the Chief auditor, Accountants, and the independent directors may contact and communicate with each other directly if needed, to maintain good relationships.

(3).Matters communicated among the independent directors, internal Chief auditor, and appointed accountants are as the following:

| Date of<br>Meeting | With the internal Chief aud<br>Matter Communicated  | litor<br>Outcomes  | With the appointed accountants  Matter Communicated Outcomes   |        |  |  |  |
|--------------------|---|--|--|--------|--|--|--|
| 2018/3/28          | 1.Execution report and communications regarding the audit for Q4, 2017 2.2017 Statement of Internal Control System. | 1. Noted 2. After discussion, the statement is proposed to the BOD for resolution. | 1.The CPAs reported the audited financial reports of 2017 2Report of regulatory changes. 3.The CPAs communicated with the attendees and answered their questions.                                  | Noted. |  |  |  |
| 2018/5/10          | 1.Execution report and communications regarding the audit for Q1, 2018  | Noted.   | 1.Supplement explanations regarding the audited financial reports of Q1, 2018 by the CPAs 2.Report of regulatory changes. 3.The CPAs communicated with the attendees and answered their questions. | Noted. |  |  |  |

During June 22, 2018 to March 31, 2019, the 23rd Audit Committee held a total of eight meetings (A), the attendance of independent directors is as follows

| Title                | Name                   |   | Attendances<br>by proxy | Date of actual attendance (%) [B/A] | Note |
|----------------------|------------------------|---|-------------------------|-------------------------------------|------|
| Independent Director | Yu-Cheng Chiao         | 6 | 2                       | 75                                  |      |
| Independent Director | Victor Wang            | 8 | 0                       | 100                                 |      |
| Independent Director | Sheng Chin Jen         | 5 | 3                       | 62                                  |      |
| Independent Director | Lynette Ling-Tai, Chou | 8 | 0                       | 100                                 |      |

Other information required for disclosure:

1. The date, session, proposal, and resolution of the Audit Committee specified and the opinion expressed by the Audit Committee on matters specified in Article 14-5 of the Securities and Exchange Act and unapproved by the Audit Committee but resolved by over two thirds of all directors: NA.

2. When there is avoidance of conflicts of interest by an independent director, the name of that independent director, the involved proposal(s), the cause(s) of the avoidance of conflicts of interest, and the participation in voting of that director shall be specified: NA.

3. Communication between independent directors and the internal chief auditor and accountants (e.g. the matters, methods and outputs of communication on organizational financial status and business

(1) Committee members shall submit audit reports and follow-up reports to the committee convener for review at least once a month. Committee members shall also report the audit outputs, improvement of audited defects, and organizational financial and business status. The committee convener shall comment such reports.

(2). The internal Chief auditor and the accountants participate the meeting of the Audit Committee, to report the works of audit, approaches of audit by the accountants, scopes, material adjustment of audit, and the explanation to the Audit Committee. The accountants also regularly report the communications regarding the corporate governance. Other than the communications in the meeting, the Chief auditor, Accountants, and the independent directors may contact and communicate with each other directly if needed, to maintain good relationships

(3).Matters communicated among the independent directors, internal Chief auditor, and appointed accountants are as the following:

| Date of<br>Meeting | With the internal Chief aud<br>Matter Communicated   | litor<br>Outcomes   | With the appointed accou<br>Matter Communicated   | intants<br>Outcomes |
|--------------------|--|---|---|---------------------|
| 2018/6/22          | Explanation of the audit and the works to the new directors after the re-election.                                 | Noted.  | -   | Noted.              |
| 2018/8/10          | Execution report and communications regarding the audit for Q2 2018  | Noted.  | Supplement explanations regarding the audited financial reports of Q2, 2018 by the CPAs  2.Report of regulatory changes  3.The CPAs communicated with the attendees and answered their questions. | Noted.              |
| 2018/10/25         | -  | -   | As there were material investments made<br>by the Company, the CPAs communicated<br>with the<br>independent directors.  | Noted.              |
| 2018/11/13         | Execution report and communications regarding the audit for Q3 2018  | Noted.  | Supplement explanations regarding the audited financial reports of Q3, 2018 by the CPAs  2.Report of regulatory changes  3.The CPAs communicated with the attendees and answered their questions. | Noted.              |
| 2019/3/22          | Execution report and communications regarding the audit for Q4 2018     2018 Statement of Internal Control System. | Noted.     After discussion, the statement is proposed to the BOD for resolution. | 1.The CPAs reported the audited financial reports of 2018. 2.Report of regulatory changes 3.The CPAs communicated with the attendees and answered their questions.                                | Noted.              |

# 3.3.3 Status of governance and the deviations and the cause(s) of deviations from the Corporate Governance Best Practice Principles for TWSE/TPEx Listed Companies, Governance Best Practice (Governance Best Practice)

| Indicator  |        |    | Status  |  |  |  |  |  |  |
|--|--------|----|---|--|--|--|--|--|--|
|  | Yes    | No | Summary Description   | deviations from<br>"Governance<br>Best Practice" |  |  |  |  |  |
| 1.Has the company defined and disclosed its governance best practice principles in accordance with the "Governance Best Practice"?   | √      |    | This company has established the Governance Best Practice Principles with respect to the Corporate Governance Best Practice Principles for TWSE/TPEX Listed Companies, Governance Best Practice established by the Taiwan Stock Exchange (TWSE) and Taipei Stock Exchange (TPEx) and disclosed it on the company website for investor enquiries. Apart from maintaining conformity with related laws and regulations, we have established an effect governance framework in the government system to protect the rights and interests of investors, strengthen BOD competencies, respect the rights and interests of stakeholders, and enhance information transparency.  | NA   |  |  |  |  |  |
| 2. Structure of shareholdings and shareholder's equity (1)Does the company establish and implement internal procedures for handling shareholder suggestions, questions, disputes and litigation?                   | √      |    | (1)We have established and implemented an investor relations mechanism in which the spokesperson and its deputy accepts the suggestions and questions of investors and handle disputes with them. Related department will also accept the suggestions and handle disputes were necessary. No litigation with investors has been   | NA   |  |  |  |  |  |
| (2)Does the company keep an up-to-date list of its dominant shareholders and the parties with ultimate control over its list of dominant shareholders?  (3)Does the company establish and implement a risk control | √<br>√ |    | reported.  (2)BOD's Secretariat and the stock affairs agent keep up with the status of directors, managers, and major shareholders holding 10% or more of shares.  (3)TCC and affiliates maintain financial independence, including   | NA<br>NA   |  |  |  |  |  |
| mechanism and firewall between its affiliates?  (4)Does the company establish internal rules to prevent insider trading using undisclosed information?   | √      |    | transaction banks and credit limits, and the APs and ARs between TCC and affiliates are paid and collected as scheduled.  (4)The BOD passed the "Material Information Handling SOP," and the "Codes of Ethical Management," with applicability covering roles including directors, supervisors, managers, and employees. Strictly abide by and execute the confidentiality SOP for the internal material information, which regulating the members to sidestep from all the conflicts of interests related to their position; they are also prohibited to utilize or leak the undisclosed material information known to them to others, as a prevention of insider trading.                                     | NA   |  |  |  |  |  |
| 3. Organization and functions of BOD (1)Does the company establish and implement a defined policy to diversify board membership?   | √      |    | (1) The number of seats in BOD is determined appropriately with respect to the scale of organizational operations and the shareholdings (stake) of major shareholders, the actual operational needs, the legal requirements, and the articles of incorporation. BOD emphasizes composition diversity, with members equipped with various role-related knowledge, skills and industrial backgrounds that are helpful for the holistic development and operation of the Company. Please refer Note 1 for the Implementation of diversify board member-  | NA   |  |  |  |  |  |
| (2)In addition to a compensation committee and an audit committee established by law, does the company voluntarily establish other functional committees?  | √      |    | ship for individual director.  (2) To promote the organizational sustainable development, ethical management, and the implementation of CSR, the "Committee of Organizational Sustainable Development" was established in the 22nd meeting of the 22nd Round BOD. The status of promotion is reported in the monthly business meetings, or the extraordinary meetings are convened from time to time when needed.   | NA   |  |  |  |  |  |
| (3)Does the company establish a method to evaluate BOD performance and evaluate BOD performance every year?  | √      |    | (3) The Company has established the "Guidelines of Assessment for the BOD's Performance" in the 21st meeting of the 22nd Round BOD, and the annual assessments are conducted regularly. The assessments of the functional committees and the self-assessment of BOD are submitted to the BOD for report. The assessment for the BOD's Performance, 2018 has been completed before March 22, 2019, and has been reported and reviewed in the 8th meeting of the 23rd Round BOD.  The five major aspects are included in measuring items the assessments of the BOD (functional committees):  1. Degree of participations in the Company's operation 2. Enhancement of quality for the decision-making of the BOD | NA   |  |  |  |  |  |

| Indicator   |          |    | the cause(s) of deviations from  |                               |  |
|---|----------|----|--|-------------------------------|--|
|   | Yes      | No | Summary Description  | "Governance<br>Best Practice" |  |
| (4)Does the company regularly evaluate the independence of certified public accountants?  | <b>√</b> |    | 3. Composition and structure of the BOD 4. Election and continuing educations of directors 5. Internal controls The outcomes of assessment of BOD's performance for 2018 are as the following; (1) The holistic average scores for the self-assessment of BOD is 4.5 points (total 5 points) (2) The holistic average scores for the self-assessment of BOD members is 4.5 points (total 5 points) The holistic outcomes of assessment for the BOD's performance shall be valid. (4) All CPA firms and CPAs selected by the company have no conflict of interest with the company and maintain strict independence. In every Q1, the Audit Committee discusses the independence and suitability of CPAs of that year prior to appointing them. The Audit Committee also submit the audit results to BOD for further discussions. On March 22, 2019, BOD and the Audit Committee passed the CPA independent audit (Note 1).   | NA                            |  |
| 4. Does a public company establish or assign a dedicated (concurrent) governance unit or individual to take charge of company's governance affairs (including without limitation to providing directors and supervisors with the data required for business operations, handling affairs relating to holding a board meeting or a general meeting of shareholders, processing company registration and change registration, and producing minutes for board meetings and general meetings of shareholders)? | <b>√</b> |    | On March 22, 2019, the BOD has hired the head of corporate governance, to oversee the corporate governance unit; the Board Secretariat is responsible for contacting, or providing operating information to directors, as well as handle the affairs related to the shareholders' meetings and shares.  The responsibilities include the followings:  (1)Implementing legal compliance, internal audit, and internal control:  Plan suitable systems and the organizational framework for the company to ensure BOD independence and organizational transparency.  (2)Providing directors with information required for business operations.  (3)Drafting and establishing the agenda before a BOD meeting and distributing it to all directors seven days before the meeting for them to understand the contents of related proposals. Directors should be reminded of proposals having conflicts of interest with them.  (4)Registering the AGM date and producing and reporting by the deadline the board meeting notice, annual report, the AGM handbook, and AGM minutes by law; and reporting to the relevant competent authorities after amending the articles of incorporation or re-electing directors.  (5) Implementing company change registration.  (6)Assisting shareholders in handling problems relating to stock affairs. | NA                            |  |
| 5. Does the company establish channels for communication with stakeholders (including without limitation to shareholders, employees, customers, and suppliers), set up a stakeholder section in the corporate website, and respond appropriately to material CSR issues that concern shareholders?  | √        |    | (1)The Company values the balance of rights and obligations with stakeholders (including shareholders, employees, clients, the downand upper stream vendors, banks, and creditors, among other parties). Other than the good communications with each stakeholders, there is a "Stakeholder Page" in the official website, with the contact e-mail address for the stakeholders.  There is a "Corporate Governance Page" in the official website, for the investors to inquire an download the regulations regarding corporate governance.   | NA O4                         |  |

Deviations and

| Indicator  |   |    | Status  |  |  |  |  |  |  |
|--|---|----|---|--|--|--|--|--|--|
|  | Yes   | No | Summary Description   | deviations from<br>"Governance<br>Best Practice" |  |  |  |  |  |
| Does the company appoint a professional agent for stock affairs handle shareholder affairs?     Or: Does the company appoint a transfer agency to organize meetings of shareholder?  | √   |    | We do appoint the Transfer Agency Department of CTBC Bank Co., Ltd. to handle related stock affairs.  | NA   |  |  |  |  |  |
| 7. Information disclosure (1) Does the company set up a website to disclose its financial and governance information?  | √   |    | (1) Via the official website (http://www.taiwancement.com), both Chinese and English version of Investor Page are provided, to disclose the latest updates, financial information, data for shareholders' meetings. These are updated regularly as the references for the investors. The related information also disclosed on MOPS from time to time.  | NA   |  |  |  |  |  |
| (2) Does the company try other means to disclose information (such as setting up an English website, designating personnel to gather and disclose organizational information, effectively implementing the spokesperson system, and posting investor conferences on the corporate website)?  | √   |    | (2) We have designated both the spokesperson and deputy spokesperson and appointed staff to disclose various types of financial information and business information over MOPS and the corporate website. We have also posted the video of investor conferences on the corporate website.   | NA   |  |  |  |  |  |
| 8. Is there any other material information, the operation of corporate governance (including without limitation of employee rights, employee care, investor relations, supplier relations, stakeholder rights, further education for directors and supervisors, the status of implementation of the risk management policy and risk measurement measures, the status of implementation of the customer policy, and the purchase of liability insurance for directors and supervisors), for directors and supervisors)? | \land |    | (1) We have arranged various employee benefits (e.g. allowances, group insurance and so on).  (2) We have established the Education/Training Implementation Regulations to meet with the needs of work and improve work performance.  (3) We hold labor-management meetings regularly to improve labor-management harmony. In addition, we have well defined labor-management relations and labor practices and protect the rights and interests of employee.  (4) We have established the Performance Bonus Accrual and Distribution Regulations to distribute different types of bonus to employees.  (5) We have established related regulations based on the Act of Gender Equality in Employment to protect the rights and interests of employees.  (6) We disclose material information over MOPS and the corporate website by law to protect the rights and interests of investors.  (7) By the date of report publication, directors have received further education as per the Directions for the Implementation of Continuing Education for Directors and Supervisors of TWSE Listed and TPEx Listed Companies. The condition of training is tabulated below.  (8) Directors keep up with related legal information at all times.  (9) The management team reports the business and financial status to BOD regularly.  (10) We have established various internal rules and regulations by law for risk management and assessment.  (11) We have bought insurance for directors and management to lower and disperse the damage caused to the company and shareholders by the illegal acts of directors.  (12) We have signed contractors or purchase orders with affiliates to specify the rights and obligations of each party. Prices are set as per the market status. Where no market price is available, prices are set based on a fair and reasonable principle. | NA   |  |  |  |  |  |

9. Please specify the status of improvement and the prioritized improvements with reference to the Corporate Governance Evaluation results announced by the Corporate Governance Center of Taiwan Stock Exchange Corporation in the previous year.

| Itom        |   |   |
|-------------|---|---|
| Item<br>No. | Governance Evaluation Item  | Status of Improvement and Implementation  |
| 2 . 2       | Does the Company disclose the communications among independent directors and the internal chief auditor and accountants (e.g. the material items, methods and outputs of communication on organizational financial status and business status) on the Company's website?  | The Company has disclosed the communications among independent directors and the internal chief auditor and accountants on Page46-47 of the Annual Report and Company's website.              |
| 2.17        | Does BOD assess the independence of CPAs regularly (at least once a year) and disclose the procedures in detail in the annual report?   | The Company has sufficiently disclosed the assessment of the independence of CPAs Page53 of the Annual Report.  |
| 2.19        | Is actual attendance rate of all the assess directors for BOD meetings over 80% in average?   | When scheduling the meetings, the Board Secretariat will schedule these meetings earlier and inform the secretaries earlier.  |
| 2.21        | Does the Company assigned dedicated personnel for corporate governance, to handle the affairs related to corporate governance, and describe the operation and execution of such unit in the Annual Report and on the Company's website?   | The head of corporate governance has been approved by BOD on March 22, and the related matters are disclosed on the Company's website and Page70-71 of the Annual Report.                     |
| 2.22        | Are the Guidelines/Procedures for Assessment of the BOD's Performance approved by the BOD, and whether such assessment is conducted at least annually, with the disclosure of outcomes in the Annual Report and on the Company's website?   | The Company has disclosed the amended Guidelines for Assessment of the BOD's Performance approved by the BOD on March 22, 2019, and the assessment outcomes of 2018 on the Company's website. |
| 2.23        | Are the Regulations/Guidelines for Assessment of the BOD's Performance approved by the BOD, speechifying that the external assessment shall be executed at least every three years, and conducting the assessment accordingly, with the disclosure of outcomes in the Annual Report and on the Company's website? | The Company has disclosed the amended Guidelines for Assessment of the BOD's Performance approved by the BOD on March 22, 2019, and the assessment outcomes of 2018 on the Company's website. |
| 3.18        | Does the Company has English version of the Company's website in place, including the information of finance, business, and corporate governance?   | The Company has fully disclosed the finance and business information in English on the English version of the Company's website.  |
| 3 . 2       | Does the Company simultaneously report the material information in English?   | The Company has simultaneously report the material information in English.  |
|             |   |   |

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#### Note: Core Capabilities of Directors

|                             |                                |            | Seniority   | Industry Experience |                  |               |                 |              |                               |                  |                              |                                   |                 |                         |
|-----------------------------|--------------------------------|------------|---|---------------------|------------------|---------------|-----------------|--------------|-------------------------------|------------------|------------------------------|-----------------------------------|-----------------|-------------------------|
| Title                       | Director/Nationality           | Gen<br>der | as the<br>Director of<br>the<br>Company                 | Finan<br>cial       | Legal<br>affairs | Com-<br>merce | Tech-<br>nology | Bank-<br>ing | Invest-<br>ment<br>and<br>M&A | Infor-<br>mation | Risk<br>man-<br>age-<br>ment | Opera-<br>tion<br>manage-<br>ment | Instruc-<br>tor | Cement<br>indus-<br>try |
| Chairman                    | Chang An Ping/ROC              | Male       | 25 years  | √                   |                  | √             |                 | √            | √                             | √                | √                            | √                                 | √               | √                       |
| Vice<br>Chairman            | Koo, Kung-Yi/HongKong          | Male       | 2 years   | √                   |                  | √             |                 | √            | √                             |                  | √                            | √                                 |                 | √                       |
| Director                    | Li, Jong-Peir/ROC              | Male       | 0.9 month   | √                   |                  | √             |                 | √            | √                             | √                | √                            | √                                 |                 | √                       |
| Director                    | Chang Kang-Lung,<br>Jason/ROC  | Male       | 7 years<br>(including<br>service<br>as a<br>supervisor) | √                   |                  | √             |                 |              | √                             |                  | √                            | √                                 |                 | √                       |
| Director                    | Eric T. Wu/ROC                 | Male       | 13 years  | √                   | √                | √             |                 |              | √                             |                  | √                            | √                                 |                 |                         |
| Director                    | CHI-WEN CHANG/ROC              | Male       | 3 years   | √                   |                  | √             |                 |              | √                             |                  | √                            | √                                 | √               |                         |
| Director                    | Lin Nan-Chou/ROC               | Male       | 13 years  | √                   |                  | √             |                 |              | √                             |                  | √                            | √                                 |                 |                         |
| Director                    | Kenneth C.M. Lo/ROC            | Male       | 7 years   | √                   |                  | √             |                 | √            | √                             |                  | √                            | √                                 |                 |                         |
| Director                    | Yu Tzun-Yen/ROC                | Male       | 13 years  | √                   |                  | √             | <b>√</b>        |              | √                             |                  | √                            | √                                 |                 |                         |
| Director                    | Chen Chi-Te/ROC                | Male       | 34 years  | √                   |                  | √             |                 |              | √                             |                  | √                            | √                                 |                 | √                       |
| Director                    | Wang Por-Yuan/ROC              | Male       | 10 years  | √                   |                  | √             | √               |              | √                             | √                | √                            | √                                 |                 |                         |
| Director                    | Hsieh Chi-Chia/ROC             | Male       | 16 years  | √                   |                  | √             | √               |              | √                             | √                | √                            | √                                 |                 |                         |
| Director                    | Chien, Wen/ROC                 | Male       | 0.9 month   | √                   |                  | √             |                 |              | √                             |                  | √                            | √                                 |                 |                         |
| Director                    | Chun-Ying, Liu/ROC             | Female     | 0.9 month   |                     | √                |               |                 |              |                               |                  |                              |                                   |                 |                         |
| Director                    | Chih-Chung Tsai/ROC            | Male       | 0.9 month   | √                   |                  | √             |                 |              |                               |                  | √                            | √                                 |                 |                         |
| Indepen<br>dent<br>Director | Yu-Cheng Chiao/ROC             | Male       | 7 years   | √                   |                  | √             | √               |              | √                             | √                | √                            | √                                 |                 |                         |
| Indepen<br>dent<br>Director | Victor Wang/ROC                | Male       | 6 years   | √                   |                  | √             |                 |              | √                             |                  | √                            | √                                 | √               |                         |
| Indepen<br>dent<br>Director | Sheng Chin Jen/ROC             | Male       | 0.9 month   | √                   |                  | √             |                 |              | √                             |                  | √                            | √                                 |                 |                         |
| Indepen<br>dent<br>Director | Lynette Ling-Tai, Chou<br>/ROC | Female     | 0.9 month   | √                   |                  | √             |                 |              |                               |                  | √                            |                                   | √               |                         |

#### Note 2: Criteria of Assessment for Accountant's Independence

| Indicator   | Outcomes of<br>Assessment | Whether being qualified |
|---|---------------------------|-------------------------|
| 1. Is the accountant materially related to the Company directly or indirectly regarding the financial interests?  | NO                        | Yes                     |
| 2. Does the accountant have any financing or guaranteeing relationship with the Company or any director?  | NO                        | Yes                     |
| 3 Does the accountant have a close business relationship or potential employment relationship with the Company?   | NO                        | Yes                     |
| 4. Is the accountant or any member of the audit team also the director, manager, or other position with great influence to the auditing works during the period of audit? | NO                        | Yes                     |
| 5 Does the accountant provide any non-audit services with direct influence to the auditing works to the Company?  | NO                        | Yes                     |
| 6. Does the accountant play the broker of the shares or other securities issued by the Company  | NO                        | Yes                     |
| 7 Does the accountant also defend the Company in legal actions or negotiate the conflicts with any third party or behalf of the Company?                                  | NO                        | Yes                     |
| 8 Is the accountant a relative of any one holding a office that may greatly influence the directors, managers, or the auditing works of the Company                       | NO                        | Yes                     |

# Table Directors and supervisors (now independent directors) take further education courses based own schedule and professional backgrounds, and the arrangements are as follows:

| TitleName                 | Organizer                                    | Course  | Date                     | Leng<br>th | Compli-<br>ance<br>with<br>require-<br>ments |
|---------------------------|--|---|--------------------------|------------|--|
| Chairman<br>Chang An Ping | Center for Corporate Sustainability (Taiwan) | 2018 International Economic Trends and Financial System   | 2018/1/25                | 2          | Yes  |
| 0 0                       | Taiwan Corporate Governance                  | "Coming of AI" and "Inverse Commerce Era"   | 2018/5/28                | 3          | Yes  |
|                           | Association                                  | Analysis and practice of anti money laundry and counter terrorism financing   | 2018/8/24                | 3          | Yes  |
|                           |  | How to detect corporate frauds and the discussion of practical application for big data   | 2018/10/25               | 3          | Yes  |
| Director                  | Taiwan Corporate Governance                  | Analysis of internatioanl and cross-strait new system for anti tax avoidance  | 2018/10/25               | 3          | Yes  |
| Koo, Kung-Yi              | Association                                  | New opportunities for Taiwan amongst the Sino-US trading conflicts  |                          | 3          | Yes  |
|                           |  | How to detect corporate frauds and the discussion of practical application for  |                          | 3          | Yes  |
|                           |  | big data (1st half)   |                          | 3          | Yes  |
|                           |  | How to detect corporate frauds and the discussion of practical application for big data (2nd half)  |                          |            |  |
| Director                  | Taiwan Corporate Governance                  | Analysis of internatioanl and cross-strait new system for anti tax avoidance  | 2018/10/25               | 3          | Yes  |
| Li, Jong-Peir             | Association                                  | New opportunities for Taiwan amongst the Sino-US trading conflicts  |                          | 3          | Yes  |
|                           |  | How to detect corporate frauds and the discussion of practical application for  |                          | 3          | Yes  |
|                           |  | big data (1st half)   |                          | 3          | Yes  |
|                           |  | How to detect corporate frauds and the discussion of practical application for big data (2nd half)  |                          |            |  |
| Director                  | Chinese National Association of              | Tax Reformation and Corporate Governance  | 2018/3/20                | 3          | Yes  |
| Kenneth C.M. Lo           | Industry and Commerce, Taiwan                | Precautions for Board Meetings and AGM in 2018  | 2018/3/27                | 3          | Yes  |
|                           |  | The countermeasures and challenges of money laundry faced by enterprises  | 2018/5/17                | 3          | Yes  |
| Director<br>Wang Por-Yuan | Taiwan Corporate Governance<br>Association   | Analysis of internatioanl and cross-strait new system for anti tax avoidance New opportunities for Taiwan amongst the Sino-US trading conflicts | 2018/10/25<br>2018/10/25 | 3          | Yes  |

| Title/Name                            | Organizer   | Course   | Date                    | Leng<br>th | Compli-<br>ance<br>with<br>require-<br>ments |
|---------------------------------------|---|--|-------------------------|------------|--|
| Director<br>Eric T. Wu                | Corporation Operation Association   | The attack and denfense of hostile M&A, and the responsibilities of directors and supervisors regarding M&A Understand the amendments to the Company Act at once   | 2018/8/10               | 3          | Yes  |
| Director                              | Center for Corporate Sustainability   | The sustainable development and strategies for the engineering service   | 2018/5/4                | 3          | Yes  |
| Yu Tzun-Yen                           | (Taiwan)  Taiwan Corporate Governance Association                               | industry The 13rd session of CEO lecture and the keynote speech Discussion of anti-corruptions in enterprises and the key tasks of risk management for promotion of information security, from the view of the evolution of Bitcoins   | 2018/7/26<br>2018/8/3   | 2          | Yes<br>Yes                                   |
| Director<br>Chang Kang-Lung,<br>Jason | Taiwan Corporate Governance<br>Association                                      | How to detect corporate frauds and the discussion of practical application for big data (1st half)  How to detect corporate frauds and the discussion of practical application for big data (2nd half)   | 2018/10/25              | 3          | Yes  |
| Director<br>Lin Nan-Chou              | Taiwan Corporate Governance<br>Association                                      | The effective implementation of the strategically directing function of directors  | 2018/8/21               | 3          | Yes  |
| Director<br>Hsieh Chi-Chia            | Corporation Operation Association<br>Taiwan Corporate Governance<br>Association | How to determine the enterprise M&A and the case study Analysis of international and cross-strait new system for anti tax avoidance New opportunities for Taiwan amongst the Sino-US trading conflicts How to detect corporate frauds and the discussion of practical application for big data (1st half) How to detect corporate frauds and the discussion of practical application for | 2018/7/27<br>2018/10/25 | 3          | Yes<br>Yes                                   |
|                                       | Corporation Operation Association   | big data (2nd half) Explanations of the amendments to the Company Act  | 2018/10/31              | 3          | Yes  |
| Director<br>Chen Chi-Te               | Taiwan Academy of Banking and Finance Securities & Futures Institute            | Camp for corporate governance and sustainable operation of enterprises  Insider trading  | 2018/9/28               | 3          | Yes  |
| Director<br>Chien, Wen                | Taiwan Corporate Governance<br>Association                                      | Analysis of internatioanl and cross-strait new system for anti tax avoidance New opportunities for Taiwan amongst the Sino-US trading conflicts  | 2018/10/25              | 3          | Yes  |
| Director<br>Chun-Ying, Liu            | Taiwan Corporate Governance<br>Association                                      | Analysis of internatioanl and cross-strait new system for anti tax avoidance New opportunities for Taiwan amongst the Sino-US trading conflicts  | 2018/10/25              | 3          | Yes  |
| Director<br>Chih-Chung Tsai           | Taiwan Corporate Governance<br>Association                                      | Analysis of internatioanl and cross-strait new system for anti tax avoidance New opportunities for Taiwan amongst the Sino-US trading conflicts How to detect corporate frauds and the discussion of practical application for big data (1st half) How to detect corporate frauds and the discussion of practical application for big data (2nd half)                                    | 2018/10/25              | 3          | Yes  |
| Director<br>Yu-Cheng Chiao            | Taiwan Corporate Governance<br>Association                                      | Discussion of the evolution of the tax environment in Taiwan, China, and the USA, and the trend of reform for tax, from the view of the tide of the global anti tax avoidance.   | 2018/4/13               | 3          | Yes  |
|                                       |   | Analysis of internatioanl and cross-strait new system for anti tax avoidance   | 2018/10/25              | 3          | Yes  |
|                                       |   | New opportunities for Taiwan amongst the Sino-US trading conflicts   | 2018/10/25              | 3          | Yes  |
|                                       |   | Al in Taiwanese Industries: how to get the first step? ;Graph & Al - Optimize your Al model  Overview for the design of Al data engine; The scientific practices of manufacturing data   | 2018/12/18 2018/12/18   | 3          | Yes<br>Yes                                   |

| Title/Name                    | Organizer   | Course  | Date       | Leng<br>th | Compli<br>ance<br>with<br>require<br>ments |
|-------------------------------|---|---|------------|------------|--|
| Independent<br>Director       | Chinese National Association of Industry and Commerce, Taiwan | The must-know new regulations and trends of corporate governance for the directors and supervisers in 2019                                | 2018/10/29 | 3          | Yes  |
| Victor Wang                   | Taiwan Corporate Governance<br>Association                    | How to correspond the new reform of laws by enterprises: the key points and discussion of practices for the amendments to the Company Act | 2019/3/21  | 3          | Yes  |
| Independent                   | Taiwan Corporate Governance                                   | The trend and challenges of the governance of information security  | 2018/9/5   | 3          | Yes  |
| Director<br>Sheng Chin Jen    | Association   | The latest trend and analysis of the amendments to the Company Act  | 2018/9/5   | 3          | Yes  |
| Independent                   | Taiwan Corporate Governance                                   | Strategies and planning of enterprises M&A  | 2018/08/03 | 3          | Yes  |
| Director<br>Lynette Ling-Tai, | Association   | How to detect corporate frauds and the discussion of practical application for big data (1st half)  | 2018/10/25 | 3          | Yes  |
| Chou                          |   | How to detect corporate frauds and the discussion of practical application for big data (2nd half)  | 2018/10/25 | 3          | Yes  |

#### 3.3.4 Composition, duties, and operation of the Compensation Committee:

The 18th meeting of the 20th BOD passed on 30 August 2011 the establishment of the Articles of Organization of the Salary and Compensation Committee Charter to establish the Compensation Committee to assess the salary and compensation policies and systems of directors, supervisors, and managers; and establish and review the performance evaluation of directors, supervisors, and managers and the policies, systems, standards, and structures of their salary and compensation based on a professional and objective basis. in 2018 the Compensation Committee held eight committee meetings and submitted related resolutions to BOD for review.

#### (1) Data of Compensation Committee Members

| Iden                                   | Quali<br>fica                            | With a minimum of 5 professional qualification  | years of work experience and                     | d the following |   | Sta | tus | of In    | dep | end       | lenc     | e¹       | Concurrently   |                           |
|--|--|---|--|-----------------|---|-----|-----|----------|-----|-----------|----------|----------|--|---------------------------|
| tity<br>Cate<br>gory                   | tion                                     | College/university<br>instructors or higher<br>levels in commerce, law,<br>finance, accounting or | Passed the qualification examination with proper |                 | 1 | 2   | 3   | 4        | 5   | di<br>oti |          | 8        | as an independent director to other public companies | Note                      |
| Inde-<br>pen-<br>dent<br>Direc-<br>tor | Yu-Chen<br>g Chiao                       |   |  | <b>√</b>        | √ | √   | √   | √        | √   | √         | √        | √        | 2  | Qualifi<br>cations<br>met |
| Inde-<br>pen-<br>dent<br>Direc-<br>tor | Victor<br>Wang                           | √   | √  | √               | √ | √   | √   | <b>√</b> | √   | √         | √        | <b>√</b> | 3  | Qualifi<br>cations<br>met |
| Inde-<br>pen-<br>dent<br>Direc-<br>tor | Sheng<br>Chin<br>Jen                     | √   |  | √               | √ | √   | √   | <b>√</b> | √   | √         | <b>√</b> | √        | 2  | Qualifi<br>cations<br>met |
| Inde-<br>pen-<br>dent<br>Direc-<br>tor | Lynette<br>Ling-Tai,<br>Chou<br>(Note 2) | √   | √  | √               | √ | √   | √   | √        | √   | √         | √        | √        | 2  | Qualifi<br>cations<br>met |

<sup>1</sup> Check "{/}" the qualifications appropriate to each director and supervisor who meet such qualifications two years before assumption of office or at the time of assumption.

#### (2) Operation of the Compensation Committee

1. Our Compensation Committee consists of four members.

2. Length of the current term: June 22, 2018 to June 21, 2021. The Compensation Committee held three committee meetings (A) in the previous years, and the qualifications and attendance record of members are as follows:

| Title            | Name                  | Actual atten<br>dances (B) | Attendances<br>by proxy | Rate of actual attending (%) [B/A] | Note  |
|------------------|-----------------------|----------------------------|-------------------------|------------------------------------|---|
| Convener         | Yu-Cheng Chiao        | 6                          | 2                       | 75%                                | The committee member was re-elected after the directorial |
|                  |                       |                            |                         |                                    | re-election on June 22, 2018.                             |
| Committee member | Victor Wang           | 8                          | 0                       | 100%                               | The committee member was re-elected after the directorial |
|                  |                       |                            |                         |                                    | re-election on June 22, 2018.                             |
| Committee member | Sheng Chin Jen        | 6                          | 2                       | 75%                                | The committee member was re-elected after the directorial |
|                  |                       |                            |                         |                                    | re-election on June 22, 2018.                             |
| Committee member | Lynette Ling-Tai, Cho | ou 5                       | 0                       | 100%                               | Newly elected on June 22, 2018, and should attend in five |
|                  |                       |                            |                         |                                    | committee meetings.                                       |

#### 3.3.5 CSR performance

|   |        | Deviations and the cause(s) of |   |  |  |  |
|---|--------|--------------------------------|---|--|--|--|
| Indicator   |        |                                | Status  | deviations from the Corporate Social Responsibility Best |  |  |
|   | Yes    | No                             | Summary Description   | Practice Principles for<br>TWSE/TPEx Listed Companies    |  |  |
| I. Implementing governance     Does the company establish a defined corporate social establish policy or custom and socious the effectiveness of  | √      |                                | (1) Passed the establishment of the Corporate Social Responsibility   | NA NA  |  |  |
| responsibility policy or system, and review the effectiveness of their implementation?  |        |                                | Best Practice Principles, the Company implement the operation philosophy of "a green environmental engineering company focusing on dealing the complicated relationship between human civilizations and the mother nature;" and enhance competitiveness, maximize resource recycling, lower unit energy consumption, and reduce waste production to achieve the sustainable development and fulfill CSR.  |  |  |  |
| <ul> <li>(2) Does the Company organize CSR training and education activities regularly?</li> <li>(3) Does the company establish a dedicated (concurrent) department to implement corporate social responsibility? Does BOD delegate highest governance body to handle CSR matters and report on its implementation?</li> </ul>  | √<br>√ |                                | (2) We arrange CSR awareness education and education/training information irregularly at the monthly meeting.  (3) In 2018, the BOD approved the establishment of non-statuary "Organization Sustainable Development Committee," chaired by the Chairman, and five task forces were set up, namely "Ethical governance and risk management," "Circular manufacturing," "Sustainable environment and products," "Care to employees," and "Social care." These task forces fully promote the planning of sustainable strategies and execution of proposals, and are responsible for the establishment and reviews to the CSR strategies, system, and managerial guidelines, and implementation of organization sustainable development. It seeks to lower the environmental pollution, provide the secured benefits, as well as cleanse the ecologic system, improve the quality of environment, and create a happy working place. The status and outcomes of   |  |  |  |
| (4) Does the company establish a fair wage and compensation policy, combine employee performance valuation with the CSR policy, and establish clear and effective reward and punishment system?   | √      |                                | executions are regularly reported to the BOD annually.  (4) Based on the compensation survey of the industry, the Company reviews the level of compensation and the system of rewarding annually, to determine a competitive level of compensation. The CSR is only of the indicator. The holistic operating earning of the Company is fully linked to the individual employee's performance, so that the outperforming employees are rewarded. The outstanding performance or inappropriate behavior of any employee is regulated by the "Working Rules."  |  |  |  |
| 2. Developing a sustainable environment  (1) Does the company endeavor to utilize resources more efficiently and use reusable materials which have low impact on the environment?  (2) Does the correction of the environment | √      |                                | (1)In 2018, TCC has won the Leader Awards for Climate for the consecutive year with "the Strategies and Opportunities of Adotping the Climate Changes. In the recent years, TCC has been shifting to the "environmental value chain" actively. With the feature of high-temperature burning of cement kilns, the Company collaboratively treats the wastes from the fire power plants and industries in the science parks for nearly a million tonnes every year. the BS8001 circular economy assessment and certification were introduced. The Company has been certified as "the Optimal" by SGS. The cement produced in the Suao Plant and the Ho-Ping Plant was also awarded with the certificate of environmental label for the cement products from the Environmental Protection Administration. Also our subsidiaries operate eight private incineration plants with an annual disposal capacity of nearly 2 million tonnes to serve a population of about 6.5 million people. That is, TCC is responsible for the waste disposal of 6.5 million people, or 28.2% of Taiwanese households. | NA   |  |  |
| (2) Does the company establish an environmental management system appropriate to the characteristics of its industry?   | √      |                                | (2)Limestone mining, cement production and storage are the main activities of a cement plant. Given that environmental, safety and health impacts are concerned in the manufacturing process, we are committed to take precautionary actions against environmental pollution, bodily injuries, and unhealth, in order to fulfill corporate  | 057  |  |  |

<sup>(1)</sup> Not an employee of the company or its affiliates.
(2) Not a director or supervisor of an affiliate of the company (except for independent directors of the company or its parent company or a subsidiary established in accordance with this Act or the local laws). (3)Not holding more than 1% of the outstanding shares issued by the company or among the top 10 natural person shareholders by the person or his/her spouse or underage children, or in the name of a third

<sup>(4)</sup>Not a director, supervisor or employee of an institutional shareholder holding more than 5% of the outstanding shares issued by the company, or a director, supervisor or employee of an institutional shareholder who is among the top 5 shareholders.

<sup>(6)</sup>Not a director, supervisor, manager or shareholder holding more than 5% of the outstanding shares of a specific company or institution in business or financial relation with the company.

<sup>(7)</sup>spouse to the aforementioned persons.
(8)Not under any of the categories stated in Article 30 of the Company Act.
Note 2: Newly elected as the independent director on June 22, 2018.

<sup>1.</sup> When BOD rejects or modifies the recommendations made by the Compensation Committee, please state the date and session of board meeting, the proposal, BOD resolutions, and settlement on the opinions of Compensation Committee members (if the salary and compensation approved by BOD are superior to that recommended by the Compensation Committee, please specify the differences and

neeting, the proposal, and the settlement of the opinions for and against the resolution.

| Indicator  |        |    | Status   | Deviations and the cause(s) of<br>deviations from the Corporate<br>Social Responsibility Best |
|--|--------|----|--|---|
|  | Yes    | No | Summary Description  | Practice Principles for<br>TWSE/TPEx Listed Companies   |
| (3) Does the company notice the influence of climate change on organizational operations and so to conduct GHG inventories and establish a policy for energy conservation, carbon reduction, and GHG reduction?  | √      |    | social responsibilities, comply with laws and regulations and other requirements. We also make continual improvements. So far, each cement plants of TCC has passed certification for the ISO 14001 environmental management system and the OHSAS 18001 Occupational Health and Safety Assessment Series. At each cement plant, we establish the ESH unit and assign full-time staff to handle air pollution, water pollution, and waste disposal in order to implement pollution control and management at cement plants.  (3) TCC takes the environmental sustainable development as the goal of operation for the Group. From the beginning of plant construction, the waste heat power generation system is installed as the means of energy-saving, reduction of carbon, and recycle of resources. Facing the impacts of global climate changes, TCC has delegated the third party certification services (e.g. SGS) for the inventory of greenhouse gas. The the ISO 14064 – Greenhouse Gas Accounting and Verification has been obtained. Through the outcomes of the inventory, the targets of reduction and priorities are determined, as well as the results of reduction can be confirmed. In 2014, TCC passed the certification of SGS, and became the first domestic cement company installing the ISO 50001 Energy Management System. TCC actively researches the means of resource reuse to replace the natural materials and raw materials. This not only reduces the consumption of the cement products, but also the emissions of the greenhouse gas. In 2018, the BS8001 circular economy assessment and certification were introduced. The Company has been certified as "the Optimal" by SGS. Also there is a war room system for the greenhouse emission established internally to track the greenhouse emissions in each cement factory all the time. The performance of emission is linked to the appraisal, to urge each cement plant continuously optimal the process of cement, lower the unit heat and energy consumption, as well as the emissions of greenhouse gas per tonne of the products. M |   |
| 3. Preserving social welfare (1) Does the company establish management policies and procedures in accordance with relevant laws and International Bill of Human Rights?  (2) Does the company establish employee grievance mechanisms and channels and handle complaints properly?  (3) Does the company provide employees with a safe and healthy | √<br>√ |    | (1)We abide by related laws and regulations and international conventions on human rights, such as gender equality, right to work and non-discrimination. We have also established the Employee Work Rules as per the Labor Standards Act and related laws and regulations (2)We have established a special mailbox for grievances on sexual harassment, and mailbox for comments of employees, to provide employees with grievance channels. We have also established in investor relations section on the corporate website and employee grievance mechanisms and channels.  (3)We have established the Office of Labor Safety and Health  | NA  |
| work environment and arrange regular safety and health education for employees?  (4) Does the company establish a mechanism for regular employee communications and notify employees of operational changes that may bring significant impacts to them in a reasonable manner?   | √      |    | Management to administer affairs relating to labor safety and health throughout the company. We value and continue educating employee on safety and health issues by simulated drills. We also arrange for employees the awareness education and training regarding the management of work environment, equipment and hazardous subsidence.  (4)An internal billboard system is established on the official website. The regular labor-management meetings, labor benefit meeting, and quarterly general meetings are convened, and through the and emails, and annual family day, to establish the communication mechanism with the employees.  |   |

| Indicator   |          |    | Status   | Deviations and the cause(s) of<br>deviations from the Corporate<br>Social Responsibility Best |
|---|----------|----|--|---|
|   | Yes      | No | Summary Description  | Practice Principles for TWSE/TPEx Listed Companies  |
| (5) Does the company establish an effective career development plan for employees?  | √        |    | (5)We value employee training. Though a series of goal-oriented expertise and management, we tailor career development strategy, staff training, and education/training for employees.   | NA  |
| (6) Does the company establish a consumer protection policy to protect customer rights and interests and a grievance mechanism based on its R&D, purchasing, production, operating and service processes?   | <b>√</b> |    | (6)We have established the customer service and customer complaint handling regulations to offer product quality service to customers. We have also established a dedicated laboratory to support each production and sales units and provide cocktail customer service and customer complaint solutions. We conduct customer satisfaction survey every year for the reference of improvement and supervision.   |   |
| (7) Does the company conform with relevant international laws and standards on the marketing and labeling of products and services?   | √ V      |    | (7) We pack cement as per the Commodity Labeling Act. On each package, we label the place of origin, product composition, manufacturing date, and expiry date. For bulk cement, we record the shipping plant, product composition, shipping date in the shipping order, and contain bulk cement with air-tight trucks to prevent fugitive dust.  Products for domestic sales transported by ship are contained in special ships with dust collection equipment and supplied with full shipping documents. Products for export sales are sold and loaded as per international standards and practices. All plants are certified for ISO quality assurance system and the CNS mark. Prior to shipping, all products undergo quality inspections conducted as per the Bureau of Standards, Metrology and Inspection (BSMI) or internal control standards of higher specifications or customer |   |
| (8) Does the company evaluate past environmental and social records of suppliers before conducting business with them? (9) Do the company include clauses for immediate termination or rescission in contracts when a supplier violates its CSR policy and causes significant impacts on the environment and society? | √<br>√   |    | requirements to ensure conformity with customer requirements.  (8) All are remarked in the invitation to tender.  (9) In all contracts, we request suppliers to abide by laws and regulations and meet various environmental regulations to prevent fines. When non-compliance is detected, suppliers shall pay all fines and the company reserves the right to terminate the contract at any time.  |   |
| 4. Reinforcing information disclosure (1) Does the company disclose critical and reliable CSR-related information on its website and the Market Observation Post System?  | √        |    | We post the CSR Report and related information on both the corporate website and MOPS.   | NA  |

<sup>5.</sup> If the company has established own Corporate Social Responsibility Best Practice Principles with reference to the "Corporate Social Responsibility Best Practice Principles for TWSE/T-PEx-Listed Companies," please specify the deviations from its own CSR best practice principles.

the deviations in practice.

<sup>(1)</sup> To actively implement sustainable development, business ethics and integrity, and social responsibilities, BOD approved the establishment of the Organizational Sustainable Development Committee on May 10, 2018, with the company chairman as the committee chief and establishing the following units. Under the committee there are the Ethical corporate management, Circular Manufacture, Environmental and Product Sustainability, Employee Care, and Social Welfare groups to promote CSR together and to report the status of implementation to BOD.

<sup>(2)</sup> We establish and implement step by step the Corporate Social Responsibility Best Practice Principles as per the Corporate Social Responsibility Best Practice Principles for TWSE/T-PEx-Listed Companies

| Indicator | Status | Deviations and the cause(s) of deviations from the Corporat  Social Responsibility Bes |
|-----------|--------|--|
|           |        | Practice Principles fo<br>TWSE/TPEx Listed Companie                                    |

6. Other important information that helps the public understand CSR operation

(1) On November 23, 2018, the ceremony of the "Corporate Sustainability Award" of TCSA was held. TCC (TW1101) has won seven individual awards, including "Social Inclusion," "Circular Economy Leadership," and "Climate Leadership." It is the best performance of TCC ever.

(2) TCC was also ranked the best of manufacturers, and 17th place among the large enterprises in the "Excellence in Corporate Social Responsibility Award" sponsored by Commonwealth Magazine.

(3) In 2018, TCC launched the "astaxanthin pluvialis soba noodles" and the "astaxanthin skincare series." These products are developed via the core technologies of "carbon capture system with calcium looping," "carbon fixation microalgae culture," and "extraction of astaxanthin," to create new opportunities of circular economy.

(4) The collaborative waste treatment of TCC partners with paper-maker, water purification plants, chemicals plants, and steel makers. This demonstrates the capability of TCC, and the implementation of the philosophy "environmental service integration."

■ Establishment of green logistics: the high-efficient energy-saving the transportation regarding the operation aspect.

The major part of cement production concentrates in the eastern area, but the constructions and developments tend to be at the western area. To reduce the environmental impacts from the transportation of products (e.g. carbon emission, and environmental impacts), TCC constructed the Hoping Harbor to promote the production model uner the circular economy, integrating the port, the plant, and power generation. The maritime shipment is the main means of transportation, so the carbon footprints resulted from the material transportation, product production, and product transportation may be reduced, and which in turn, helps the users of TCC lower their carbon emissions. Meanwhile, to preserve the marine ecology, and reduce the carbon emission from using electricity, the Hoping Harbor applies the latest shore power technology to reduce the fuel of ships.

■ Production of environmental cement: the design of low-carbon cement regarding the product

TCC strives to produce the low-carbon cement. The carbon emission of per unit product is the lowest among peers, and the golden star certificate from the Environmental Protection Administration and the low-carbon cement certificate in China are obtained. At the same time, all the cement is packed with the recyclable paper bags (100% degradable material). The paper recycle is also promoted to the users. the pallets for product transportation are also promoted for the recycle and reuse.

(5) Environmental protection

1) Environment policy and contributions of Hoping Cement Complex

Right at the planning of factory construction, we have adopted the most advanced fully sealed storage and conveyor system that maintain landscaping and environmental protection at the same time and the low NOx process and equipment. In addition, we have installed the continuous emission monitoring system (CEMS) on the main exhaust stacks to stringently control exhaust quality to ensure all emissions are superior to the national standard. Furthermore, as the complex is closed to the Toroko National Park, we have established a landscape park of nearly 20 hectares to achieve: cement plant as a park. We also recover the waste coal ash and desulfurized gypsum from the nearby the Hoping Power Plant as materials for waste to resources.

Known as the "good neighbor" of local residents, the Hoping Cement Complex has been engaging in the following work over time: (1) job guidance for local residents; (2) provision of venues for Mennonite Christian Hospital to set up an outpatient clinic for residents to access medical attention more conveniently; (3) provision of various activity facilities, such as basketball courts, for local residents to use; (4) emergency assistance; (5) charitable donations; (6) provision of grants and scholarships.

2) Beautification of Hoping Harbor

The Hoping Harbor has applied for the Ecological Port to the EU in 2018. The first stage of review has been done, the water and environment meet, even outperform the EU standards. Hoping Harbor implements environmental protection as per its commitments made in the environmental assessment. It has established various environmental management regulations based on environmental assessment standards with an environmental expense nearly NT\$10 million. In addition, we have purchased cleaning vessels to clean up drifting items and refuse in the harbor waters and green the harbor area by zone to achieve the goal of "harbor greening". The harbor storage and transportation system has a sealed corridor conveyor belt design to reduce fugitive dust from materials. Automatic loading and unloading machines are equipped on the harbor to reduce transportation volume and thereby air pollution in the harbor area.

3) Environmental protection and contributions of Hoping Coal-Fired Power Plant

The plant is equipped with edgy air pollution prevention equipment, including the sealed fuel coal storage and transportation system, electrostatic precipitator, flue gas desulfurization (FSD) equipment, selective catalytic reduction (SCR) equipment, low NOx burner, and CEMS, to effectively control the SOx and NOx emitted from the exhaust stacks to meet the high domestic standard. The plant also collaborates with the Hoping Cement Complex to achieve waste to resources. Contributions to neighborhoods include (1) subsidization for community construction and development; (2) subsidization for local activities relating to social welfare, public order, healthcare, environmental protection, fire prevention, emergency assistance, and festivities.

(4) Ecological conservation

1) Dr. Cecilia Koo Botanic Conservation Center (KBCC)

KBCC was established in 2007 with the great support of Leslie Koo Cheng-Yun and Dr. Cecilia Koo. For the long time, TCC has spent money and human resource to make the foundation of KBCC to be research. By March 31, 2019, KBCC has successfully cultivated 32,465 species of plants from different parts of the world, the most in Asia. The collection of Orchidaceae, Bromeliaceae, and Pteridophyta are even the top of the world, turning Taiwan into a global botanic conservation center. There are nearly 80,000 plants in collection by the KBCC, and each is equipped with a computer tag and barcode acting like an ID card to provide information including the species name, place of origin, and plantation background. To achieve the total quality life policy, we implement sustainable development and environmental conservation in real action. This is the unchanged TCC philosophy. Through the international academic interactions, KBCC participates the world tropical plants conservation program, and becomes a world-class conservation center of plants .

From 2018, it has sought to expand the communication with the stakeholders, and started to promote and share the rich resources of research with the public. The partners include the governmental agencies, organizations, schools, and domestic/overseas media, even to the social media for the first time. The philosophy of environmental sustainability and plant conservation that TCC cares about most is deeply rooted. The concepts of promotions are as the following:

1.2018 Taichung World Flora Exposition --Combining the thematic events of tourism and large curation of exhibition, we closely contact, communicate, and interact with the public.

2.Campus restoration and conservation for the species specific in Taichung area--Go to campus and working with the education bureau for each county and city, to lead faculty and students participating the restoration of native species.

3.National Geography Channel--Working with the world-renown channel to demonstrate the spirit of conservation in Taiwan to the world.

4.YIT media video: the research assistant of KBCC, Shin-jie Hung--Via the famous social media of Taiwan and China, the communication with the netizers. The clicks of this video of "Jie God" of KBCC have been over 10 million times.

Status

Deviations and the cause(s) of deviations from the Corporate Social Responsibility Best Practice Principles for TWSE/TPEx Listed Companies

7. If the company's the CSR report has been verified by a certification body, please specify.

The 2016 CSR report was prepared in 2018, complying with the "Core Options" of the GRI Sustainability Reporting Standards (GRI Standards) promulgated by the Global Reporting Initiative (GRI).

Also it referred to the "Mining and Metals Sector Supplement" of GRI. We also delegated SGS Taiwan Ltd. For AA1000 verification.

#### 3.3.6 Ethical Corporate Management

#### Performance in Ethical Corporate Management

| Indicator  |        |    | Operation   | Deviations and the cause(s) of<br>deviations from the Ethical<br>Corporate Management Best |
|--|--------|----|---|--|
|  | Yes    | No | Summary Description   | Practice Principles for TWSE/TPEx Listed Companies   |
| 1. Establishing ethical corporate management policies and programs  (1) Does the company declare its ethical corporate management policies and procedures in its regulations and external documents, as well as the commitment made buy BOD and management to implement such management policies?  (2) Does the company establish programs to prevent unethical conduct and specify and implement operating procedures, code of conduct, punishment forviolation, and grievance mechanisms in such programs? | √      |    | (1) To fulfill CSR, we have built an enterprise with an equal emphasis on "quality, character, and taste" to uphold culture and respect people. We also adhere to integrity and service enthusiasm to go beyond the service expectation of customers to achieve "customer satisfaction", establish sound relations with suppliers and customers, and pursue sustainable development and growth of the enterprise are our aims. We also specify our corporate mission, BOD structure, the management team on the corporate website in order to achieve ethical corporate management.  (2) We have established the Ethical Corporate Management SOP to define the procedures to achieve ethical corporate management. | NA   |
| in such programs?  (3) Does the company take precautionary actions to prevent business activities identified as high-risk unethical conduct as specified in paragraph 2, Article 7 of the Ethical Corporate Management Best Practice Principles for TWSE/TPEx-Listed Companies or in other scope of business?  | √      |    | (3) External donations up to a certain amount must be reported to BOD for approval. The audit unit also checks if bribes or other undue advantages are offered or received at all times. Furthermore, as foreign investors hold over 30% of our stake, we are prohibited from making political contributions by law.  |  |
| 2. Implementing ethical corporate management (1) Does the company evaluate the ethical record of its counterparties and explicitly include clauses on ethical conduct in transaction contracts? (2) Does the company establish a dedicated (concurrent) unit to implement ethical corporate management under BOD and to report the status of implementation to BOD regularly?  | √<br>√ |    | (1) Apart from establishing the Supplier Integrity and CSR Undertaking to request suppliers to strictly follow it, we evaluate suppliers regularly.  (2) To actively implement sustainable development, business ethics and integrity, and social responsibilities, BOD approved the establishment of the Organizational Sustainable Development Committee on May 10, 2018, with the company chairman as the committee chief and establishing the following units. The regular reports to the BOD are required.   | NA   |
| (3) Does the company establish and implement a policy to prevent conflicts of interests and provide suitable channels for reporting such conflicts?  | √      |    | (3) In the Corporate Social Responsibility Best Practice Principles, we specify the need to respect social ethics and consider the rights and interests of other stakeholders while performing CSR. In addition, when pursuing sustainable development and profitability, we should not spare environmental, social and governance factors but include then in the organizational management and operations.  |  |
| (4) Does the company establish an effective accounting system and an internal control system to implement ethical corporate management, and the internal audit unit or a CPA audit such systems regularly?   | √      |    | (4) The internal chief auditor is appointed by the rule and equipped with academic achievements and defined delegation to carry out his work. The chief auditor may amend the internal control system at any time as per related laws and regulations and shall faithfully perform the self-inspection and internal audit within the internal   | 061  |

060

| Indicator  |     |    | Operation  | Deviations and the cause(s) of<br>deviations from the Ethical<br>Corporate Management Best |
|--|-----|----|--|--|
|  | Yes | No | Summary Description  | Practice Principles for TWSE/TPEx Listed Companies   |
| (5) Does the company regularly organize internal and external education and training activities for ethical corporate management?  | √   |    | control system. The chief auditor should also submit the audit reports of audit units to the Audit Committee for review and attend BOD meetings as a guest to present audit reports.  (5) In 2018, all employees of TCC signed the "Statement of Ethical Codes and Regulations" upon the completion of training.   |  |
| 3. Operating the whistleblowing system (1) Does the company establish explicit whistleblower and reward schemes and convenient reporting channels, and assign appropriate personnel to investigate the target of a whistleblower report?  (2) Does the company establish an SOP to accept and investigate whistleblower complaints and related mechanisms to ensure confidentiality?  (3) Does the company establish measures to protect whistleblowers against retaliation? | √   |    | (1) No whistleblower and incentive scheme has been established. However, we encourage any reports of illegal acts or acts offending the Code of Ethical Conduct, enhance the awareness education of ethics, and incentivize employees to report any suspicious or confirmed illegal acts or acts offending the Code of Ethical Conduct to managers, the internal chief auditor, or any other appropriate staff. Employees should also provide sufficient and adequate information for proper follow-up.  (2) No SOP to accept and investigate whistleblower complaints related mechanisms to ensure confidentiality has been established. The Audit Office will process complaints and maintain confidentiality according to related organizational SOPs.  (3) We will handle a complaint in absolute confidentiality and ensure employees to understand our efforts to ensure whistleblower protection. | NA   |
| Reinforcing information disclosure     Does the company disclose the ethical corporate management principles and its effectiveness on the corporate website and the MOPS?  | √   |    | (1)We disclose our ethical corporate management policy on the corporate website at http://www.taiwancement.com.  We also disclose such policy on the English and Simplified Chinese corporate websites at http://www.taiwancement.com.   | NA   |

<sup>5.</sup> If the company has established own ethical corporate management best practice principles in accordance with the Ethical Corporate Management Best Practice Principles for TWSE/T-PEx-Listed Companies, please specify the status of operation and deviations:

The 14th meeting of the 20th BOD passed the establishment of the Ethical Corporate Management Best Practice Principles, which was amended at the 5th meeting of the 22nd BOD. The Audit Office supervises and implements policies relating to ethical corporate management as per our Ethical Corporate Management Best Practice Principles and the Ethical Corporate Management Best Practice Principles for TWSE/TPEx-Listed Companies.

6. Other material information that helps understand the operation of the company's ethical corporate management (such as the company review of its ethical corporate management best practice principles):

The major banks for transactions with affiliates hold certain credit ratings and are at certain scales. In addition, we have established the Customer Sales Credit Management Regulations and evaluate suppliers regularly by assessing related risk items and perform control with the SAP systems

## 3.3.7 If the company has established the Governance Best Practice Principles and related regulations, please disclose the methods to access them.

The 14th meeting of the 20th BOD passed the establishment of the Ethical Corporate Management Best Practice Principles, which was amended at the 5th meeting of the 22nd BOD. Related regulations are accessible from the Investors section on our website at http://www.taiwancement.com/#Invest\_4\_2\_3.

The 8th meeting of the 22nd BOD passed the amendment to the Application for Suspension or Resumption of Transactions SOP and the Governance Best Practice Principles. The 12th meeting of the 22nd BOD passed the amendment to the Corporate Social Responsibility Best Practice Principles.

# 3.3.8 Other material information that is helpful for understanding the status of implementation of corporate governance:

(1)We timely disclose material information and hold investor conferences regularly.

(2) The 14th meeting of the 20th BOD passed the establishment of the Ethical Corporate Management Best Practice Principles. (3) We produced and published CSR reports.

(A)Internal audit: Data or information disclosed in this report have/has been provided by responsible departments after confirmation by the CSR report team and reviewed and approved by the chairman after being submitted to the department heads.

(B)External audit: Report compliance with the Core disclosure principle in the GRI Standards has been verified and assured by SGS Taiwan Ltd.

(C)with reference to the requirements for Core disclosure principle of the GRI Standards and the Moderate Assurance in Type 1, AccountAbility 1000 Assurance Standard. Please refer to the indices for related assurance/verification methods and results.

(D)The said CSR report has been disclosed on our corporate website and MOPS.

(4) The further education and training relating to corporate governance attended by our managers are as follows:

| Title/Name                                   | Organization   | Course  | Date                  | Length |
|--|--|---|-----------------------|--------|
| Principle accounting officer<br>Guo-Hong Yeh | Accounting Research and Development Foundation in Taiwan | Further Education Course for Principal<br>Accounting Officers of Issuers, Securities Firms<br>and Stock Exchanges | 2018/12/24~2018/12/25 | 12     |
| Chief auditor<br>Xiao-En Tseng               | Accounting Research and Development Foundation in Taiwan | How the internal auditor detect risks and respond the risk well   | 2018/10/16            | 6      |
|  |  | Summary of the Latest Amendments to Labor<br>Laws and Internal Control Practice for Recent<br>Corruption          | 2018/10/30            | 6      |



#### 3.3.9 Implementing the internal control system

#### 3.3.9.1 Statement of internal control

# **Taiwan Cement Corporation Statement of Internal Control**

Date: March 28, 2019

With regards to results of the 2018 self-evaluation of the internal control system, we hereby declare as follows:

- We acknowledge and understand that it is the responsibility of our BOD and managers to establish, implement, and maintain an internal control system, and we have established such system.
   The purpose is to fairly ensure the effect and efficiency of operations (including profitability, performance and security of assets); the reliability, timeliness, and transparency of financial reporting; and the achievement of legal compliance.
- 2. There is limitation inherent to each internal control system, however perfect the design is. As such, an effective internal control system can only fairly ensure the achievement of the aforementioned goals. Furthermore, the effectiveness of an internal control system may variate as the macro environment and situation change. By equipping our internal control system with a self-monitoring mechanism, we can take immediate corrective actions against any defects once identified.
- 3 Referring to the criteria for determining the effectiveness of an internal control system as specified in the "Regulations Governing Establishment of Internal Control Systems by Public Companies" (the "Criteria"), we judge the effectiveness of design and implementation of our internal audit system. With regard to the management control process, the Criteria divided an internal control system into five elements: a) control environment, b) risk evaluation, c) control operation, d) information and communication, and e) monitoring. Each element in turn contains certain audit items, and shall be referred to the Criteria for details.
- 4. We have evaluated the effectiveness of design and implementation of our internal control system with the such criteria.
- 5. In respect of the findings from the above evaluation, we hold that the design and implementation of our internal control system (including the supervision and management of subsidiaries) by December 31, 2018 were effective to achieve the above goals in terms of the effect and efficiency of operations; the reliability, timeliness, and transparency of financial reporting; and the achievement of legal compliance.
- 6. This statement shall form an integral part of the annual report and the prospectus on this company and will be disclosed to the public. If there is any fraud, concealment and unlawful practice found in the above contents, we shall be liable to the legal consequences under Article 20, Article 32, Article 171 and Article 174 of the Securities and Exchange Act.
- 7. This statement of declaration was approved unanimously by the board meeting held on March 28, 2018 with the presence of all directors attended the meeting.

**Taiwan Cement Corporation** 

Chairman: Chang, An-Ping President: Li, Jong-Peir 3.3.9.2 The company auditing its internal control system by a CPA shall disclose the CPA audit report: NA.

3.3.10 Punishments, major defects, and improvements in the previous year and by the date of report publication of the company or its personnel by the law or for violation of the regulations of the internal control system: NA.

# 3.3.11 Important resolutions made by the general meeting of shareholders and BOD in the previous year and by the date of report publication:

Review of Status of Implementation of Resolutions Made by 2018 AGM

| 2 | Proposal  1. To accept 2017 business report and financial statements.  2. To approve 2017 profit | Resolution Proposal by BOD is approved by voting.   | Results   |
|---|--|---|---|
|   | and financial statements.  | Proposal by BOD is approved by voting.  |   |
|   | 2. To approve 2017 profit  |   | Approval of the 2017 business report and finan statements.  |
|   | distribution proposal.   | Proposal by BOD is approved by voting.  | In the 2017 profit distribution proposal, the amount of cash dividend distributed shareholis NTS 6,360,763,515 (NTS1.5 per share)the sto dividend is 424,050,901 shares (NTS1 per share The ex-dividend base date is 2018/8/1, and cas dividend distribution date is 2018/8/24. |
|   | 3. Approval for increasing capital by issuing new shares.  | Proposal by BOD is approved by voting.  | Already published on MOPS and our corporate website on 2018/6/22.   |
|   | 4. Discussion of the long-term fund-raising proposal   | Proposal by BOD is approved by voting.  | Already published on MOPS and our corporate website on 2018/6/22.   |
|   | 5. Discussion the proposal for amending some articles of the TCC Articles of Incorporation.      | Proposal by BOD is approved by voting,  | Already published on MOPS and our corporate website on 2018/6/22.   |
|   | 6. Discussion of shareholder souvenir distribution.  | Proposal by BOD is approved by voting.  | Already published on MOPS and our corporat website on 2018/6/22.  |
| 1 | 7.Election: election of 19 directors for the 23rd Round (four independent directors included).   | Results-List of directors elected: (1) Chai Hsin R.M.C. Corporation Chang An Ping   Votes: 3,514,783,870 (2) Tai Ho Farming Co., Ltd. Koo, Kung-Yi   Votes: 2,450,812,923 (3) C. F. Koo Foundation Representative: Li, Jong-Peir   Votes: 2,443,577,923 (4) Fu Pin Investment Co., Ltd. Representative: Wang Por-Yuan   Votes: 2,434,505,600 (5) International CSRC Investment Holdings Co., Ltd Kenneth C.M. Lo   Votes: 2,433,237,000 (6) Chia Hsin Cement Corporation Representative: Chang Kang-Lung, Jason   Votes: 2,430,410,746 (7) Fu Pin Investment Co., Ltd. Representative: Hsieh Chi-Chia   Votes: 2,429,802,139 (8) Hsin He Investment Co., Ltd. Representative: CHI-WEN CHANG   Votes: 2,428,912,817 (9) Chinatrust Investment Co., Ltd. Representative: Chun-Ying, Liu   Votes: 2,427,948,278 (10) Chung Cheng Development & Investment Co., Ltd. Representative: Chun-Ying, Liu   Votes: 2,427,934,926 (11) Heng Qiang Investment Co., Ltd. Representative: Chien, Wen   Votes: 2,424,974,839 (12) Shinkong Synthetic Fibers Corporation Representative: Eric T. Wu   Votes: 2,424,456,498 (13) Sishan Investment Co., Ltd. Representative: Lin Nan-Chou   Votes: 2,420,613,621 (14) Chia Hsin Cement Corporation Representative: Chen Chi-Te   Votes: 2,420,339,606 (15) Heng Qiang Investment Co., Ltd. Representative: Chen Chi-Te   Votes: 2,420,339,606 (15) Heng Qiang Investment Co., Ltd. Representative: Chen Chi-Te   Votes: 2,420,339,606 (15) Heng Qiang Investment Co., Ltd. Representative: Chin-Chung, Tsai   Votes: 2,417,365,365 List of directors elected: (16) Victor Wang   Votes: 2,463,150,815 (17) Yu-Cheng Chiao   Votes: 1,818,727,536 (18) Lynette Ling-Tai, Chou   Votes: 1,818,116,652 (19) Sheng Chin Jen   Votes: 1,815,356,443 | Already published on MOPS and our corporat website on 2018/6/22.  |

#### Major BOD resolutions made in 2018 and by the report publication date:

| Important BOD resolutions |   |  |  |  |
|---------------------------|---|--|--|--|
| Meeting Date              | Proposal  | Resolution   |  |  |
| 2018/02/02                | Approval for including the directorial election of 19 directors (including four independent directors) of the 23rd BOD in the 2018 AGM agenda, please review.   | The proposal was unanimously approved by all directors attending the meeting without objections.   |  |  |
|                           | Approval for nominating candidates for the 19 directors (including four independent directors), please review.  | The proposal was unanimously approved by all directors attending the meeting without objections.   |  |  |
|                           | Approval of including the releasing the non-competition restrictions on new directors in the 2018 AGM agenda, please review.  | The proposal was unanimously approved by all directors attending the meeting without objections.   |  |  |
|                           | 4. Approval for organizing the 2018 AGM, please review.   | The proposal was unanimously approved by all directors attending the meeting without objections.   |  |  |
|                           | 5. Approval of the criteria and operating procedures for the nomination and review of director (including independent directors) candidates   | The proposal was unanimously approved by all directors attending the meeting without objections.   |  |  |
|                           | to be elected at the 2018 AGM, please review.  6. Approval for accepting shareholder proposals for the 2018 AGM, please review.   | The proposal was unanimously approved by all directors attending the meeting without objections.   |  |  |
|                           | <ul><li>7. Approval for transferring treasury stocks to the ESO scheme, please review.</li><li>8. Approval for disposing the shares of Taiwan Prosperity</li></ul>  | The proposal was approved in the 1st Round Audit Committee at the 16th meeting, as well as the in the 9th meeting of the 3rd Round Compensation Committee; it was unanimously approved by all directors attending the meeting without objections.  The proposal was approved in the 1st Round Audit Committee at the 16th meeting; it was  |  |  |
|                           | Chemical Corporation held by TCC for deployment diversification, please review.  9. Approval for raising a 5-year-term syndicated loan of not more than NT\$43.2 billion  | unanimously approved by all directors attending the meeting without objections.  The proposal was unanimously approved by all directors attending the meeting without objections.  |  |  |
|                           | to repay existing loans and increase operating funds, please review.  |  |  |  |
|                           | <ol> <li>Approval for providing financing/other endorsements and<br/>guarantees for affiliates as the following, please<br/>review.</li> </ol>  | The proposal was unanimously approved by all directors attending the meeting without objections.   |  |  |
|                           | 11. Approval for amending the Articles of Organization of the Compensation Committee, please review.  | The proposal was approved in the 3rd Round Compensation Committee at the 9th meeting; it was unanimously approved by all directors attending the meeting without objections.   |  |  |
|                           | 12. Approval for formulating the organizational compensation regulations, please review.  | (Discussion process: All managers attending the meeting as guests sidestepped from the discussion.))  The proposal was approved in the 3rd Round Compensation Committee at the 9th   |  |  |
|                           |   | meeting; it was unanimously approved by all directors attending the meeting without objections.  |  |  |
|                           | 13. Approval of total amount of the 2017 compensation for managers, please review.  | (Discussion process: All managers attending the meeting as guests sidestepped from the<br>discussion.)) The proposal was approved in the 3rd Round Compensation Committee at the 9th   |  |  |
|                           |   | meeting; it was unanimously approved by all directors attending the meeting without objections.  |  |  |
| 2018/03/28                | 1. The Business Report of 2017, please review.  | The proposal was approved in the 1st Round Audit Committee at the 17th meeting; it was unanimously approved by all directors attending the meeting without objections,   |  |  |
|                           | 2. Approval of the annual financial statements and the consolidated financial statements of 2017, please review.  | after being inquired by the chair.  The proposal was approved in the 1st Round Audit Committee at the 17th meeting; it was unanimously approved by all directors attending the meeting without objections, after the chair and the standard proposed by the chair.  |  |  |
|                           | Proposal for amending some articles of the TCC Articles of Incorporation, please review.  | being inquired by the chair.  The proposal was unanimously approved by all directors attending the meeting withou objections.  |  |  |
|                           | <ol> <li>Approval for adding the reasons for holding the 2018 AGM and shareholder-related affairs, please review.</li> <li>Approval of the 2017 Statement of Internal Control System, please review.</li> </ol> | The proposal was unanimously approved by all directors attending the meeting withou objections.  The proposal was approved in the 1st Round Audit Committee at the 17th meeting; it was unanimously approved by all directors attending the meeting without objections, after the committee of the comm |  |  |
|                           | To enhance the corporation governance, the appointed CPAs' professionalism, suitability, and independence have been assessed.  It is proposed to continue the delegation, please                                | being inquired by the chair.  The proposal was approved in the 1st Round Audit Committee at the 17th meeting; it wa unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.   |  |  |

#### Major BOD resolutions made in 2018 and by the report publication date:

| Important BOD resolutions |  |   |  |  |
|---------------------------|--|---|--|--|
| Meeting Date              | Proposal   | Resolution  |  |  |
| 2018/03/28                | 7. Approval of the budget for the capital expenditures of the expansion project in Q1 2018, please review  8. Approval for the intention to obtain credit facilities from the following financial institutions, please review.  9. Approval for providing financing/other endorsements and guarantees for affiliates, please review  10. Approval for amending some articles of the Buyback Shares for ESO Regulations, please review.  11. Approval for formulating the BOD Performance Assessment Regulations, please review.  12. Approval of intention of donation, please review. | The proposal was approved in the 1st Round Audit Committee at the 17th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.  The proposal was unanimously approved by all directors attending the meeting without objections.  The proposal was approved in the 1st Round Audit Committee at the 17th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.  The proposal was unanimously approved by all directors attending the meeting without objections.  The proposal was unanimously approved by all directors attending the meeting without objections.  (Discussion process: Chairman Chang An Ping and directors Chang Kang-Lung, Jason and Yu-Cheng Chiao sidestepped from the discussion for conflicts of interest, and Director Wang Por-Yuan became the acting chair of the board meeting.)  After discussions, directors unanimously agreed with the proposals as follows:  Proposals 1-3 were approved on principle. However, fund utilization should be explained in the next board meeting.  Fro the Proposal 2, the Board Secretariat was requested to have the Chia Hsin Foundation supplement the mission of establishment, purpose of funds, and the promise of execution; The effect report shall be provided after completion; also the proposal 4 was agreed to donate NT\$ 5 million to Hualien Incubation Center, but the matters related to its launch and establishment |  |  |
| 2018/5/10                 | 1. Approval of proposal 1, the reward distribution for employees and directors for 2018, pleae review.      2. Approval the proportion of distribution of reward for directors in 2017, please review.   | (Discussion process: All directors sidestepped from the discussion, except for independent directors.)  All directors sidestepped from the proposal for compensation of directors, except for independent directors. The discussion was hosted by Independent Director Victor Wang, and the proposal was approved by the 11th meeting of the 3rd Compensation Committee meeting, as well as all independent directors attended the meeting when being enquired by the meeting chair.  (Discussion process: All directors sidestepped from the discussion, except for independent directors.))  All directors sidestepped from the proposal, except for independent directors. The discussion was hosted by Independent Director Victor Wang, and the proposal was approved by the 11th meeting of the 3rd Compensation Committee meeting and unanimously approved by all individual directors attending the meeting without objections.   |  |  |
|                           | 3. Approval of the profit distribution for 2017, please review.  | The proposal was approved in the 1st Round Audit Committee at the 18th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.   |  |  |
|                           | <ol> <li>Approval for increasing capital by issuing new shares, please<br/>review.</li> </ol>  | The proposal was approved in the 1st Round Audit Committee at the 18th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.   |  |  |
|                           | <ol> <li>Approval of the long-term fund-raising proposal as specified<br/>in the description, please review.</li> </ol>  | The proposal was approved in the 1st Round Audit Committee at the 18th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.   |  |  |
|                           | Approval for issuing unsecured common corporate bonds<br>with a maximum amount below NT\$30 billion, please review.  | The proposal was approved in the 1st Round Audit Committee at the 18th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.   |  |  |
|                           | 7. Proposal for amending some articles of the TCC Articles of Incorporation, please review.  8. Approval of shareholder souvenir distribution, please review.  | The proposal was unanimously approved by all directors attending the meeting without objections.  The proposal was unanimously approved by all directors attending the meeting without objections.  |  |  |
|                           | 9. Review the candidates of directors, please review.  | The proposal was unanimously approved by all directors attending the meeting without objections.  |  |  |
|                           | Approval for adding the reasons for holding the 2018 AGM, please review.     Approval for providing financing/other endorsements and guarantees for affiliates, please review.   | The proposal was unanimously approved by all directors attending the meeting without objections.  The proposal was approved in the 1st Round Audit Committee at the 18th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.   |  |  |

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#### Major BOD resolutions made in 2018 and by the report publication date:

| Important BOD resolutions |  |  |  |  |
|---------------------------|--|--|--|--|
| Meeting Date              | Proposal   | Resolution   |  |  |
| 2018/5/10                 | Approval of intention of donation, please review.      Approval for establishing the Organizational Sustainable Development Committee, please review.  | (Discussion process: Chairman Chang An Ping and directors Chang Kang-Lung, Jasor and Yu-Cheng Chiaom, Chen Chi-Te, and Sheng Chin Jen sidestepped from the discussion for conflicts of interest, and Director Victor Wang became the acting chair of the board meeting.)  Except Chairman Chang An Ping and directors Chang Kang-Lung, Jason, Chen Chi-Te, and Sheng Chin Jen who sidestepped for conflicts of interest, the proposal was approved unanimously by other BOD members at the enquiry of the acting chair.  The proposal was unanimously approved by all directors attending the meeting without objections.  |  |  |
| 2018/5/10                 | <motion> <ol> <li>Approval for purchasing an office building in the Future</li> <li>Science City in Hangzhou, Zhejiang, China, please review.</li> </ol></motion>  | The proposal was unanimously approved by all directors attending the meeting withou objections.  |  |  |
| 2018/6/14                 | 1. The intended overseas investments of the Company are listed as the description, please review.  2. The Company intends to participate the capital increase of China Synthetic Rubber Corporation. please review.  3. Approval for the capital increase in CCC USA Corp. by the Company for USD 26 million, in order to reinvest in the capital increase of its subsidiary Continental Carbon Company, please review.  4. The Company intends to have a strategic partnership with SANKO Holding A.S. in Turkey, to co-develop the Turkish market, please review.  | The proposal was approved in the 1st Round Audit Committee at the 19th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.  The proposal was approved in the 1st Round Audit Committee at the 19th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.  The proposal was approved in the 1st Round Audit Committee at the 19th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.  The proposal was unanimously approved by all directors attending the meeting without objections.  |  |  |
| 2018/6/22                 | Hiring the President of the Company.  Proposed delegation of the 4th round of members of the "Compensation Committee."   | President Li, Jong-Peir sidestepped for this proposal, and the proposal was unanimously approved by all directors attending the meeting without objections.  Four independent directors, namely Victor Wang, Yu-Cheng Chiao, Sheng Chin Jen, and Lynette Ling-Tai, Chou, sidestepped from the discussion for conflicts of interest, and the proposal was unanimously approved by other BOD members.  |  |  |
| 2018/6/28                 | Draft of the operation procedures for the cash dividends, and increasing capital by issuing new shares, please review.      Proposal of increasing capital by issuing preferred shares, issuing GDR of the common shares issued for cash capital increase, and issuing the first batch of overseas unsecured convertible corporate bonds, please review.   | The proposal was unanimously approved by all directors attending the meeting without objections.  The proposal was unanimously approved by all directors attending the meeting without objections.   |  |  |
| 2018/8/10                 | 1. Approval of the consolidated financial statements of Q2 2018, please review.  2. Approval for planning the Q3 2018 operational budget for the first project capital expenditures; 20 phase-five environmental ready-mixture trucks are planned, please review.  3. Proposed amendments to the "Schedule of Approval Authorities," please review.  4. Approval for amending the financing (credit) limit from banks, please review.  5. Approval for providing financing/other endorsements and guarantees for affiliates, please review.  6. Proposal of the compensations and attendance fees for the 23rd Round directors, please review. | The proposal was approved in the 2nd Round Audit Committee at the 3rd meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.  The proposal was unanimously approved by all directors attending the meeting without objections.  The proposal was unanimously approved by all directors attending the meeting without objections.  The proposal was unanimously approved by all directors attending the meeting without objections.  The proposal was approved in the 2nd Round Audit Committee at the 3rd meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.  (Discussion process: Independent directors, namely Victor Wang, Yu-Cheng Chiao, Sheng Chin Jen, and Lynette Ling-Tai, Chou who sidestepped from the discussion for conflicts of interest.)  The proposal was approved in the 4th Round Compensation Committee at the 6th meeting; however, as the independent directors do not receive the rewards for the directors, and they have more responsibilities, the monthly compensation to each independent director is adjusted to NT\$ 150,000.  Other than the independent directors sidestepped due to conflicts of interests, the proposal was unanimously approved by other BOD members with the enquiry from the chair. |  |  |

Major BOD resolutions made in 2018 and by the report publication date:

| Important BOD resolutions |   |  |  |  |
|---------------------------|---|--|--|--|
| Meeting Date              | Proposal  | Resolution   |  |  |
| 2018/10/3                 | Intention to participate the capital increase of International CSRC Investment Holdings Co., Ltd, please review.      Draft of the "Guideline of Employees' Subscription of Preferred Share Issued for Cash Capital Increase," please | The proposal was approved in the 2nd Round Audit Committee at the 4th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.  The proposal was unanimously approved by all directors attending the meeting without objections.   |  |  |
|                           | review.  3. Proposal of purchasing an office i Hangzhou, Zhejiang, China for moving, and purchasing lands, review.  | The proposal was approved in the 2nd Round Audit Committee at the 4th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.   |  |  |
|                           | 4. Proposal of hiring new managers, please review.  | The proposal was approved in the 4th Round Compensation Committee at the 3rd interim meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.  |  |  |
|                           | 5. Proposal of wage adjustment of employees for 2018, please review.  | The proposal was approved in the 4th Round Compensation Committee at the 3rd interim meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.  |  |  |
|                           | Proposal of bonus provision and budget for human resources, please review.  | The proposal was approved in the 4th Round Compensation Committee at the 3rd interim meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.  |  |  |
|                           | 7. The Company intends to sponsor the thematic lanterns in the "Taiwan Lantern Festival in Pingtung," please review.  | it was unanimously approved by all directors attending the meeting without objections after being inquired by the chair. TCC and affiliates will sponsor NT\$ 1.5 million each.  |  |  |
| 2018/10/25                | The Company intends to sign an agreement with the Turkish cement group Ordu Yardımlaşma Kurumu, to establish a joint venture in the Netherlands, and reinvest various cement projects in Turkey, please review.                       | The proposal was approved in the 2nd Round Audit Committee at the 5th interim meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.   |  |  |
| 2018/11/13                | Proposal for participating in the capital increase of E-One Moli<br>Energy Corporation, please review.  | The proposal was approved in the 2nd Round Audit Committee at the 6th meeting; it was unanimously approved by all directors attending the meeting without objections, after  |  |  |
|                           | 2. Proposal of acquisition of equipment from two ready-mix concrete plants of Chai Hsin R.M.C. Corporation in Taoyuan District. Please review.  | being inquired by the chair.  (Chairman Chang An Ping sidestepped due to conflicts of interests, and Kenneth C.M. Lowas the acting chairperson.)  The proposal was approved in the 2nd Round Audit Committee at the 6th meeting Chairman Chang An Ping sidestepped due to conflicts of interests, and it was unanimous by approved by all directors attending the meeting without objections, with the enquirements.   |  |  |
|                           | 3. The Company intend to provide joint guarantee for the investee OYAK Cement Portugal S.A. (name to be confirmed), please review.  4. Approval for providing financing/other endorsements and  | from the acting chair.  The proposal was approved in the 2nd Round Audit Committee at the 6th meeting; it wa unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.  The proposal was approved in the 2nd Round Audit Committee at the 6th meeting; it wa  |  |  |
|                           | guarantees for affiliates, please review.  5. Approval for amending the financing (credit) limit from   | unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.  The proposal was unanimously approved by all directors attending the meeting without the chair of the proposal was unanimously approved by all directors attending the meeting without the chair of the c |  |  |
|                           | banks, please review.  6. Draft of the details regard the preferred share subscription by the employees, please review.   | objections.  The proposal was approved in the 4th Round Compensation Committee at the 4th meeting; it was unanimously approved by all directors attending the meeting withou objections.   |  |  |
| 2018/12/14                | Proposal of purchasing the lands and equipment for the ready-mixing plant in Hsinchu, please review.  | The proposal was approved in the 2nd Round Audit Committee at the 7th meeting; it wa unanimously approved by all directors attending the meeting without objections, afte being inquired by the chair.   |  |  |
|                           | 2. The report of the progress of solar photovoltaic power plant with fishery in Chiayi, and the budget for expansion of scope, please review.   | The proposal was unanimously approved by all directors attending the meeting withou objections.  |  |  |
|                           | 3. Report of the promotion for the 10MWt demo plant in Hoping Plant for carbon capture trial program, and the reuse of the captured carbon for microalgae culture project, with the budgets, please review.                           | The proposal was approved in the 2nd Round Audit Committee at the 7th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.   |  |  |
|                           | A. Approval for planning the 2018 operational budget, please review.     Approval of the planning of the capital expenditure budgets, please review.  | The proposal was unanimously approved by all directors attending the meeting withou objections.  The proposal was unanimously approved by all directors attending the meeting withou objections.   |  |  |
|                           | 6. Approval for providing financing/other endorsements and guarantees for affiliates, please review.  | The proposal was approved in the 2nd Round Audit Committee at the 7th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.   |  |  |
|                           | <ol><li>Approval for amending the financing (credit) limit from<br/>banks, please review.</li></ol>   | The proposal was unanimously approved by all directors attending the meeting without objections.   |  |  |
|                           |   |  |  |  |

### Major BOD resolutions made in 2018 and by the report publication date:

|              | Important BC  | D resolutions  |
|--------------|---|--|
| Meeting Date | Proposal  | Resolution   |
| 2018/12/14   | 8. Approval for planning the 2019 Annual Audit Program, please review.  9. Proposed plan for the trust of the employees' shareholdings, please review.  10. Proposal of adding the "Construction Department," review.                     | The proposal was approved in the 2nd Round Audit Committee at the 7th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.  The proposal was approved in the 4th Round Compensation Committee at the 5th meeting; it was unanimously approved by all directors attending the meeting without objections.  The proposal was unanimously approved by all directors attending the meeting without objections.   |
| 2019/3/22    | 1.Approval of the proposal of reward distribution for employees and directors for 2018, please review.  2. Proposal of proportion of distribution of reward for directors in 2018 (Chairman and Vice Chairman included), please review.   | (Discussion process: All directors sidestepped from the discussion, except for independent directors.)  Except for the independent directors, all other directors sidestepped from the discussion, and the meeting was chaired by Yu-Cheng Chiao. The proposal was resolved in the 6th meeting of the 4th Round of Compensation Committee, and the chairperson consulted all the independent directors who unanimously agreed with the proposal: the rewards to the directors is adjusted from 0.84% to 1%, or NT\$ 215,087,848; the rewards to the employee were approved as proposed.  (Discussion process: All directors sidestepped from the discussion, except for independent directors.)  All directors sidestepped from the discussion, except for independent directors; the meeting was chaired by the independent director, Yu-Cheng Chiao.  The proposal was resolved in the 6th meeting of the 4th Round of Compensation Committee, and the chairperson consulted all the independent directors who unanimously agreed with the proposal: on the basis of the resolved Proposal 1, 75% of |
|              | 3.Approval of the 2018 business plan, review.   | the rewards are distributed to 15 directors (independent director excluded); 25% is distributed to Chairman Chang An Ping.  The proposal was approved in the 2nd Round Audit Committee at the 8th meeting; it was unanimously approved by all directors attending the meeting without objections, after  |
|              | 4.The Consolidated and Parent-Only Financial Statements for 2018, please review.  | being inquired by the chair.  The proposal was approved in the 2nd Round Audit Committee at the 8th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.   |
|              | 5.Approval of the 2017 profit distribution proposal. review.  | being inquired by the chair.  The proposal was approved in the 2nd Round Audit Committee at the 8th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.   |
|              | 6.Approval for increasing capital by issuing new shares for 2018, please review.  | The proposal was approved in the 2nd Round Audit Committee at the 8th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.   |
|              | 7.Proposal of amending some of clauses of the "Code of Ethical<br>Management," please review.<br>8.Approval for amending some articles of the TCC Articles of   | The proposal was unanimously approved by all directors attending the meeting without objections.  The proposal was unanimously approved by all directors attending the meeting without   |
|              | Incorporation, please review.  9.Proposal of amending some articles in the Procedures of the Acquisition or Disposal of Assets, please review.  | objections.  The proposal was approved in the 2nd Round Audit Committee at the 8th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.  |
|              | 10.Proposal of amending some articles in the "Operational Procedures for Loaning of Funds to Others," and the "Operational Procedures for Endorsement and Guarantee," please review.  | The proposal was approved in the 2nd Round Audit Committee at the 8th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.   |
|              | 11.Approval for organizing the 2019 AGM, please review.   | The proposal was unanimously approved by all directors attending the meeting without objections.   |
|              | 12.The 2018 Statement of Internal Control System, please review.  | The proposal was approved in the 2nd Round Audit Committee at the 8th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.   |
|              | 13.To enhance the corporation governance, the appointed CPAs' professionalism, suitability, and independence have been assessed, please review.  14.The delegation of CPAs for the financial reports and the service fees, please review. | The proposal was approved in the 2nd Round Audit Committee at the 8th meeting, it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.  The proposal was approved in the 2nd Round Audit Committee at the 8th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.   |
|              | 15.Proposal of hiring the Head of Corporate Governance please review.   | The proposal was unanimously approved by all directors attending the meeting without objections.   |
|              | 16.Proposal of the "Standard Operation Procedures for<br>Handling the Requests from Directors," please review.  | The proposal was unanimously approved by all directors attending the meeting without objections.   |

Major BOD resolutions made in 2018 and by the report publication date:

|              | Important BO  | D resolutions  |
|--------------|---|--|
| Meeting Date | Proposal  | Resolution   |
| 2019/3/22    | 17.Proposal of amending some articles of the BOD Performance Assessment Regulations, please review.  18.Approval for amending some articles of the "Principles of Corporate Governance," "Code of Ethical Management," please | The proposal was unanimously approved by all directors attending the meeting without objections.  The proposal was unanimously approved by all directors attending the meeting without objections.   |
|              | review.  19.Proposal of amending some articles of the "Guidelines of Releasing Directors' Rewards," please review.  20.Proposal of selling the land occupied by Hai-An Temple in Kaohsiung, please review.                    | The proposal was unanimously approved by all directors attending the meeting without objections.  The proposal was approved in the 2nd Round Audit Committee at the 8th meeting; it was unanimously approved by all directors attending the meeting without objections,  |
|              | 21.Approval for amending the financing (credit) limit from banks, please review. 22.Endorsement and guarantee provided to the re-investee, TCC Renewable Resources Corp., please ratify.                                      | after being inquired by the chair.  The proposal was unanimously approved by all directors attending the meeting without objections.  The proposal was approved in the 2nd Round Audit Committee at the 8th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.   |
|              | 23.Approval for providing financing/other endorsements and guarantees for affiliates, please review.  | The proposal was approved in the 2nd Round Audit Committee at the 8th meeting; it was unanimously approved by all directors attending the meeting without objections, after being inquired by the chair.   |
|              | 24.Proposal of the rewards to the Chairman for 2018, please review.   | (Chairman Chang An Ping sidestepped due to conflicts of interests.)  Chairman Chang An Ping sidestepped due to conflicts of interests. The independent director Yu-Cheng Chiao chaired the meeting.  The proposal has been resolved by the 4th Round Compensation Committee at the 6th meeting: on the basis  of the 2nd proposal, the 25% of the distributable amounts for the directors' rewards is the 2018 reward for Chairman  Chang An Ping. The guidelines for 2019 and years afterward will be discussed later;  As all directors unanimously agreed that the details needing further discussion, the proposal will be submitted in the future meeting of BOD; the current proposal was withdrawn. |
|              | 25.The proposed rewards of the annual bonus and rewards to managers for 2018, please review.  26.The draft of the management guidelines for the expatriates   | The proposal was approved in the 4th Round Compensation Committee at the 6th meeting; it was unanimously approved by all directors attending the meeting without objections.  The proposal was unanimously approved by all directors attending the meeting without   |
|              | to Europe, please review.   | objections.  |
| 2019/5/10    | 1.For the Hoping Branch's participation to the collaborative<br>treatment of waste by the cement industry (kilns) in Hualien<br>County as BOO, the project plan and budget are submitted,<br>please review and discuss.       | The proposal has been approved by the 9th meeting of the 2nd round of Audit Committee, and unanimously approved by the directors after consulted by the chair.   |
|              | 2.The Company intends to implement the third share transfer to the employees from the treasury shares. Please review and discuss  | The proposal has been approved by the 9th meeting of the 2nd round of Audit Committee, and unanimously approved by the directors after consulted by the chair.   |
|              | 3.The Company intends to adjust the managers, please review and discuss   | The proposal has been approved by the 7th meeting of the 4th round of Compensation Committee and the 9th meeting of the 2nd round of Audit Committee, and unanimously approved by the directors after consulted by the chair.  |
|              | 4.The Company intends to request financing facilities from the following financial institutions, please review and discuss.   | The proposal was unanimously approved by the directors after consulted by the chair  |
|              | 5.The Company intends to continue issuing the unsecured common corporate bonds, please review and discuss.  | The proposal has been approved by the 9th meeting of the 2nd round of Audit Committee, and unanimously approved by the directors after consulted by the chair.   |

ests from Directors," please review. objections.

- 3.3.12 Contents of the objections for the records or with written statements of directors or supervisors to important BOD resolutions in the previous year and by the date of report publication: NA
- 3.3.13 Resignation or relief related personnel in relation to the financial statements in the previous year and by the date of report publication: None.
- 3.3.14 Acquisition of licenses and certificates designated by competent authorities by personnel in relation to financial transparence.
- 1. Certified Internal Auditor (CIA): Two staff from the audit department.
- 2. Qualified Internal Auditor (QIA): One staff from the audit department.
- 3. Certified Public Accountant (CPA): Two staff from the financial department.

Name of CPA

### 3.4 Information of CPA audit fee

CPA Firm

| Deloitte Taiwan | Ya-Ling Wong             | Ya-Ling Wong Chih-Ming Shao January 1, 2018 to Decen |               | nber 31, 2018               |  |
|-----------------|--------------------------|--|---------------|-----------------------------|--|
|                 |                          |  |               | (expressed in NT\$ thousand |  |
| Increment       | Public Fee Items         | Audit Fee  | Non-Audit Fee | Total                       |  |
| 1               | Below2,000               |  |               |                             |  |
| 2               | 2,000 (inclusive)-4,000  |  |               |                             |  |
| 3               | 4,000 (inclusive)-6,000  |  |               |                             |  |
| 4               | 6,000 (inclusive)-8,000  |  |               |                             |  |
| 5               | 8,000 (inclusive)-10,000 |  |               |                             |  |
| 6               | Above 10,000 (inclusive) | √  | √             | √                           |  |

### 3.4.1 Amount of non-audit fees paid to a CPA, a CPA firm, and its affiliates above a quarter of the audit fee:

Audit Period

|                 | Non-Audit Fee                  |           |                  |                          |                    |        |          |  |  |
|-----------------|--------------------------------|-----------|------------------|--------------------------|--------------------|--------|----------|--|--|
| CPA Firm        | Name of CPA                    | Audit Fee | System<br>Design | Business<br>Registration | Human<br>Resources | Others | Subtotal | Audit Period                               | Remark   |
| Deloitte Taiwan | Ya-Ling Wong<br>Chih-Ming Shao | 22,475    | -                | -                        | -                  | 13,541 | 13,541   | January 1, 2018<br>to<br>December 31, 2018 | The service fees other than the audit services include the capital increase, bond issuance, tax, and consultant services, for total NT\$ 13,541,000. |

- 3.4.2. The audit fee of the year is lesser than that of the previous years after changing a CPA firm: NA.
- 3.4.3. The audit fee is lesser than that of the previous year by over 15%: NA

- 3.5 Replacement of certified public accountants: NA
- 3.5.1 Information of former CPAs: NA
- 3.5.2 Information of succeeding CPAs: NA
- 3.5.3 Former CPA's reply to sub-paragraph 1 and sub-paragraph 2-3, paragraph 6, Article 10 of the Regulations Governing Information to be Published in Annual Reports of Public Companies: NA
- 3.6 The chairman, president and/or managerial officers in charge of finance or accounting served at the firm(s) or affiliate(s) of the auditing CPAs in the previous year: NA
- 3.7 Changes in the transfer or pledge of shares by directors, managers, and shareholders holding over 10% of the outstanding shares in the previous year and by the date of report publication.

|                      |  | A  | Y 2018                                    | By April 24 of the year                  |  |  |
|----------------------|--|--|---|--|--|--|
| Title                | Name   | Increase (reduction)<br>in shareholdings | Increase (reduction)<br>in pledged shares | Increase (reduction)<br>in shareholdings | Increase (reduction) in pledged shares |  |
| Chairman             | Chai Hsin R.M.C. Corporation Chang An Ping<br>(Inaugurated on 2018/6/22)           | 245,383                                  | 0   | 0  | 0                                      |  |
| Vice Chairman        | Tai Ho Farming Co., Ltd. Koo, Kung-Yi<br>(Inaugurated on 2018/6/22)                | 488,928                                  | 0   | 0  | 0                                      |  |
| Director             | C. F. Koo Foundation Representative: Li, Jong-Peir                                 | 230,890                                  | 0   | 0  | 0                                      |  |
| Director             | Chia Hsin Cement Corporation<br>Representative: Chang Kang-Lung, Jason Chen Chi-Te | 167,075,366                              | 0   | 0  | 0                                      |  |
| Director             | Shinkong Synthetic Fibers Corporation<br>Representative: Eric T. Wu                | 955,465                                  | 0   | 0  | 0                                      |  |
| Director             | Hsin He Investment Co., Ltd.<br>Representative: CHI-WEN CHANG                      | 4,308,157                                | 0   | 0  | 0                                      |  |
| Director             | Sishan Investment Co., Ltd.<br>Representative: Lin Nan-Chou                        | 752,560                                  | 0   | 0  | 0                                      |  |
| Director             | International CSRC Investment Holdings<br>Co., Ltd Kenneth C.M. Lo                 | 8,377,771                                | 0   | 0  | 0                                      |  |
| Director             | Chung Cheng Development & Investment<br>Co., Ltd. Representative: Yu Tzun-Yen      | 2,269,952                                | 0   | 0  | 0                                      |  |
| Director             | Heng Qiang Investment Co., Ltd.<br>Representative: Chien, Wen                      |  |   |  |  |  |
| Director             | Heng Qiang Investment Co., Ltd.<br>Representative: Chih-Chung, Tsai                | 8,271,958                                | 0   | 0  | 0                                      |  |
| Director             | Fu Pin Investment Co., Ltd.<br>Representative: Wang Por-Yuan                       |  |   |  |  |  |
| Director             | Fu Pin Investment Co., Ltd.<br>Representative: Hsieh Chi-Chia                      | 6,268,834                                | 0   | 0  | 0                                      |  |
| Director             | Chinatrust Investment Co., Ltd.<br>Representative: Chun-Ying, Liu                  | 12,509,887                               | 17,000,000(14,000,000)                    | 0  | 0                                      |  |
| Independent Director | Yu-Cheng Chiao   | 0  | 0   | 0  | 0                                      |  |
| Independent Director | Victor Wang  | 0  | 0   | 0  | 0                                      |  |
| Independent Director | Sheng Chin Jen   | 0  | 0   | 0  | 0                                      |  |
| Independent Director | Lynette Ling-Tai, Chou   | 1  | 0   | 0  | 0                                      |  |
| President            | Li, Jong-Peir  | 1,050,000(700,000)                       | 0   | 0  | 0                                      |  |

|   |   | AY 2                                     | 2018                                   | By April 2                               | 24 of the year                         |
|---|---|--|--|--|--|
| Title   | Name  | Increase (reduction)<br>in shareholdings | Increase (reduction) in pledged shares | Increase (reduction)<br>in shareholdings | Increase (reduction) in pledged shares |
| Senior VP   | Huang Chien-Chiang  | 482,560(300,000)                         | 0                                      | 0  | 0                                      |
| SVP (Note 1)  | Ker-Fu Lu   | 460,069(327,000)                         | 0                                      | 0(63,000)                                | 0                                      |
| VP concurrently serving<br>as Head of Corporate<br>Governance | Li-Wen Tsai   | 450,000(300,000)                         | 0                                      | 0(10,000)                                | 0                                      |
| VP (Note 2)   | Bao-Luo Ge  | 247,024(150,000)                         | 0                                      | 0  | 0                                      |
| Senior AVP  | Chien-Chuan Wang  | 226,249(150,000)                         | 0                                      | 0(50,000)                                | 0                                      |
| Senior AVP (Note 3)   | Feng-Ping Liu   | 152,300(100,000)                         | 0                                      | 0  | 0                                      |
| Senior AVP  | Tse-Shen Tsai   | 0  | 0                                      | 0  | 0                                      |
| AVP   | Lin-Tian Huang  | 150,050(100,000)                         | 0                                      | 0  | 0                                      |
| AVP   | Wei-Jue Hong  | 157,525(100,000)                         | 0                                      | 0  | 0                                      |
| AVP   | Jin-Lung Yu   | 159,555(100,000)                         | 0                                      | 0  | 0                                      |
| AVP   | Yuo-Xin Song  | 151,100(100,000)                         | 0                                      | 0  | 0                                      |
| AVP   | Cen-Wei Lan   | 152,639(100,000)                         | 0                                      | 0  | 0                                      |
| AVP   | Koo, Kung-Yi  | 750,000(500,000)                         | 0                                      | 0  | 0                                      |
| AVP   | Yu-Jun Yeh  | 150,000(100,000)                         | 0                                      | 0  | 0                                      |
| AVP (Note 4 and 5)  | Guo-Hong Yeh  | 150,000(100,000)                         | 0                                      | 0  | 0                                      |
| Senior Manager (Note 6)                                       | Xiao-En Tseng   | 155,736(100,000)                         | 0                                      | 0  | 0                                      |
| Senior Manager  | Chia-Pei Wei  | 155,205(100,000)                         | 0                                      | 0  | 0                                      |
| Senior Manager  | Ming-De Li  | 150,000(100,000)                         | 0                                      | 0  | 0                                      |
| Senior Manager  | Yu-Wen Qiu  | 150,000(100,000)                         | 0                                      | 0  | 0                                      |
| Senior Manager  | Cheng-Dao Qiang   | 152,000(110,000)                         | 0                                      | 0  | 0                                      |
| Senior Manager  | Yun-De Wu   | 150,001(100,000)                         | 0                                      | 0  | 0                                      |
| Manager   | Zhi-Ren Liu   | 120,107(80,000)                          | 0                                      | 0  | 0                                      |
| Manager   | Jin-Yi Chen   | 120,000(80,000)                          | 0                                      | 0  | 0                                      |
| Senior Assistant Manager                                      | Zhi-Feng Wu   | 48,670(30,000)                           | 0                                      | 0  | 0                                      |
| Senior Assistant Manager                                      | Bo-Jun Lin  | 0  | 0                                      | 0  | 0                                      |
| Senior Assistant Manager                                      | Zhi-Chun Lai  | 150,000(100,000)                         | 0                                      | 0  | 0                                      |
| Senior Assistant Manager                                      | Chong-Zhi Hong  | 120,000(80,000)                          | 0                                      | 0  | 0                                      |
| Senior Assistant Manager                                      | Zhi-Heng Peng   | 75,000(50,000)                           | 0                                      | 0  | 0                                      |
| Assistant Manager   | Jao-Gui Lin   | 75,000(50,000)                           | 0                                      | 0  | 0                                      |
| Director  | Goldsun Development & Construction Co., Ltd.<br>Representative: Ming-Sheng Lin<br>(Relieved on 2018/6/22) | 0  | 0(2,500,000)                           | 0  | 0                                      |
| Director  | Ching Yuan Investment Co., Ltd.:<br>Representative: Jian-Dong Chen<br>(Relieved on 2018/6/22)             | 0  | 0                                      | 0  | 0                                      |

|                      |  | AY 2                                     | 2018                                      | By April 24 of the year                  |   |  |
|----------------------|--|--|---|--|---|--|
| Title                | Name   | Increase (reduction)<br>in shareholdings | Increase (reduction)<br>in pledged shares | Increase (reduction)<br>in shareholdings | Increase (reduction)<br>in pledged shares |  |
| Director             | He Feng Investment Co., Ltd.<br>(Relieved on 2018/6/22)              | 0  | 0   | 0  | 0   |  |
| Director             | Heng Qiang Investment Co., Ltd.<br>(Relieved on 2018/6/22)           | 8,271,958                                | 0   | 0  | 0   |  |
| Independent Director | Jhen-Ming Yeh<br>(Relieved on 2018/6/22)                             | 0  | 0   | 0  | 0   |  |
| Senior Manager       | Yen-Hsi Chi<br>(Inaugurated date: 2018/5/18)(Relief date: 2019/1/31) | 75,000(50,000)                           | 0   | 0  | 0   |  |

Note 1: On April 1, 2019, Mr. Ker-Fu Lu was promoted to SVP from VP.

Note 2: On April 1, 2019, Mr. Bao-Luo Ge was promoted to VP from Senior AVP.

Note 3: On April 1, 2019, Ms. Feng-Ping Liu was promoted to Senior AVP from AVP.

Note 4: On April 1, 2019, Mr. Kuo-Hong Yeh was promoted to AVP from Senior Manager.

Note 5: Accounting chief.

Note 6: Chief auditor

### 3.7.1 The person to whom shares are transferred or pledged is a related party: NA

### 3.8 Mutual relationships among top ten shareholders

|   |             | shareholdings<br>d minor children |           | ings of spouse/<br>ge children |          | dings in the name<br>a third party | Company Name/Name o<br>or relatives in the 2nd deg   | f related parties, spouse,<br>ree to top ten shareholders                     |      |
|---|-------------|-----------------------------------|-----------|--------------------------------|----------|------------------------------------|--|---|------|
| Name  | Quantity    | Proportion<br>Percentage          | Quantity  | Proportion<br>Percentage       | Quantity | Proportion<br>Percentage           | Name   | Relationship  | Note |
| Chia Hsin Cement Corporation                    | 193,888,706 | 3.80                              | -         | -                              | NA       | NA                                 | Chia Hsin International Co., Ltd.  Chinatrust Investment Co., Ltd.  International CSRC Investment Holdings Co., Ltd.  Heng Qiang Investment Co., Ltd | Also the Chairman of Chia Hsin Cement Corporation  Director of the company    |      |
| Prepresentatire:<br>Chang Kang-Lung, Jason      | -           | -                                 | 214,000   | 0.00                           | NA       | NA                                 | Chia Hsin International Co., Ltd.  | Also the Chairman of Chia Hsin Cement Corporation                             |      |
| Cathay Life Insurance Company, Ltd.             | 157,361,006 | 3.08                              | -         | -                              | NA       | NA                                 | NA   | NA  |      |
| Representative Diao-kuei Huang                  | -           | -                                 | -         | -                              | NA       | NA                                 | NA   | NA  |      |
| Chinatrust Investment Co., Ltd.                 | 137,608,757 | 2.69                              | -         | -                              | NA       | NA                                 | Heng Qiang Investment Co., Ltd.  Chia Hsin Cement Corporation International CSRC Investment Holdings Co., Ltd., Heng Qiang Investment Co., Ltd.      | Also the Chairman of Heng Qiang Investment Co., Ltd.  Director of the company |      |
| Representative: Tian-Yi Huo                     | 19,631,332  | 0.38                              | 2,242,754 | 0.04                           | NA       | NA                                 | Heng Qiang Investment Co., Ltd.  | Also the Chairman of Heng Qiang Investment Co., Ltd                           |      |
| China Life Insurance Co., Ltd.                  | 115,325,915 | 2.26                              | -         | -                              | NA       | NA                                 | NA   | NA  |      |
| Representative Ming-yang Wang                   | -           | -                                 | -         | -                              | NA       | NA                                 | NA   | NA  |      |
| Shin Kong Life Insurance Co., Ltd.              | 110,765,958 | 2.17                              | -         | -                              | NA       | NA                                 | NA   | NA  |      |
| RepresentativeEugene Wu                         | -           | -                                 | -         | -                              | NA       | NA                                 | NA   | NA  |      |
| New Labor Pension Scheme Fund                   | 104,145,550 | 2.04                              | -         | -                              | NA       | NA                                 | NA   | NA  |      |
| Nan Shan Life Insurance Company, Ltd.           | 100,974,700 | 1.98                              | -         | -                              | NA       | NA                                 | NA   | NA  |      |
| Representative Ying-tzyong Tu                   | -           | -                                 | -         | -                              | NA       | NA                                 | NA   | NA  |      |
| Chia Hsin International Co., Ltd.               | 96,717,520  | 1.89                              | -         | -                              | NA       | NA                                 | Chia Hsin Cement Corporation Chia Hsin Cement Corporation  | Also the Chairman of Chia Hsin Cement Corporation  Director of the company    |      |
| Representative: Chang Kang-Lung, Jason          | -           | -                                 | 214,000   | 0.00                           | NA       | NA                                 | Chia Hsin Cement Corporation   | Also the Chairman of Chia Hsin Cement Corporation                             |      |
| International CSRC Investment Holdings Co., Ltd | 92,155,487  | 1.80                              | -         | -                              | NA<br>NA | NA<br>NA                           | Chia Hsin Cement Corporation<br>Chinatrust Investment Co., Ltd.,<br>Heng Qiang Investment Co., Ltd.  | Director of the company   |      |
| Representative: Koo, Kung-Yi                    | 250,000     | 0.00                              | -         | -                              | INA      | IVA                                | NA   | NA NA   |      |
| Heng Qiang Investment Co., Ltd.                 | 90,991,540  | 1.78                              | -         | -                              | NA       | NA                                 | Chinatrust Investment Co., Ltd.  Chia Hsin Cement Corporation Chinatrust Investment Co., Ltd. International CSRC Investment Holdings Co., Ltd.,      | Also the Chairman of Chinatrust Investment Co., Ltd.  Director of the company |      |
| Representative: Tian-Yi Huo                     | 19,631,332  | 0.38                              | 2,242,754 | 0.04                           | NA       | NA                                 | Chinatrust Investment Co., Ltd.  | Also the Chairman of Chinatrust Investment Co., Ltd.                          |      |

### 3.9 Syndicated Shareholdings

The stakes and the syndicated stakes in the same investee of the company; directors, supervisors, and managers of the company; and institutions under the company's direct or indirect control.

| December 31, 2018                              |                  |            |               |   |                       | d in shares and %) |
|--|------------------|------------|---------------|---|-----------------------|--------------------|
|  | Shareholdings of |            |               | ctors and supervisors or investees indirect control | ors,<br>Syndicated Sh | areholdings        |
| Investee                                       | Quantity         | Percentage | Quantity      | Percentage  | Quantity              | Percentage         |
| Taiwan Transport & Storage Co., Ltd.           | 32,668,031       | 83.85%     | 261,278       | 0.67%   | 32,929,309            | 84.52%             |
| Taiwan Cement Engineering Corporation          | 59,593,414       | 99.05%     | -             | -%  | 59,593,414            | 99.05%             |
| Kuan-HO Refractories Industry Corporation      | 18,105,000       | 95.29%     | -             | -%  | 18,105,000            | 95.29%             |
| Hong Kong Cement Manufacturing Co.,Ltd         | 38,094           | 84.65%     | -             | -%  | 38,094                | 84.65%             |
| Ta-Ho Maritime Corporation                     | 118,649,441      | 64.79%     | 53,472,126    | 29.20%  | 172,121,567           | 93.99%             |
| TCC Investment Co., Ltd.                       | 63,150,000       | 100.00%    | -             | -%  | 63,150,000            | 100.00%            |
| TCC Chemical Corporation                       | 240,000,000      | 100.00%    | -             | -%  | 240,000,000           | 100.00%            |
| TCC Information Systems Corporation            | 14,904,000       | 99.36%     | -             | -%  | 14,904,000            | 99.36%             |
| Taiwan Prosperity Chemical Corporation         | 116,790,998      | 40.00%     | 7,503,001     | 2.57%   | 124,293,999           | 42.57%             |
| Dong Cheng Quarry Co., Ltd.                    | 19,890           | 99.45%     | -             | -%  | 19,890                | 99.45%             |
| Jin Chang Minerals Co., Ltd.                   | 1,800,000        | 100.00%    | -             | -%  | 1,800,000             | 100.00%            |
| Hoping Industrial Port Corporation             | 319,990,000      | 100.00%    | -             | -%  | 319,990,000           | 100.00%            |
| TCC International Ltd.                         | 1,100,875,900    | 100.00%    | -             | -%  | 1,100,875,900         | 100.00%            |
| Ho-Ping Power Company                          | 805,940,306      | 59.50%     | 6,772,608     | 0.50%   | 812,712,914           | 60.00%             |
| Ta-Ho Taitung Environmental Services Co., Ltd. | 37,100,000       | 100.00%    | -             | -%  | 37,100,000            | 100.00%            |
| HPC Power Services Corporation                 | 6,000            | 60.00%     | -             | -%  | 6,000                 | 60.00%             |
| Synpac Ltd.                                    | 2,700,000        | 25.00%     | 8,100,000     | 75.00%  | 10,800,000            | 100.00%            |
| CCC USA Corp.                                  | 79,166           | 33.33%     | 158,334       | 66.67%  | 237,500               | 100.00%            |
| Feng Sheng Enterprise Co., Ltd.                | 27,260,611       | 45.43%     | -             | -%  | 27,260,611            | 45.43%             |
| E.G.C. Cement Corporation                      | 8,062,600        | 50.64%     | 7,857,400     | 49.36%  | 15,920,000            | 100.00%            |
| Onyx Ta-Ho Environmental Services Co., Ltd.    | 30,176,000       | 50.00%     | -             | -%  | 30,176,000            | 50.00%             |
| Ta-Ho RSEA Environment Co., Ltd.               | 66,600,000       | 66.60%     | -             | -%  | 66,600,000            | 66.60%             |
| TCC Green Energy Corporation                   | 150,898,696      | 100.00%    | -             | -%  | 150,898,696           | 100.00%            |
| He Sheng Mining Co., Ltd.                      | 30,100,000       | 100.00%    | -             | -%  | 30,100,000            | 100.00%            |
| TCC International Holdings Ltd.                | 2,581,832,362    | 38.28%     | 4,163,097,279 | 61.72%  | 6,744,929,641         | 100.00%            |

December 31, 2018 (expressed in shares and %)

|   | Shareholdings of directors and supervisors,<br>and managers or investees<br>Shareholdings of the Company under direct or indirect control |            |             |            |             | Syndicated Shareholdings |  |
|---|---|------------|-------------|------------|-------------|--------------------------|--|
| Investee  | Quantity  | Percentage | Quantity    | Percentage | Quantity    | Percentage               |  |
| Taicorn Minerals Corp.                          | 119,997   | 72.70%     | -           | -%         | 119,997     | 72.70%                   |  |
| Trans Philippines Mineral Corp.                 | 19,996  | 40.00%     | -           | -%         | 19,996      | 40.00%                   |  |
| E-ONE Moli Energy Corporation                   | 48,126,798  | 15.97%     | 206,435,400 | 66.34%     | 254,562,198 | 82.31%                   |  |
| International CSRC Investment Holdings Co., Ltd | 135,820,226   | 15.59%     | 44,464,037  | 5.10%      | 180,284,263 | 20.69%                   |  |
| Taiwan Cement(Dutch) Holdings B.V.              | 831,431   | 100.00%    | -           | -%         | 831,431     | 100.00%                  |  |

 $<sup>^1</sup>$  Investments made by the company with the equity method.  $^2$  The stake of Taicorn Minerals Corporation is calculated based on its contribution.



### 4.1 Capitals and shares

### 4.1.1 Equity sources

#### By April 14, 2019 book closure date for AGM (expressed in shares)

| _                       |                |                   | Authorized Capital |                 |               |  |
|-------------------------|----------------|-------------------|--------------------|-----------------|---------------|--|
| Type of Share           | Shares circula | ted on the market |                    | Unissued Share  | Total         |  |
| į                       | Issued*        | Unissued          | Total              | Offissued Share | Total         |  |
| Registered common stock | 5,308,059,911  | -                 | 5,308,059,911      | 1,691,940,089   | 7,000,000,000 |  |

<sup>\*</sup>Including treasury stocks, see 4.9 for details.

### Capital Formation:

By April 14, 2019 book closure date for AGM (expressed in shares)

|               |                        | Authoriz      | ed Capital     | Paid-i        | in Capital     |                                     |                                    | Remarks                       |   |                                  |
|---------------|------------------------|---------------|----------------|---------------|----------------|-------------------------------------|------------------------------------|-------------------------------|---|----------------------------------|
| Year<br>Month | Issued<br>price (NT\$) | Charre        | A              | Ch            | A              |                                     |                                    | Equity sources                |   |                                  |
|               |                        | Shares        | Amount         | Shares        | Amount         | Capitalization of retained earnings | Capitalization of capital reserves | Cash capital increase         | Substitution of capital stock with assets other than cash | Others                           |
| 1995/08       | 10                     | 1,650,000,000 | 16,500,000,000 | 1,280,787,200 | 12,807,872,000 | 1,372,272,000                       | -                                  | -                             | NA  | NA                               |
| 1996/08       | 10                     | 1,650,000,000 | 16,500,000,000 | 1,408,865,920 | 14,088,659,200 | 896,551,040                         | 384,236,160                        | -                             | NA  | NA                               |
| 1997/10       | 10                     | 1,650,000,000 | 16,500,000,000 | 1,650,000,000 | 16,500,000,000 | 563,546,368                         | 845,319,552                        | 1,002,474,880¹                | NA  | NA                               |
| 1998/07       | 10                     | 2,300,000,000 | 23,000,000,000 | 1,815,000,000 | 18,150,000,000 | 660,000,000                         | 990,000,000                        | -                             | NA  | NA                               |
| 1999/09       | 10                     | 2,300,000,000 | 23,000,000,000 | 2,196,500,000 | 21,965,000,000 | 363,000,000                         | 1,452,000,000                      | 2,000,000,000²                | NA  | NA                               |
| 2000/08       | 10                     | 2,550,000,000 | 25,500,000,000 | 2,372,220,000 | 23,722,200,000 | 1,098,250,000                       | 658,950,000                        | -                             | NA  | NA                               |
| 2001/08       | 10                     | 2,757,386,600 | 27,573,866,000 | 2,443,386,600 | 24,433,866,000 | -                                   | 711,666,000                        | -                             | NA  | NA                               |
| 2001/09       | 25                     | 2,757,386,600 | 27,573,866,000 | 2,607,386,600 | 26,073,866,000 | -                                   | -                                  | 1,640,000,000³                | NA  | NA                               |
| 2002/08       | 10                     | 2,757,386,600 | 27,573,866,000 | 2,656,254,332 | 26,562,543,320 | -                                   | 488,677,320                        | -                             | NA  | NA                               |
| 2003/09       | 10                     | 3,157,386,600 | 31,573,866,000 | 2,710,396,409 | 27,103,964,090 | 541,420,770                         | -                                  | -                             | NA  | NA                               |
| 2004/09       | 10                     | 3,507,386,600 | 35,073,866,000 | 2,809,764,407 | 28,097,644,070 | 993,679,980                         | -                                  | -                             | NA  | NA                               |
| 2005/10       | 10                     | 4,007,386,600 | 40,073,866,000 | 2,949,351,287 | 29,493,512,870 | 1,395,868,800                       | -                                  | -                             | NA  | NA                               |
| 2006/04       | 10                     | 4,007,386,600 | 40,073,866,000 | 2,991,886,496 | 29,918,864,960 | -                                   | -                                  | -                             | NA  | NT\$425,352,090 <sup>4</sup>     |
| 2006/06       | 10                     | 4,007,386,600 | 40,073,866,000 | 3,131,344,565 | 31,313,445,650 | -                                   | -                                  | -                             | NA  | NT\$1,394,580,690 <sup>4</sup>   |
| 2006/09       | 10                     | 4,007,386,600 | 40,073,866,000 | 3,181,438,776 | 31,814,387,760 | -                                   | -                                  | =                             | NA  | NT\$500,942,110 <sup>4</sup>     |
| 2006/09       | 10                     | 4,007,386,600 | 40,073,866,000 | 3,236,097,960 | 32,360,979,600 | 546,591,840                         | -                                  | -                             | NA  | NA                               |
| 2006/10       | 10                     | 4,007,386,600 | 40,073,866,000 | 3,072,097,960 | 30,720,979,600 | -                                   | -                                  | -                             | NA  | (NT\$1,640,000,000) <sup>5</sup> |
| 2007/01       | 10                     | 4,007,386,600 | 40,073,866,000 | 3,141,612,870 | 31,416,128,700 | -                                   | -                                  | -                             | NA  | NT\$695,149,100 <sup>4</sup>     |
| 2007/04       | 10                     | 4,007,386,600 | 40,073,866,000 | 3,207,351,086 | 32,073,510,860 | -                                   | -                                  | -                             | NA  | NT\$657,382,160 <sup>4</sup>     |
| 2007/08       | 10                     | 4,007,386,600 | 40,073,866,000 | 3,248,637,197 | 32,486,371,970 | 412,861,110                         | -                                  | -                             | NA  | NA                               |
| 2008/08       | 10                     | 4,007,386,600 | 40,073,866,000 | 3,292,175,869 | 32,921,758,690 | 435,386,720                         | -                                  | -                             | NA  | NA                               |
| 2010/12       | 27                     | 4,007,386,600 | 40,073,866,000 | 3,692,175,869 | 36,921,758,690 | -                                   | -                                  | 4,000,000,0006                | NA  | NA                               |
| 2011/06       | 10                     | 6,000,000,000 | 60,000,000,000 | 3,692,175,869 | 36,921,758,690 | -                                   | -                                  | -                             | NA  | NA                               |
| 2017/11       | 10                     | 6,000,000,000 | 60,000,000,000 | 4,246,509,010 | 42,465,090,100 | -                                   | -                                  | -                             | NA  | NT\$5,543,331,410 <sup>7</sup>   |
| 2018/08       | 10                     | 6,000,000,000 | 60,000,000,000 | 4,670,559,911 | 46,705,599,110 | 4,240,509,010                       | -                                  | -                             | NA  | NA                               |
| 2018/09       | 10                     | 6,000,000,000 | 60,000,000,000 | 5,108,059,911 | 51,080,599,110 | -                                   | -                                  | 4,375,000,0008                | NA  | NA                               |
| 2019/01       | 10                     | 6,000,000,000 | 60,000,000,000 | 5,308,059,911 | 53,080,599,110 | -                                   | -                                  | 2,000,000,000(preferred share | es) <sup>9</sup> NA                                       | NA                               |



<sup>2.</sup>Cash capital increase issuing price at NT\$20 was approved by the Securities and Futures Management Committee of the MOF with Letter Tai-Cai-Cheng-(1) No. 29130 dated 1999/4/20.

<sup>3.</sup>It refers to the 164,000,000 preferred shares issued for a cash capital increase was approved the Securities and Futures Management Committee of the MOF with Letter Tai-Cai-Cheng-(1) No. 143691 dated 2001/7/31.

4.It refers to the exchange of the overseas unsecured convertible bonds with ordinary shares at a maximum amount approved by the Securities and Futures Management Committee of the MOF with Letter Tai-Cai-Cheng-(1)-Zi No. 0920162472 dated 2004/02/06.

<sup>5.</sup>Recovery of preferred shares after expiration for capital reduction.

<sup>6.</sup>lt refers to a cash capital increase by issuing 400,000,000 ordinary shares approved by the FSC with Letter Jin-Guan-Zheng-Fa-Zi No. 0990059240 dated 2010/11/05.

7.A capital increase by issuing 554,333,141 new shares transferred to TCC International Holdings Limited approved by the FSC with Letter Jin-Guan-Zheng-Fa-Zi No. 1060041014 dated

<sup>8.</sup> Capital increase in cash by issuing 375,000,000 shares to 468,750,000 shares, and participation of issuance for Global Depository Receipt for 75,000,000 units to 93,750,000 units, totaling about USD440,000,000 to USD 550,000,000; It is approved by the Financial Supervisory Commission with the Letter Jin-Guan-Zheng-Fa-Zhi No. 10703258531 dated 2018/7/25.

9. It refers to a cash capital increase by issuing 200,000,000 A-Type preferred shares approved by the FSC with Letter Jin-Guan-Zheng-Fa-Zi No. 1070325853 dated 2018/7/25.

### 4.2 Structure of shareholdings

### Common share capital

Base date: April 14, 2019 book closure date for AGM (expressed in shares)

| Shareholder<br>Structure       | Government<br>Agencies | Financial<br>Institutions | Other<br>Institutions | Foreign institutions and individuals | Individuals   | Treasury Stock | Total         |
|--------------------------------|------------------------|---------------------------|-----------------------|--------------------------------------|---------------|----------------|---------------|
| Number of shareholders         | 39                     | 176                       | 1,207                 | 1,281                                | 174,311       | 1              | 177,015       |
| Quantity of shareholdings      | 10,311,054             | 848,941,545               | 1,654,959,542         | 1,489,064,146                        | 1,104,713,624 | 70,000         | 5,108,059,911 |
| Proportion of shareholders (%) | 0.20                   | 16.62                     | 32.40                 | 29.15                                | 21.63         | 0.00           | 100.00        |

### Preferred share capital

Base date: April 14, 2019 book closure date for AGM(expressed in shares)

| Shareholder<br>Structure       | Government<br>Agencies | Financial<br>Institutions | Other<br>Institutions | Foreign institutions and individuals | Individuals | Treasury Stock | Total       |
|--------------------------------|------------------------|---------------------------|-----------------------|--------------------------------------|-------------|----------------|-------------|
| Number of shareholders         | 2                      | 21                        | 100                   | 37                                   | 12,072      | 0              | 12,232      |
| Quantity of shareholdings      | 6,494                  | 97,375,840                | 87,474,640            | 1,612,573                            | 13,530,453  | 0              | 200,000,000 |
| Proportion of shareholders (%) | 0.00                   | 48.68                     | 43.74                 | 0.81                                 | 6.77        | 0.00           | 100.00      |

### 4.3 Diversification of shareholdings

### Common share capital

Base date: April 14, 2019 book closure date for AGM

| Ranking of Shareholdings | Number of Shareholders | Quantity of shareholdings | Proportion of shareholders (%) |
|--------------------------|------------------------|---------------------------|--------------------------------|
| 1-999                    | 75,034                 | 14,095,478                | 0.28                           |
| 1,000-5,000              | 68,881                 | 146,723,822               | 2.87                           |
| 5,001-10,000             | 14,395                 | 106,016,391               | 2.08                           |
| 10,001-15,000            | 5,894                  | 71,889,649                | 1.41                           |
| 15,001-20,000            | 3,103                  | 55,584,282                | 1.09                           |
| 20,001-30,000            | 3,073                  | 76,295,784                | 1.49                           |
| 30,001-40,000            | 1,489                  | 52,115,774                | 1.02                           |
| 40,001-50,000            | 974                    | 44,668,328                | 0.87                           |
| 50,001-100,000           | 1,883                  | 133,336,386               | 2.61                           |
| 100,001-200,000          | 995                    | 140,256,688               | 2.75                           |
| 200,001-400,000          | 529                    | 148,666,683               | 2.91                           |
| 400,001-600,000          | 197                    | 96,994,281                | 1.90                           |
| 600,001-800,000          | 117                    | 80,992,844                | 1.59                           |
| 800,001-1,000,000        | 70                     | 62,666,693                | 1.23                           |
| 1,000,001 and above      | 381                    | 3,877,756,828             | 75.90                          |
| Total                    | 177,015                | 5,108,059,911             | 100.00                         |

### Preferred share capital

Base date: April 14, 2019 book closure date for AGM

| Ranking of Shareholdings | Number of Shareholders | Quantity of shareholdings | Proportion of shareholders (%) |
|--------------------------|------------------------|---------------------------|--------------------------------|
| 1-999                    | 8,108                  | 997,786                   | 0.50                           |
| 1,000-5,000              | 3,865                  | 4,653,486                 | 2.33                           |
| 5,001-10,000             | 101                    | 744,577                   | 0.37                           |
| 10,001-15,000            | 25                     | 299,706                   | 0.15                           |
| 15,001-20,000            | 24                     | 425,650                   | 0.21                           |
| 20,001-30,000            | 16                     | 394,453                   | 0.20                           |
| 30,001-40,000            | 7                      | 249,597                   | 0.12                           |
| 40,001-50,000            | 6                      | 283,313                   | 0.14                           |
| 50,001-100,000           | 28                     | 2,444,876                 | 1.22                           |
| 100,001-200,000          | 17                     | 2,600,013                 | 1.30                           |
| 200,001-400,000          | 11                     | 3,221,860                 | 1.61                           |
| 400,001-600,000          | 3                      | 1,625,000                 | 0.81                           |
| 600,001-800,000          | 2                      | 1,465,130                 | 0.73                           |
| 800,001-1,000,000        | 5                      | 4,692,359                 | 2.35                           |
| 1,000,001 and above      | 14                     | 175,902,194               | 87.96                          |
| Total                    | 12,232                 | 200,000,000               | 100.00                         |

### 4.4 List of major shareholders

Base date: April 14, 2019 book closure date for AGM

| Shareholder                                     | Shareholdings | Proportion (%) |
|---|---------------|----------------|
| Chia Hsin Cement Corporation                    | 193,888,706   | 3.80           |
| Cathay Life Insurance Company, Ltd.             | 157,361,006   | 3.08           |
| CTCB Investments Co., Ltd.                      | 137,608,757   | 2.69           |
| China Life Insurance Co., Ltd.                  | 115,325,915   | 2.26           |
| Shin Kong Life Insurance Co., Ltd.              | 110,765,958   | 2.17           |
| New Labor Pension Scheme Fund                   | 104,145,550   | 2.04           |
| Nan Shan Life Insurance Company, Ltd.           | 100,974,700   | 1.98           |
| Chia Hsin International Co., Ltd.               | 96,717,520    | 1.89           |
| International CSRC Investment Holdings Co., Ltd | 92,155,487    | 1.80           |
| Heng Qiang Investment Co., Ltd.                 | 90,991,540    | 1.78           |

### 4.5 Information on the market price, net value, earning dividend, others per share

xpressed in NT\$/thousand shares)

| Item                                |   | Year                          | 2017              | 2016      | By May 10, 2019 <sup>8</sup> |       |        |
|-------------------------------------|---|-------------------------------|-------------------|-----------|------------------------------|-------|--------|
| Market price                        | Highest                                   |                               | 38.90             | 47.30     | 43.15                        |       |        |
| per share <sup>1</sup>              | Lowes                                     | st                            | 33.35             | 32.70     | 34.90                        |       |        |
|                                     | Average                                   |                               | 35.14             | 39.26     | 39.67                        |       |        |
| Net value<br>per share <sup>2</sup> | Before allocation                         |                               | Before allocation |           | 32.11                        | 34.20 | 36.575 |
| per snare-                          | After allocation                          |                               | 30.61             | NA        | NA                           |       |        |
| EPS                                 | EPS Weighted average of shares            |                               | 4,162,421         | 4,849,335 | 5,107,990                    |       |        |
|                                     | EPS                                       | Before Adjustment             | 2.03              | 4.37      | 0.77                         |       |        |
|                                     |   | After Adjustment <sup>3</sup> | 1.82              |           |                              |       |        |
| Dividend per share                  | Cash dividend                             |                               | 1.50              | 3.30      | NA                           |       |        |
|                                     | Stock                                     | From retained earnings        | 1.00              | 0.7       | NA                           |       |        |
|                                     | grants                                    | From capital reserve          | -                 | -         | NA                           |       |        |
|                                     | Accumulated unpaid dividends <sup>4</sup> |                               | -                 | -         | NA                           |       |        |
| Analysis on ROI                     | P/E                                       | Before Adjustment             | 17.31             | 8.98      | NA                           |       |        |
|                                     | ratio⁵                                    | After Adjustment              | 19.31             |           | NA                           |       |        |
|                                     | P/P ra                                    | tio <sup>6</sup>              | 23.43             | 11.90     | NA                           |       |        |
|                                     | Cash                                      | dividend yield <sup>7</sup>   | 0.04              | 0.08      | NA                           |       |        |

<sup>\*</sup>After a capital increase or stock grant with retained earnings or capital reserve, disclose information regarding the reversely adjusted market price and cash dividends based on the number of shares granted.

¹Disclose the highest and lowest market prices of ordinary shares in each year and calculate the average market price based on the transaction value and transaction volume in each year.

### 4.6 Dividend policy and implementation

### (1) Dividend policy

Each accounting year after the annual closing of books, after paying taxes and deducting accumulative deficits from the net profit, this Company first appropriates 10% of the balance as the legal reserve. If the accumulative legal reserve has reached the amount of the paid-in capital, this Company may discontinue legal reserve appropriation. If there is still a balance, it shall be combined with the unappropriated retained earnings. This Company may appropriate or revert the balance to special reserves as per related laws and regulations where necessary. Or, this Company may distribute dividends for common stocks with the balance after considering the retained earnings and distributing the dividends for the preferred shares pursuant to Article 5-1 of the Company Charter. BOD shall draw up the proposal of profit distribution and submit the proposal to the AGM.

As per the articles of incorporation of this Company, apart from engaging in capital-intensive, rather mature and steady cement and cement product manufacturing industry, this Company shall ensure business diversification. In response to the investments required by business diversification or important capital budget planning, the rate of cash dividends for common stocks is set at a minimum of 20%, and the rest will be distributed in stock dividends.

### (2) Profit distribution

The 2018 profit distribution proposal was approved at the 8th Meeting of the 23rd BOD on March 22, 2019 as shown below. The dividends for the preferred share are NT\$ 18,219,178; the cash dividend for the common shares is NT\$3.3 per shares and stock dividend is NT\$0.7 per share, as total NT\$ 20,431,959,636. This proposal will be implemented after approval by the AGM on June 12, 2019.

|   | (expressed in NT\$) |
|---|---------------------|
| Dividend for preferred stocks: about 0.09/share | 18,219,178          |
| Cash dividend for common stocks: 3.3/share      | 16,856,366,706      |
| Stock dividend for common stocks: 0.7/share     | 3,575,592,930       |

# 4.7 Impacts of the stock grants proposed by the current AGM of shareholder on the company's operations and EPS

| Item                                    | Year March 31, 2019<br>(distribution of profit i | n 2018)    |
|---|--|------------|
| Beginning paid-ir<br>(expressed in NT\$ | '  | 53,080,599 |
| Stock and                               | Dividend for preferred stocks per share          | 0.09       |
| dividend                                | Cash dividend per share (NT\$)                   | 3.3        |
| distribution                            | Number of shares per share allocated             | 0.7        |
| of the year <sup>1</sup>                | from capitalization with retained earnings       |            |
|   | Number of shares per share allocated             | -          |
|   | from capitalization with capital reserves        |            |
| ROE (%)                                 | Before allocation                                | 2.08       |
|   | After allocation                                 | 2.17       |
| Net value/share                         | Before allocation                                | 36.57      |
| (NT\$)                                  | After allocation                                 | 31.29      |

Note 1: Undistributed earnings of 2018 will be settled at the 2019 AGM

Note 2: The Company did not disclose the financial forecasts for 2019; therefore, it is not required to disclose the forecasted data for 2019.

### 4.8 Rewards for employees and directors

# 4.8.1 The percentage or range of rewards for employees and directors in the articles of incorporation

Should there be profit in a year, this Company shall appropriate: (1)Rewards for employees: 0.1 per mille to 3 per cent.

(2) Reward for directors: Below 1 per cent

When there are accumulative deficits, this Company shall retain the amount to cover up the deficits before appropriating rewards for employees and directors has specified in sub-paragraphs 1 and 2 in the foregoing paragraph. The reward for employees, including employees of affiliates fulfilling related requirements, may be distributed in stock or in cash

# 4.8.2 Bases for estimating the reward for employees and directors of the period, for calculating reward for employees in stock, and for accounting solution for differences between actually distributed amount and estimated amount:

The bases for estimating the reward for employees and directors in 2018, for calculating reward for employees in stock, and for accounting solution for differences between actually distributed amount and estimated amount will be adjusted and registered in the next accounting year.

### 4.8.3 Information on the proposal on reward distribution passed by BOD

(1) The amount of rewards for employees and directors distributed in cash or in stock. Should there be a difference from the estimated amount of the expense recognized for the year, disclose the difference, its cause(s) and solutions.

On March 22, 2019 BOD passed the amount of rewards for employees and directors is NT\$68,236,208 and NT\$215,087,848, respectively. The amount of rewards for employees and directors in 2018 is same as estimated in the book.

(2) The proportion of amount equivalent to the stock distributed as rewards for employees in the earnings after tax in the individual or consolidated financial statement of the period and the total amount of compensation for employees:

As no reward was distributed in stock, this clause is not applicable.

<sup>&</sup>lt;sup>2</sup>Disclose information based on the outstanding shares by the end of the year and the distribution plan approved by the AGM of shareholders in the next year.

<sup>&</sup>lt;sup>3</sup>When reverse adjustment is required for stock grants, disclose the EPS before and after the adjustment.

<sup>&</sup>quot;When the accumulation of undistributed dividends of the year until the year when there is profit for distribution is a condition for the issue of equity securities, disclose the undistributed dividends by the year of report publication.

<sup>&</sup>lt;sup>5</sup>P/E Ratio = Average closing price per share over the year / earnings per share.

<sup>&</sup>lt;sup>6</sup>Price/Dividend Ratio = Average closing price per share over the year / cash dividend per share

 $<sup>^{7}</sup>$ Cash Dividend Yield = Cash Dividend per Share / Average closing price per share over the year.

The net value per share and equity per share are based on the data audited (certified) by CPAs on March 31, 2019; and data in other columns should be the data by the year of report publication.

# 4.8.4When there is difference in the actual status of reward (including number of shares, amount, and stock price) distributed to employees, directors, and supervisors in the previous year, state the amount, causes, and settlement of such difference: NA

### 4.9 Status of stock buyback:

| Number (installment) of buybacks  | Second time (installment) | Third time (installment) |  |
|---|---------------------------|--------------------------|--|
| Purpose of buyback  | Transfer to employees     | Transfer to employees    |  |
| Buyback period  | 2018/02/05~2018/02/12     | 2019/05/13~2019/07/12    |  |
| Buyback price range (NT\$)  | 26.53~56.63               | 29.75~63.62              |  |
| Types and number of shares bought   | 6,000,000 ordinary shares | -                        |  |
| Amount of buyback (NT\$)  | 218,165,694               | -                        |  |
| Number of shares transferred  | 5,930,000                 | -                        |  |
| Number of shares not yet transferred                                      | 70,000                    | -                        |  |
| Accumulative shareholdings  | 70,000                    | 70,000                   |  |
| Proportion of accumulative shareholdings in the totally issued shares (%) | -                         | -                        |  |

Note: Data until report publication on May 10, 2019.

### 4.10 Status of corporate bonds:

### 4.10.1 Information of corporate bonds:

(expressed in NT\$)

| Item Type 2015 First Unsecured Corporate Bond  Issuance (Process) Date June 21, 2018  Face value NT\$1,000,000  Locate of Issuance and Exchange NA  Price of Issuance 100% of per value  Total Amount NT\$12,000,000,000  Rate Fixed annual rate of 1.7%  Tenor Fifteen years Maturity Date: June 21, 2033  Guarantor NA  Trustee CTBC Bank  Underwriter HSBC Bank (Taiwan) Company Limited  Appointed Attorney of Law Hui-Chi Kuo  Appointed Attorney of Law Hui-Chi Kuo  Appointed CPAs Ya-Ling Won and Chih-Ming Shao  Repayment Method On due date, the bonds will be redeemed in whole  Outstanding principal NT\$12,000,000,000  Terms of redemption or early repayment NA  Restrictive terms NA  Name of the credit rating agency, date, and outcome of the rating of the corporate bond Earling Stages of Taiking May 8, 2018 | Issuance (Process) Date  Face value  Locate of Issuance and Excharance  Price of Issuance  Total Amount  Rate  Tenor  Guarantor  Trustee  Underwriter  Appointed Attorney of Law  Appointed CPAs  Repayment Method  Outstanding principal  Terms of redemption or early of the credit rating ager date, and outcome of the rating the corporate bond  Other Rights Att a fit  Att a fit  Guidelines of issuance or convertices  | Туре   | 2010 First Unaccured Cornovata Band                            |
|---|--|--|--|
| Face value  Locate of Issuance and Exchange  NA  Price of Issuance  100% of per value  Total Amount  NT\$12,000,000,000  Rate  Fixed annual rate of 1.7%  Fifteen years Maturity Date: June 21, 2033  Guarantor  NA  Trustee  CTBC Bank  Underwriter  HSBC Bank (Taiwan) Company Limited  Appointed Attorney of Law  Appointed CPAs  Repayment Method  On due date, the bonds will be redeemed in whole  Outstanding principal  Terms of redemption or early repayment  NA  Restrictive terms  NA  Name of the credit rating agency, date, and outcome of the rating of the corporate bond  NT\$12,000,000  Credit Rating subject: Taiwan Ratings Corporation Ratings subject: Taiwan Cement Corporation Credit Ratings subject: Taiwan Cement Corporation  Ratings subject: Taiwan Cement Corporation                                | Face value  Locate of Issuance and Exchar  Price of Issuance  Total Amount  Rate  Tenor  Guarantor  Trustee  Underwriter  Appointed Attorney of Law  Appointed CPAs  Repayment Method  Outstanding principal  Terms of redemption or early of the credit rating ager date, and outcome of the rating the corporate bond  Other Rights Att a fit  By the publication of report, the amount (exchanged or subsequence) shares, GDR, or consecurities  Guidelines of issuance or convertible.   |  | 2018 First Unsecured Corporate Bond                            |
| Locate of Issuance and Exchange Price of Issuance 100% of per value  Total Amount NT\$12,000,000,000  Rate Fixed annual rate of 1.7%  Tenor Fifteen years Maturity Date: June 21, 2033  Guarantor NA  Trustee CTBC Bank Underwriter HSBC Bank (Taiwan) Company Limited  Appointed Attorney of Law Hui-Chi Kuo  Appointed CPAs Ya-Ling Won and Chih-Ming Shao  Repayment Method On due date, the bonds will be redeemed in whole  Outstanding principal NT\$12,000,000,000  Terms of redemption or early repayment NA  Restrictive terms NA  Name of the credit rating agency, date, and outcome of the rating of the corporate bond  Terdit Rating Subject: Taiwan Ratings Corporation Credit Ratings: twA+   | Locate of Issuance  Price of Issuance  Total Amount  Rate  Tenor  Guarantor  Trustee  Underwriter  Appointed Attorney of Law  Appointed CPAs  Repayment Method  Outstanding principal  Terms of redemption or early of the credit rating agerdate, and outcome of the rating the corporate bond  Other Rights Att a fit  By the publication of report, the amount (exchanged or subschares, GDR, or of securities)  Guidelines of issuance or convertices   | Date   | June 21, 2018  |
| Price of Issuance  Total Amount  NT\$12,000,000,000  Rate  Fixed annual rate of 1.7%  Fifteen years Maturity Date: June 21, 2033  Guarantor  NA  Trustee  CTBC Bank  Underwriter  HSBC Bank (Taiwan) Company Limited  Appointed Attorney of Law  Hui-Chi Kuo  Appointed CPAs  Ya-Ling Won and Chih-Ming Shao  Repayment Method  On due date, the bonds will be redeemed in whole  Outstanding principal  NT\$12,000,000,000  Terms of redemption or early repayment  NA  Restrictive terms  NA  Name of the credit rating agency, date, and outcome of the rating of the corporate bond  Credit Rating Subject: Taiwan Cement Corporation Credit Ratings: twA+  | Price of Issuance  Total Amount  Rate  Tenor  Guarantor  Trustee  Underwriter  Appointed Attorney of Law  Appointed CPAs  Repayment Method  Outstanding principal  Terms of redemption or early of the credit rating agerdate, and outcome of the rating the corporate bond  Other Rights Att a fit  By the publication of report, the amount (exchanged or subscribers) shares, GDR, or of securities  Guidelines of issuance or convertible.   |  | NT\$1,000,000  |
| Total Amount  NT\$12,000,000,000  Rate  Fixed annual rate of 1.7%  Tenor  Fifteen years Maturity Date: June 21, 2033  Guarantor  NA  Trustee  CTBC Bank  Underwriter  HSBC Bank (Taiwan) Company Limited  Appointed Attorney of Law  Hui-Chi Kuo  Appointed CPAs  Ya-Ling Won and Chih-Ming Shao  Repayment Method  On due date, the bonds will be redeemed in whole  Outstanding principal  NT\$12,000,000,000  Terms of redemption or early repayment  NA  Restrictive terms  NA  Name of the credit rating agency, date, and outcome of the rating of the corporate bond  Credit Ratings Subject: Taiwan Cement Corporation Credit Ratings: twA+   | Total Amount  Rate  Tenor  Guarantor  Trustee  Underwriter  Appointed Attorney of Law  Appointed CPAs  Repayment Method  Outstanding principal  Terms of redemption or early of the credit rating ager date, and outcome of the rating the corporate bond  Other Rights Att a fit  By the publication of report, the amount (exchanged or subscribers) shares, GDR, or of securities  Guidelines of issuance or convertible.   | and Exchange   | NA   |
| Rate Fixed annual rate of 1.7%  Tenor Fifteen years Maturity Date: June 21, 2033  Guarantor NA  Trustee CTBC Bank  Underwriter HSBC Bank (Taiwan) Company Limited  Appointed Attorney of Law Hui-Chi Kuo  Appointed CPAs Ya-Ling Won and Chih-Ming Shao  Repayment Method On due date, the bonds will be redeemed in whole  Outstanding principal NT\$12,000,000,000  Terms of redemption or early repayment NA  Restrictive terms NA  Name of the credit rating agency, date, and outcome of the rating of the corporate bond Credit Ratings Loyporation Credit Ratings: twA+  | Rate  Tenor  Guarantor  Trustee  Underwriter  Appointed Attorney of Law  Appointed CPAs  Repayment Method  Outstanding principal  Terms of redemption or early of the credit rating ager date, and outcome of the rating the corporate bond  Other Rights Att a fit  By the publication of report, the amount (exchanged or substances, GDR, or of securities)  Guidelines of issuance or convertigation.  |  | 100% of per value  |
| Tenor Fifteen years Maturity Date: June 21, 2033  Guarantor NA  Trustee CTBC Bank  Underwriter HSBC Bank (Taiwan) Company Limited  Appointed Attorney of Law Hui-Chi Kuo  Appointed CPAs Ya-Ling Won and Chih-Ming Shao  Repayment Method On due date, the bonds will be redeemed in whole  Outstanding principal NT\$12,000,000,000  Terms of redemption or early repayment NA  Restrictive terms NA  Name of the credit rating agency, date, and outcome of the rating of the corporate bond Credit Ratings LiwA+   | Tenor  Guarantor  Trustee  Underwriter  Appointed Attorney of Law  Appointed CPAs  Repayment Method  Outstanding principal  Terms of redemption or early of the credit rating ager date, and outcome of the rating the corporate bond  Other Rights Att a fit  By the publication of report, the amount (exchanged or subscribers) for constant of the corporate bond  Other Rights Att a fit Subscribers of issuand (exchange or subscribers) Guidelines of issuand (exchange or subscribers) Guidelines of issuance or conversions.  |  | NT\$12,000,000,000   |
| Guarantor  Trustee  CTBC Bank  Underwriter  HSBC Bank (Taiwan) Company Limited  Appointed Attorney of Law  Hui-Chi Kuo  Appointed CPAs  Ya-Ling Won and Chih-Ming Shao  Repayment Method  On due date, the bonds will be redeemed in whole  Outstanding principal  NT\$12,000,000,000  Terms of redemption or early repayment  NA  Name of the credit rating agency, date, and outcome of the rating of the corporate bond  NA  CTBC Bank  Hui-Chi Kuo  Nau date, the bonds will be redeemed in whole  NT\$12,000,000,000  Credit Rating Agency: Taiwan Ratings Corporation Rating subject: Taiwan Cement Corporation Credit Ratings: twA+  | Guarantor  Trustee  Underwriter  Appointed Attorney of Law  Appointed CPAs  Repayment Method  Outstanding principal  Terms of redemption or early of the credit rating ager date, and outcome of the rating the corporate bond  Other Rights Att a fit  By the publication of report, the amount (exchanged or subscribers) shares, GDR, or of securities  Guidelines of issuand (exchange or subscribers) Guidelines of issuand (exchange or subscribers)   |  | Fixed annual rate of 1.7%                                      |
| Trustee CTBC Bank  Underwriter HSBC Bank (Taiwan) Company Limited  Appointed Attorney of Law Hui-Chi Kuo  Appointed CPAs Ya-Ling Won and Chih-Ming Shao  Repayment Method On due date, the bonds will be redeemed in whole  Outstanding principal NT\$12,000,000,000  Terms of redemption or early repayment NA  Restrictive terms NA  Name of the credit rating agency, date, and outcome of the rating of the corporate bond Credit Ratings: twA+   | Trustee  Underwriter  Appointed Attorney of Law  Appointed CPAs  Repayment Method  Outstanding principal  Terms of redemption or early of the Restrictive terms  Name of the credit rating ager date, and outcome of the ration the corporate bond  Other Rights Att a fit  a fit  By the publication of report, the amount (exchanged or subschares, GDR, or consecurities)  Guidelines of issuand (exchange or subscribed)   |  | Fifteen years Maturity Date: June 21, 2033                     |
| Underwriter  Appointed Attorney of Law  Hui-Chi Kuo  Appointed CPAs  Ya-Ling Won and Chih-Ming Shao  Repayment Method  On due date, the bonds will be redeemed in whole  Outstanding principal  NT\$12,000,000,000  Terms of redemption or early repayment  NA  Restrictive terms  NA  Name of the credit rating agency, date, and outcome of the rating of the corporate bond  Terms of redemption  Credit Ratings: twA+   | Appointed Attorney of Law  Appointed CPAs  Repayment Method  Outstanding principal  Terms of redemption or early of Restrictive terms  Name of the credit rating ager date, and outcome of the ration the corporate bond  Other Rights Att a fit By the publication of report, the amount (exchanged or subscience) (exchange or subscredit for the corporate of the report, the amount (exchanged or subscredit for the corporate of the report, the amount (exchanged or subscredit for the corporate of the report, the amount (exchanged or subscredit for the corporate of the report, the amount (exchanged or subscredit for the corporate of the report, the amount (exchanged or subscredit for the corporate of the c |  | NA   |
| Appointed Attorney of Law  Appointed CPAs  Ya-Ling Won and Chih-Ming Shao  Repayment Method  On due date, the bonds will be redeemed in whole  Outstanding principal  NT\$12,000,000,000  Terms of redemption or early repayment  NA  Restrictive terms  NA  Name of the credit rating agency, date, and outcome of the rating of the corporate bond  Credit Ratings: twA+  | Appointed Attorney of Law  Appointed CPAs  Repayment Method  Outstanding principal  Terms of redemption or early of the credit rating agendate, and outcome of the rating the corporate bond  Other Rights Att a fit  By the publication of report, the amount (exchanged or subscribers) shares, GDR, or of securities  Guidelines of issuand (exchange or subscribers) Guidelines of issuand contents of the corporate of the publication of report, the amount (exchanged or subscribers) Guidelines of issuand (exchange or subscribers) Guidelines of issuance or conversions.  |  | CTBC Bank  |
| Appointed CPAs  Ya-Ling Won and Chih-Ming Shao  Repayment Method  On due date, the bonds will be redeemed in whole  NT\$12,000,000,000  Terms of redemption or early repayment  NA  Restrictive terms  NA  Name of the credit rating agency, date, and outcome of the rating of the corporate bond  Ya-Ling Won and Chih-Ming Shao  On due date, the bonds will be redeemed in whole  NT\$12,000,000,000  NA  Credit Rating Agency: Taiwan Ratings Corporation  Rating subject: Taiwan Cement Corporation  Credit Ratings: twA+   | Appointed CPAs  Repayment Method  Outstanding principal  Terms of redemption or early of the Restrictive terms  Name of the credit rating ager date, and outcome of the rating the corporate bond  Other Rights Att a fit  By the publication of report, the amount (exchanged or subschares, GDR, or of securities)  Guidelines of issuand (exchange or subscribed)   |  | HSBC Bank (Taiwan) Company Limited                             |
| Repayment Method  On due date, the bonds will be redeemed in whole  NT\$12,000,000,000  Terms of redemption or early repayment  NA  Restrictive terms  NA  Name of the credit rating agency, date, and outcome of the rating of the corporate bond  Credit Ratings: twA+  | Repayment Method  Outstanding principal  Terms of redemption or early of the Restrictive terms  Name of the credit rating ager date, and outcome of the rating the corporate bond  Other Rights Att a fit  By the publication do report, the amount (exchanged or subschares, GDR, or of securities)  Guidelines of issuand (exchange or subscream of the results of the report of the report of the amount (exchanged or subscream of the report of the amount (exchanged or subscream of the report of the | r of Law   | Hui-Chi Kuo  |
| Outstanding principal  NT\$12,000,000,000  Terms of redemption or early repayment  NA  Restrictive terms  NA  Name of the credit rating agency, date, and outcome of the rating of the corporate bond  NT\$12,000,000,000  NA  Credit Rating Agency: Taiwan Ratings Corporation Rating subject: Taiwan Cement Corporation Credit Ratings: twA+  | Outstanding principal  Terms of redemption or early of the Restrictive terms  Name of the credit rating agerdate, and outcome of the ration the corporate bond  Other Rights Att a fit  By the publication of report, the amount (exchanged or subschares, GDR, or of securities)  Guidelines of issuance or convertible.  |  | Ya-Ling Won and Chih-Ming Shao                                 |
| Terms of redemption or early repayment  NA  Restrictive terms  NA  Name of the credit rating agency, date, and outcome of the rating of the corporate bond  NA  Credit Rating Agency: Taiwan Ratings Corporation Rating subject: Taiwan Cement Corporation Credit Ratings: twA+   | Restrictive terms  Name of the credit rating ager date, and outcome of the ratin the corporate bond  Other Rights Att a fit  Guidelines of issuan (exchange or subscr  | i  | On due date, the bonds will be redeemed in whole               |
| Restrictive terms  NA  Name of the credit rating agency, date, and outcome of the rating of the corporate bond  Credit Rating Agency: Taiwan Ratings Corporation Rating subject: Taiwan Cement Corporation Credit Ratings: twA+   | Restrictive terms  Name of the credit rating ager date, and outcome of the rating the corporate bond  Other Rights Att a fit  By the publication does report, the amount (exchanged or substances, GDR, or consecurities)  Guidelines of issuance or conversions.  | pal  | NT\$12,000,000,000   |
| Name of the credit rating agency,  date, and outcome of the rating of the corporate bond  Credit Rating Agency: Taiwan Ratings Corporation Rating subject: Taiwan Cement Corporation Credit Ratings: twA+   | Name of the credit rating ager date, and outcome of the ratin the corporate bond  Other Rights Att a fit  By the publication of report, the amount (exchanged or substibutes shares, GDR, or of securities)  Guidelines of issuand (exchange or subscr   | on or early repayment  | NA   |
| date, and outcome of the rating of Rating subject: Taiwan Cement Corporation the corporate bond Credit Ratings: twA+  | Other Rights Att a fit Squidelines of issuance or conversions.   |  | NA   |
|   | Rights Att a fit  Rights Att continuous report, the amount (exchanged or substitutions) shares, GDR, or of securities  Guidelines of issuan (exchange or subscribes)  Guidelines of issuance or conventions  | of the rating of   | Rating subject: Taiwan Cement Corporation Credit Ratings: twA+ |
| Rights Att Att a fit  Rights Att converted (exchanged or subscribed) common shares, GDR, or other negotiable  | (exchange or subscr<br>Guidelines of issuance or conver  | ee amount of the converted<br>ed or subscribed) common<br>GDR, or other negotiable | NA   |
| Guidelines of issuance or conversion (exchange or subscription)   |  |  | NA   |
| Guidelines of issuance or conversion, exchange or subscription; the possible dilutions to equities by the issuance terms, Effects to the current shareholders' equity   |  | sible dilutions to equities by   | NA   |
|   | Delegated custodian of the unde  | of the underlying exchange   | NA   |

Note: The Company announced on May 10, 2018 the Board of Directors resolution to issue unsecured corporate bonds with total value not exceeding NT\$30 billion and the issuance may be at once or by installments. The unsecured corporate bonds NT\$12 billion were issued on June 21, 2018, the remaining unsecured corporate bonds NT\$18 billion will continue to execute. The balance of outstanding not yet executed corporate bonds are NT\$18 billion until report publication on May 10, 2019.

(expressed in USD dollors)

|  | Tuno                 | (expressed in USD dollors)  |  |  |
|--|----------------------|---|--|--|
| Item   | Туре                 | 2018 First Overseas Unsecured Convertible Corporate Bond  |  |  |
| Issuance (I  | Process) Date        | December 10, 2018   |  |  |
| Face value   |                      | USD 200,000   |  |  |
| Locate of I  | ssuance and Exchange | Singapore Exchange Limited  |  |  |
| Price of Issuance  |                      | 100% of per value   |  |  |
| Total Amount   |                      | USD 400,000,000   |  |  |
| Rate   |                      | 0%  |  |  |
| Tenor  |                      | Five years Maturity Date: December 10, 2023   |  |  |
| Guarantor  |                      | NA NA   |  |  |
| Custodian  |                      | CITI Bank   |  |  |
| Underwrite   | er                   | JP Morgan Securities plc  |  |  |
| Appointed Attorney of Law  |                      | Hsin-lan Hsu  |  |  |
| Appointed CPAs   |                      | Ya-Ling Won and Chih-Ming Shao  |  |  |
| Repayment Method   |                      | Unless previously redeemed, repurchased and cancelled or converted, the Bonds will be redeemed at their principal amount with a yield calculated at the rate of 0.5% per annum on the Maturity Date.  |  |  |
| Outstandi  | ing principal        | USD 400,000,000   |  |  |
| Terms for redemption or early repayment  |                      | (a) From 2 years after the Issuance Date to the Maturity Day, the Issuer may redeem the Bonds in whole or in part, at the Early Redemption Amount, provided that the closing price of Issuer's Common Shares on TWSE (converted into USD by applying the prevailing exchange rate) for a total of 20 days out of 30 consecutive trading days is at least 130% of the amount which is equal to the Early Redemption Amount multiplying the then prevailing Conversion Price (converted into USD at the Fixed Exchange Rate), divided by the principal amount of the Bonds.  (b) The Issuer may redeem all of the Bonds at the Early Redemption Amount in the event that more than 90% of the Bonds have been early redeemed, converted, repurchased or cancelled.  (c) The Issuer may redeem all of the Bonds at the Early Redemption Amount in the event of changes in ROC taxation laws resulting in an increase of tax obligation, the necessity to pay additional interest expense, or increase of additional costs to the Issuer after the Issue Date. Bondholders may elect not to have their bonds redeemed but with no entitlement to any additional amounts or reimbursement of additional tax. |  |  |
| Restrictive terms  |                      | NA NA   |  |  |
| Name of the credit rating agency,<br>date, and outcome of the rating of the<br>corporate bond  |                      | NA  |  |  |
| Other Rights Att a fit  Other Rights Att a fit  Other Rights Att a fit  Other Rights Att annual report, the amount of the converted (exchanged or subscribed) common shares, GDR, or other negotiable securities |                      | NA NA   |  |  |

| Item Type   | 2018 First Overseas Unsecured Convertible Corporate Bond  |
|---|---|
| Guidelines of issuance or conversion (exchange or subscription)   | Unless previously redeemed, repurchased, or during the Closed Period (as defined below), the Bonds may be converted into the newly-issued Common Shares at any time starting from the next day immediately after three months from the Issue Date (not including the Issue Date) to the 10th day prior to the Maturity Date (the "Conversion Period"), based on the Bondholder's request in accordance with relevant laws and regulations and the Indenture. Under current ROC laws and regulations, the Closed Period is defined as follows:  (a) The book closure period under the laws of the ROC, including the 60-day period prior to the date of the annual general shareholders' meeting of the Issuer, or the 30-day period prior to a special shareholders' meeting of the Issuer.  (b) In the event of issuance of bonus of shares, distribution of cash divided or capital increase by cash, the period from the 15 trading days prior to the commencing day of the book closure period to the record date for determination of shareholders entitled to receive bonus shares or cash dividends or subscribe new shares.  (c) In the event of capital reduction of the Issuer, the period from the record date for capital reduction to the day one day prior to the trading day of the shares newly issued upon the capital reduction.  (d) Other period for book closure pursuant to the ROC laws and regulations and the Taiwan Stock Exchange ("TWSE") regulations and rules.  (e) If there is any change in the future with respect to the relevant laws and regulations on Closed Period, the then updated laws and regulations shall apply. |
| Guidelines of issuance or conversion, exchange or subscription; the possible dilutions to equities by the issuance terms, Effects to the current shareholders' equity | If all the Bonds were converted into Common Shares, the share dilution effect will be around 5.94%. Although the Bonds will increase the share capital and dilute the EPS, this offering in terms of financial structure could help increase equity fund, reduce debt ratio and strengthen the financial structure, which shall be beneficial to the future operations and development of TCC Group.  |
| Delegated custodian of the underlying exchange  | NA  |

### 4.10.2 Information of corporate bonds:

| Type of Corporate Bonds                                     | 2018 First Overseas Unsecured Convertible Corporate Bond |  |              |                             |
|---|--|--|--------------|-----------------------------|
| Item  | Year   | At the issuance                          | 2018         | Up to May 10, 2019 (Note 1) |
| Market value for converting the                             | Highest  | US\$101.083                              | US\$103.307  | US\$113.194                 |
| corporate bonds   | Lowest   | US\$101.083 US\$101.083                  |              | US\$102.622                 |
|   | Average  | US\$101.083                              | US\$102.433  | US\$108.146                 |
| Price of conversion (NT\$/share)                            |  | NT\$41/share                             | NT\$41/share | NT\$41/share                |
| Issuance (process) date and Price of conversion at issuance |  | Issued on December 10, 2018 NT\$41/share |              |                             |
| Means of performing the obligation of conversion            |  | Delivery of issued shares                |              |                             |

Note 1: Fill up with the information of the current year up to the publication date of the annual report.

- 4.10.3 Information of exchange corporate bonds: NA
- **4.10.4** Aggregated report of issuance of corporate bonds: NA
- 4.10.5 Information of corporate bonds with warrants: NA

### 4.11 Status of preferred shares:

### 4.11.1 Information of preferred shares

| Item                              | Issuance (Process) Date   | Decembe  | r 13, 2018 (TCC B-Preferred)   |  |
|-----------------------------------|---|--|--|--|
| Face va                           | alue  | NT\$ 10  |  |  |
| Issued                            | l price   | NT\$ 50 per share  |  |  |
| Quanti                            | ity   | Total 200,000,000 shares   |  |  |
| Total a                           | amount  | NT\$ 10,00   | 00,000,000   |  |
| Rights<br>and<br>Obliga-<br>tions | Distribution of Dividends and Bonus   | 1.Dividends:3.5% per annum (equal to the sum of 5-year IRS 0.9375%+2.5625%) The IRS rate will be reset every 5 year based on the average rate of PYTWDFIX and COSMOS3 at 11:00 am on the date which is two business days prior to the interest rate reset date. If no such rate can be obtained, the company will determine the rate based on reasonable market price with good faith.  2. Dividend payout:  (1) The dividends will be distributed annually in arrears. Once the Company's Audited Financial Reports have been acknowledged and the earnings resolved in the annual general meeting of the shareholders, the Board shall be authorized to set the payment date for the distribution of the payable preferred share dividends for the previous year. In the year of issuance and redemption, the distribution of the payable dividends shall be calculated based on the actual number of days the Preferred Shares remained outstanding in that year.  (2) Any earnings concluded in a fiscal year shall first make up for losses of previous years, right after statutory taxation and accounting adjustment. Any surpluses are subject to provision of legal reserves and special reserves according to the Articles of Incorporation, and to preferred shareholders the respective year's dividends are to be paid not exceeding them the remaining earnings hereof.  (3) The company has discretion over the dividend distribution of 2nd Preferred Shares. The company may decide not to distribute dividends of preferred shares in the following circumstances:(a) there are no earnings in a fiscal year, (b) the earnings are insufficient to distribute dividends of preferred share. The cancellation of dividend payment should not constitute an event of default  (4) 2nd Preferred Share preferred shares are noncumulative, and the preferred shareholders do not have the right to claim any of the unpaid or omitted dividends in the future.  (5) 2nd Preferred shares are not entitled to cash or stock dividends derived from earnings or capital reserve. |  |  |
|                                   | Liquidation of the remaining properties   | The order of claim for distribution of property is prior to ordinary shares, and the claim of all series of 2nd Preferred Shareholders are equal. The repayment shall be capped at the respective issue amount of preferred shares upon liquidation.   |  |  |
|                                   | Exercising the voting rights  | Not entitled to voting rights and have no rights to vote on election of directors but are entitled to be elected as directors. Holders of outstanding preferred shareholders have voting rights with respect to agendas that would affect 2nd Preferred Shares in preferred shareholders' meetings and in general shareholders' meetings.  |  |  |
|                                   | Others  | Have the   | same pre-emptive right as common shareholders for newly issued shares. |  |
| Out-                              | redeemed or converted amount  | NT\$ 0   |  |  |
| stand-<br>ing<br>pre-             | Unredeemed or unconverted amount  | NT\$ 10,00   | 00,000,000   |  |
| ferred<br>shares'                 | Terms of redemption or conversion   | Cannot be converted to common shares and holders do not have the right to request the company to redeem preferred shares.     And Preferred Shares are perpetual but may be redeemed in whole or in part at issue price anytime after five years of issuance at the option of the Company. Unredeemed preferred shares shall continue to have the rights and obligations of issuance terms prescribed in this Article.   |  |  |
| Market                            | The current year  | Highest  | NT\$ 53.00   |  |
| Price<br>per                      | May 10, 2019<br>(Note 1)  | Lowest   | NT\$ 50.90   |  |
| Share                             |   | Average NT\$ 52.00   |  |  |
| Other<br>Rights<br>Att a fit      | The converted or subscribed amount up to the publication date of the annual report                  | 2nd Preferred Shares Cannot be converted to common shares and holders do not have the right to request the company to redeem preferred shares.   |  |  |
|                                   | Guidelines of issuance, conversion, or subscription   | NA   |  |  |
| shares, p                         | cts to the holders of preferred<br>cossible dilution of the equity,<br>to the current shareholders' | NA   |  |  |

Note 1: Fill up with the information of the current year up to the publication date of the annual report.

### **4.11.2 Information of preferred shares with warrants:** NA

### 4.12 Status of global depositary receipts (GDR):

| O   |                                   |                          | •  |
|---|-----------------------------------|--------------------------|--|
| Item  | (P                                | suance<br>rocess)<br>ate | August 3, 2018   |
| Locate of   | Issuance and E                    | xchange                  | EuroMTF, Luxembourg Stock Exchange                         |
| Total Issuance Amount   |                                   |                          | USD 548,625,000  |
| Issuance Price per Unit   |                                   |                          | USD 6.27 per unit  |
| Total Issu  | ed Units                          |                          | 87,500,000 units   |
| Source of ble secur   | the represente                    | d negotia                | The common shares from the cash capital increase           |
|   | of the re<br>le securities        | presented                | 437,500,000 shares   |
|   | d Obligations o<br>ers of the GDR | f                        | Rights and obligations are identitcal to the common shares |
| Trustee   |                                   |                          | NA   |
| Deposito  | ry Institution                    |                          | CITI Bank  |
| Custodian   |                                   |                          | First Commercial Bank                                      |
| Outstand<br>unredeer  | ing balan<br>ned GDR (Marcl       |                          | 0 units  |
|   | on of the relate<br>suance and c  |                          | Borne by the Company                                       |
| Important agreed matters in the depository and custody agreements |                                   |                          | Please refer to the depository and custody agreements      |
| Market  | January 1,                        | Highest                  | US\$7.069  |
| Value<br>pervper  | 2018 to<br>December 31,           | Lowest                   | US\$5.403  |
| Share   | 2018                              | Average                  | US\$6.185  |
| (Note1)   | January 1, Hi                     | Highest                  | US\$6.950  |
|   | 2019 to                           | Lowest                   | US\$5.688  |
|   | May 10, 2019                      | Average                  | US\$6.322  |

Note 1: Fill up with the information of the current year up to the publication date of the annual report.

- **4.13 Status of employee stock options/warrants:** NA
- 4.14 Status of restricted stock awards (RSA):NA
- 4.15 Status of acquisition or transfer of other newly issued shares from other companies:  $\ensuremath{\mathsf{NA}}$
- 4.15.1 Comments of participating underwriters and the status of new share issuance relating to mergers, acquisitions, and transfer of shares in the previous quarter:NA
- 4.15.2 Basic data of the transferee of shares:NA

### 4.16 Capital utilization plan

- 1. Description of the plan and the execution:
- (1)The placement and issuance of 2018 First Unsecured Corporate Bond:
- A)Capital utilization plan: filling up the operating funds and investing in domestic or overseas companies.
- B)Approved date and document no.: Dated June 12, 2018, Zheng-Guei-Zai-Zhi No. 10700148971

C)Amount needed for this plan: NT\$ 12,000,000,000.

D)Source of funds: issuing unsecured common corporate bonds for NT\$ 12,000,000,000.

E)Items of the plan and the executions

(expressed in NT\$ thousands)

|  |                          |                               | •                          |  |
|--|--------------------------|-------------------------------|----------------------------|--|
| Items of<br>the plan                             | The executio             | ns                            | As of<br>March<br>31, 2019 | Reason of<br>being early or<br>late<br>and the<br>improvement<br>plan  |
| Filling<br>up the                                | Amount to be used        | Estimated Actual execution    | 5,000,000                  | Fully executed as the plan   |
| operat-<br>ing<br>funds                          | Progress of execution(%) | Estimated Actual execution    | 100.00%                    |  |
| Invest-<br>ing in<br>do-                         | ng in be used            | Estimated Actual execution    | 750,000<br>1,400,000       | To accelerate the investment in the  |
| mestic<br>or<br>over-<br>seas<br>com-<br>panies. | Progress of execution(%) | Estimated<br>Actual execution | 10.71%<br>20.00%           | domestic business, NT\$ 650,000 thousands has been used early. Unutilized funds N T \$ 5,600,000 thousands sare executed in accordance with the future funding plan. |

(2) Issuance 2nd Preferred shares for capital raising in 2018, new shares issuance for sponsoring issuance of global depositary receipts and 2018 First Unsecured Corporate Bond:

A)Capital utilization plan: investing in overseas companies and repay the borrowings from banks

B)Approved date and document no.: Dated July 25, 2018, Jin-Guan-Zheng-Zhi No. 1070325853, No. 10703258531, and No. 10703258532.

C)Amount needed for this plan: NT\$ 40,000,000,000.

D)Source of funds: Issuance 2nd Preferred shares for capital raising for NT\$ 10,000,000,000; new shares issuance for sponsoring issuance of global depositary receipts for USD 548,625,000, and 2018 First Overseas Unsecured Convertible Corporate Bond for USD 400,000,000.

E)Items of the plan and the executions

### (expressed in NT\$ thousands)

| Items of the plan                  | The executions           |                  | As of March<br>31, 2019 | Reason of being early or late and the improvement plan |
|------------------------------------|--------------------------|------------------|-------------------------|--|
| Investment overseas company - TCCI | Amount to be used        | Estimated        | 15,000,000              | Fully executed as the plan                             |
|                                    |                          | Actual execution | 15,000,000              |  |
|                                    | Progress of execution(%) | Estimated        | 100.00%                 |  |
|                                    |                          | Actual execution | 100.00%                 |  |
| Investment overseas company-TCCIH  | Amount to be used        | Estimated        | 21,000,000              | Fully executed as the plan                             |
| , ,                                |                          | Actual execution | 21,000,000              |  |
|                                    | Progress of execution(%) | Estimated        | 100.00%                 |  |
|                                    |                          | Actual execution | 100.00%                 |  |
| Investment overseas company-CCC    | Amount to be used        | Estimated        | 780,000                 | Fully executed as the plan                             |
|                                    | , iiii daire to be docd  | Actual execution | 780,000                 |  |
|                                    | Progress of execution(%) | Estimated        | 100.00%                 |  |
|                                    |                          | Actual execution | 100.00%                 |  |
| Repaying the borrowings from banks | Amount to be used        | Estimated        | 3,220,000               | Based on the demands of fund movement,                 |
| , , ,                              |                          | Actual execution | 0                       | extend the schedule of repayment of banks'             |
|                                    | Progress of execution(%) | Estimated        | 100.00%                 | borrowings.  |
|                                    |                          | Actual execution | 0%                      |  |
| Total                              | Amount to be used        | Estimated        | 40,000,000              |  |
|                                    |                          | Actual execution | 36,780,000              |  |
|                                    | Progress of execution(%) | Estimated        | 100.00%                 |  |
|                                    |                          | Actual execution | 91.95%                  |  |

Note 1: the exchange rate of NTD to USD is estimated as NTD 30  $\,^{\circ}$  USD 1 Note 2: TCC International Ltd., referred as TCCI hereafter.

Note 3: TCC International Holdings Ltd., referred as TCCIH hereafter.

Note 4: Continental Carbon Company, referred as CCC hereafter.

### 2.Evaluation for Effects of Execution

| Item   | 2017 (Before execution) | 2018 (After execution) | (Increase/decrease) |
|--|-------------------------|------------------------|---------------------|
| Current assets (expressed in NT\$ thousands)             | 92,719,914              | 110,380,695            | 17,660,781          |
| Current liabilities (expressed in NT\$ thousands)        | 65,192,960              | 64,503,844             | (689,116)           |
| Total liabilities (expressed in NT\$ thousands)          | 119,909,833             | 146,705,662            | 26,795,829          |
| Total equity (expressed in NT\$ thousands)               | 136,348,204             | 181,541,510            | 45,193,306          |
| Interest expenses (expressed in NT\$ thousands)          | 1,764,869               | 2,249,022              | 484,153             |
| EPS (NT\$)   | 1.82                    | 4.37                   | 2.55                |
| Current ratio (%)  | 142.22                  | 171.12                 | 28.90               |
| Liabilities to assets ratio                              | 43.99                   | 42.64                  | (1.35)              |
| Long-term capital to property, plant and equipment ratio | 218.95                  | 306.92                 | 87.71               |

As demonstrated in the table above, the EPS in 2018 increased NT\$ 2.55 from 2017, the financial structure was also better than 2017, the outcome of executions is supposed to be good.

(2) The funds raised with Issuance 2nd Preferred shares for capital raising in 2018, new shares issuance for sponsoring issuance of global depositary receipts and 2018 First Overseas Unsecured convertible Corporate Bond were used to investment in overseas companies, namely TCCI, TCCIH and CCC, for them to repay the banks' borrowings of these invested companies. In terms of the the saved interests from these repaid loans, the estimated effects are not materially different from the actual achievement.

### **Overview of Operation**

### 5.1 Business activities 5.1.1 Scope of business

| Sector               | Proportion in operations |
|----------------------|--------------------------|
| Cement               | 74.3%                    |
| Chemical Engineering | 12.3%                    |
| Power Plant          | 10.2%                    |
| Others               | 3.2%                     |
| Total                | 100.0%                   |

### 5.1.2 Industry overview

### 5.1.2.1 Cement sector

#### Status and future development

Taiwan cement industry is a mature industry. Regarding the capacity of clinker rotary kilns, as the mineral claims of western Taiwan expired in 1997, and capacities thus suspended, the current installed capacities are 20.24 million tons. Part of the capacities have halted or reduced the amount of production. Base on the statistics of the Cement Manufacturer's Association, the members have produced 10.94 million tons in 2018, and the domestic consumption for the whole year was 10.68 million tons, or 453kg per capita annually.

Looking into 2019, the economic growth in the US and Europe is moderate. Though the emerging markets continue to grow, the uncertainties resulted from the US-Mainland China trade war may affect Mainland China's economy and the growth may slow down. Taiwan is not immune from this impact; the export may slow down and the growth may be weaker. Even though investments from ICT companies continue to grow, the property market and construction investments are still weak, therefore, the government's Forward-looking Infrastructure Program is expected to realized and executed gradually in 2019. The overall market is expected to show flat growth in 2019.

### Supply chain relationship

Industries in relation to the cement industry include the quarry industry supplying limestone and clay, the mining industry supplying silica sand, the smelting and refining of iron and steel industry supplying cinders and furnace slags, and the coal-fire power plants supplying fly ash and flue gas gypsum at upstream; the supportive industries including the electricity supply, gas fuel supply, railway transportation, land transportation, and sea transportation at the mid-stream; and the downstream industries requiring cement supply, including construction, ready-mix concrete (RMC), cement products (such as concrete pipes, cement bricks, gypsum, asbestos pipes, and asbestos tiles), and other industries (such as the geological

engineering of oil wells).

### Product development trends and competitions

Although type I common cement is the most consumed type of cement, benefitting from the continuous support from the infrastructure projects in recent years, the demand for special cement has increased significantly. In addition, RMC plants have been increasingly replacing cement with fly ash and powdered furnace slag since 1995 has brought impacts to a certain extent on cement demand.

### 5.1.2.2 Chemical engineering sector Status and future development

During 2012 to 2018, a total of 13 new plants of phenol/acetone were established. In 2018, CNOOC of Mainland China (annual capacity as 220,000 tons of phenol) and Deepak of India (annual capacity as 200,000 tons of phenol) began production. Currently, the expansion trend has waned. The downstream products, such as Cyclohexanone, Bis-phenol A, Polycarbonate...etc, from 2017 to 2019, more capacities have entered the market, and the annual consumption of phenol has been increasing by 860,000 tons per year. The oversupply issue of phenol/acetone seen in the recent years has been mitigated.

### Supply chain relationship

### (1)Complete industry chain with high interconnection

Phenol is mainly supplied to petrochemical downstream industries to produce synthetic fibers, engineering plastics, industrial solvent, electromechanical products, construction materials, automotive materials, specialty chemicals, and pharmaceutics. Propene and benzene from the petrochemical industry at upstream are the main materials for phenol production. As the petrochemical industry in Taiwan has been systematically planned and developed with a complete industry covering the up-, mid-, and down streams, and products from each part of the industry can be ingredients or products of one another, each segment of the industry is thus highly correlated.

#### (2)Application diversity

Petrochemical products are widely used in industrial and consumer goods. In addition to materials for the mid- and down-steam industries which turn petrochemical intermediate materials into consumer goods at the downstream for eating, clothing, housing, and transportation through primary and secondary processing. In related industries, the plastics industry provides raw materials for producing construction materials, electromechanical products, automotive, entertainment equipment, and wires and cables; the synthetic fiber industry provides raw materials for clothing, agricultural and fishery implements, and tires; solvents can used in industries including

food processing, food additives, printing ink, paints and coatings, and pesticides; and other applications include fertilizers, cleaning agents, pharmaceutics, medical devices, OA equipment, bonding agents, containers, and so on.

### (3)Interrelations between upstream materials and phenol products

Phenol products are made with propene and benzene obtain from naphtha cracking. After alkylation reaction, they become isopropylbenzene, from which phenol and acetone are produced by means of oxidation, cracking, separation, and purification. Then, the synthetization of phenol and acetone produces BPA. Through hydrogenation, phenol produces cyclohexanone products.

### (4)Interrelations between phenol products and downstream industries

The application of phenol products is comprehensive. Domestically, isopropylbenzene is only used to produce crosslinking agents. Most phenol is used to produce phenol formaldehyde resin as the material for bonding agents and printed circuit boards (PCBs). Acetone is the main ingredient for producing MMA, the material for making acrylic. Acetone is also a solvent. BPA is used to produce epoxy, and PCB as well. It is also an ingredient of PC, a material. Cyclohexanone is mainly used to produce CPL and as a solvent.

### **Development trends of products**

Phenol: In global phenol demand, BPA is the highest, phenol formaldehyde resin is the second highest, followed by CPL and alkylphenol.

Acetone:As a by-product of phenol, acetone supply is sufficient, as the number of new phenol plant constructions has been growing. In the future, the market demand and the propane price will determine the acetone price. About 30% of acetone is used to produce MMA (an acrylic ingredient). Apart from being one of the major ingredients of BPA, acetone is mostly used in the solvent market.

BPA: Global growth continues to grow annually and BPA is mainly used to produce PC and epoxy. Other applications include flame retardants, UPRs, polyacrylate, polyimide (PI), and polysulfone (PSF).

Cyclohexanone: It is the main ingredient of CPL and also used as a solvent. As the industrial development is rather stable, sales are stable.

Maleic anhydride: Apart from an ingredient of UPRs, BDO, THF, and GBL, MA is also used to produce paints, lubricant additives, pesticides, tartaric acid, GBL, succinic acid, anhydride, tetra hydro-phthalic anhydride (THPA), and modified rosin. MA has a steady annual growth.

### Product competitions

Phenol: In addition to TCC, Formosa Chemicals & Fibre and Chang Chun Group produce phenol, hence supply has been greater than demand. As the same situation is also found in Asia, Japan, and South Korea, mainly export excess production volume to Mainland China, India and Southeast Asia. However, it is difficult to enter the Southeast Asia market which is dominate by Japanese suppliers. Furthermore, as the new capacity in Mainland China enters the market, the supply is also greater than the demand. As most phenol is consumed internally for producing BPA and cyclohexanone, and only a limited quantity is exported annually, we have a greater flexibility.

Acetone: As the supply is greater than the demand, prices are subject to market demand. In response, we have hired domestic research institutions to develop acetone reuse, in order to consume the excessive acetone.

BPA: In addition to TCC, Nanya Plastics and Chang Chun Group produce BPA, and the supply is greater than the demand. The capacities in Japan and South Korea are also greater than the domestic demand, and the surplus is exported to Mainland China, India, Southeast Asia, and emerging markets.

Cyclohexanone: Except TCC Group, Sinopec Group also produces cyclohexanone; Mainland China suppliers are the main competitors of our cyclohexanone export. Apart from producing CPL, cyclohexanone is mostly used as a solvent.

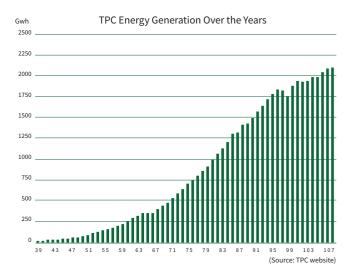
Maleic anhydride: Other than TCC Group, the domestic producers include Nanya and Hexing. It is mainly used in the production of UP resin. Supply exceeds demand. But TCC's focus is on the production and application of the down stream hydrogenation.

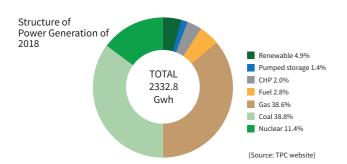
### 5.1.2.3 Electricity sector

#### Status and future development

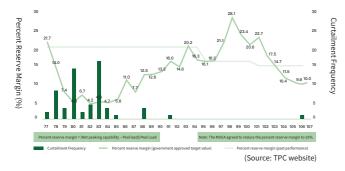
Stable electricity supply and the sustainable development of the electricity industry are crucial to the daily life of people, industry competitions, environmental protection, and national security. Although the government's monopoly of the electricity industry ended in 1995, and it has been 24 years since the liberalization of the electricity industry, no significant change has been seen in the overall structure of the electricity industry since 2009. As a state-owned business, Taiwan Power Company (TPC or Taipower) has monopolized Taiwan's integrated electricity market. Although TPC cultivates electricity sources based on its Long-Term Electricity Development to meet with national economic development, as the domestic economy began to thrive and the electricity demand rose by leaps and bounds in 1989, the percent reserve margin dropped rapidly to

way below the current margin at 15%, as shown in the charts below. Particularly, curtailment by means of "outage in turns by region" is inevitable at times in summer when electricity demand escalates. This thus affects the willingness of investments and long-term economic development.





### Percent Reserve Margin and Curtailment Frequency



To relieve the pressure from insufficient electricity supply, enhance the operational efficiency of the overall electricity industry, and keep pace with the global trend of electricity liberalization, the MOEA decided to approved the establishment of independent power plants (IPPs) to make use of the operational flexibility of the private sector, stabilize electricity supply, and promote electricity liberalization. In September 1994, the

MOEA established the Directions for Deregulation of the Electricity Industry as the operating procedures to opening the electricity industry to the private sector. Further in January 1995, the MOEA promulgated the Requirements for IPP Establishment for the private sector to understand the procedures and review of application for IPP establishment, putting an end to the electricity market monopoly.

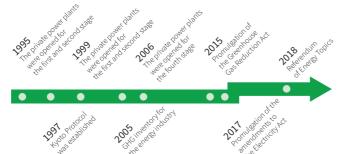
The deregulation took place in three phases: January 1995, August 1995, and January 1999. A total of 15 IPPs were approved to establish, and nine were eventually completed, with a total capacity of 7.71 GWh. Along with the boom of cogeneration, Taiwan's electricity market entered the "electricity liberalization" period.

The escalation of the global fossil fuel price since 2006 has brought severe impacts to the operational environment of the electricity industry. In face of global warming, low-carbon economy, low-carbon energy, and low-carbon electricity will become the main goals of global development. Taiwan lacks of self-sufficient energy supply, to ensure the sustainable development of the electricity industry in the inevitable trend of GHG reduction, developing low-carbon electricity, promoting energy conservation, and enhancing electricity efficiency are natural trends. At this point, Taiwan's electricity market entered the "energy conservation and emissions reduction" period.

In addition, as no further amendment has been made to the Electricity Act established in 1947 and amended in 1965 for over half a century, the long-term monopoly of the integrated electricity industry has slowed the industry's liberalization and failed to bring in competitions and a reference for performance rating. To keep pace with time and keep up with national economic development, the Legislative Yuan (legislature) eventually amended the Electricity Act on January 26, 2017. This amendment was made chiefly for three reasons: (1) electricity liberalization, (2) encouragement of renewable energy development, and (3) nuclear-free homeland.

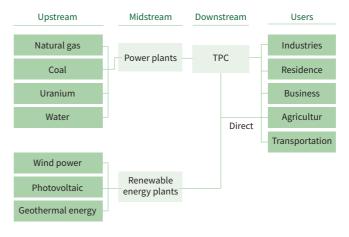
The Bureau of Energy (BOE)has also begun to amend related by-laws and establish supporting measures. We will keep track on the amendment schedule to plan and adjust our long-term development directions.

Major events of Taiwan's electricity industry in recent years



#### Industry chain relationship

Currently in Taiwan, electricity generation include the following types. After electricity liberalization began, new IPPs entered the market, particularly in the renewable energy sector. In support of the government's green energy policy emphasizing energy conservation and emissions reduction, TCC has activity engaged in the construction of related renewable energy facilities.



### **Development trends of products**

After the proclamation of the Paris Agreement at the COP21 in 2015, countries in the world have since been inhibiting GHG emissions at full stretch for the common good of the Earth. Reduce the dependence to the petrochemical to implement carbon reduction, and develop an autonomous and diversified energy industry, so that the dependence to the imported energy is decreased as well. Currently the Government is actively promoting the development of renewable energy, through the "Two-year promotion program of solar photovoltaic" and the "Four-year promotion program of wind-power." It seeks to achieve the goal as "realizing the structure of power generation as 20% of renewable energy, 50% of natural gas, and 30% of coal by 2025" gradually.

### 5.1.3 Technology and RD status

In 2018 and by the date of report publication in 2019, we have invested a total R&D expense of NT\$23,666,000 and NT\$10,937,000 (January-March 2019) respectively. The technology and R&D status of major sectors are as follows:

### 5.1.3.1 Cement sector

- TCC has the only professional cement and concrete research laboratory in Taiwan, with the scope of research covering three main domains: cement, concrete, and resource recycling.
- In support of the circular economy, apart from developing new products and optimizing the quality of existing products, we also actively develop technologies in the following areas:

- •Expanding the scope of resource recycling: Blending recycled aggregates, industrial waste, fly ash from refuse incineration and power generation and steel slag for reuse and processing as refuse derived fuel (RDF)
- •Cement kiln co-processing of household garbage and toxic waste treatment.
- •Reducing unit energy consumption and carbon emissions during process.
- •Combining calcium-looping carbon capture system with the carbon capture, storage, and utilization (CCSU) functions of microalgae culture.
- ■Successfully developed technologies or products:
- Developed and achieved mass production of type II high-performance cement and types II/V high-strength cement.
- •Developed and achieved mass production of type IV cement with quality complying with the CNS requirements and special construction requirements. The product has been awarded with the CNS mark and MIT Smile Logo.
- Development of the mass production capability of 10000psi high-performance concrete.
- Development of the mass production capability of self-compacting concrete.
- Development of the mass production capability of high impermeability concrete.
- Development of technologies for the testing and recycling of calcium fluoride sludge.
- •Development of technologies for testing trace elements in
- · Development of technologies for using sludge.
- •Technology to process domestic garbage with cement kilns
- Development of treatment technology for reducing cement pre-sintering in the rotary kiln.
- R&D of technologies for energy conservation and emissions reduction using thermoelectric materials on rotary kilns for waste heat power generation.
- Expansion of the scope of microalgae culture technology and completion of the trial development of astaxanthin cosmetics.
- •Completion of the trial productions of four medical cosmetics products, including bubble cleansing masks, moisture crystal serum, anti-aging dual pearl, and juvenile cream. The health inspections for these products were also completed to ensure their qualities.
- Development of giftbox of Haematococcus pluvialis products, including soba noodles, seaweed, Litsea cubeba, and shichimi.
- For the material of cosmetics for ASTAROSE, INCI, the name / trade name are registered.

- Pilot run of the 1.9MWt calcium-looping plant for continuous operation up to 100 hours, with a carbon capture rate up to 85-93%
- ·Construction of a 500KWt new-generation steam hydration and cascade cyclone carbon capture system using calcium looping have been completed, with accumulative operating hours for 1,200 hours.
- •The Calcium-Looping technology for CO2 capture has applied 26 patents under 13 items, and now 22 of them are granted and one is pending.
- Development of the formula of cement mortar specifically for perfusion, and the promotion of craftmanship workshop of cement.
- ■Future research projects and new product development plans
- •The new generation of calcium-looping technology for CO2 capture: development of the project of "Validation of Calcium-Looping Technology for CO2 Capture and the R&D for Amplifying Technology," which implemented a long-term continuous operation for validation. The key points of the project include:
- (1) Optimization and improvement of unit system, to enhance the stability of operation for the whole system;
- (2) Test of long-term stable operation for the new generation of calcium-looping technology for CO2 capture;
- (3) The industrial amplified application demonstration of the capture system, it is promoted to conduct the detailed design on the basis of the 10MW grade capture system with calcium looping, and also establish the engineering specs for the industrial amplified capture system.

Development of microalgae culture technology: Implementation of the three-year High Efficiency Biological Carbon Fixation and Application TDP (II) plan, including

- (1) Development of the High-Efficiency Microalgae Growth Model and Biomimetic Application.
- (2) Research of the High-Efficiency Outdoor Culture of Carbon Fixation Microalgae and Application.
- (3) Development of Product Synthesis Technology Using Two-Stage Biological Carbon Fixation and the Procedures.
- (4) Assessment of the Economic Efficiency of Producing High Unit Price Products with Biological Carbon Fixation.
- •Currently the second-year plan is under progress. The focus is on developing the biomimetic compounds accelerating the growth of microalgae, and the exploration of their applications for the growth of microalgae, as well as the feasibility of adding microalgae to food. In addition, we further optimized the production and the efficacy of bio carbon fixation/product. The small bio carbon fixation fermentation system is planned as the basis of the test and demonstration of the high efficiency bio carbon fixation.

### 5.1.3.2 Electricity sector

### Major business contents at present:

- ■As far as coal-fired generation is in use, we are actively enhancing boiler burning efficiency and improving the air quality control system (AOCS) to reduce GHG emissions. Up to now, the plan and design of renovation is under progress. It is expected to complete the enhancement for the efficacies of two power generation sets and the efficiency of the prevention equipment in 2020-2023.
- ■As for the promotion of renewable energy, TCC, as the leader in the traditional industries, follows the pace of the Government's energy transformation, and actively develop and invest in renewable energy. TCC Green Energy actively develops solar photovoltaic, wind-power, and geothermal power generation. Currently in Taipei, Changhua, Yunlin, Chiayi, and Tainan, the solar photovoltaic and wind-power plants are promoted, and the geothermal power plants are promoted in Hualien and Taitung, as our contribution to response to the Government's energy transformation.

#### 5.1.3.3 Chemical engineering sector

- ■Apart from continuously improving process operation and enhancing quality stability to achieve operational and development goals, we planned, designed and implemented production capacity enhancements.
- ■To fulfill the environmental responsibilities, we invested on the improvement in the regards of waste gas and water generated during the production, to reduce the emission.
- We commissioned external research institutions to analyze the value enhancement of main products and research the use of chemicals in the optoelectronics area, in order to find opportunities to increase the value and develop new chemicals for optoelectronics.

### 5.1.4 Long- and short-term development plans

### 5.1.4.1 Cement sector

### Short-term development plan

(1) As the cement industry in Taiwan has matured, we will aim at maintaining market share, reducing cost, and increasing profit. (2) In Mainland China, through construction, mergers, and acquisitions over the past few years, we have established cement complexes in Guangdong, Guangxi, Jiangsu, Liaoning, Guizhou, Sichuan, Chongging, Hunan, and Yunnan. We have also set up grinding stations in Liuzhou of Guangxi, Fuzhou of Fujian, and Naxi of Sichuan. The combined capacity in Mainland China is up to 64.30 million tons. Adding up Taiwan's capacity and the total is up to 74.70 million tons, we were ranked the sixth largest groups in Mainland China's cement sector. After the privatization of TCCIH in 2018 and with regard to the green development, supply side reformation, and environmental

protection policies of the business, we maintained leadership in green process and regional market share to increase profit for

(3) Other than the business in Taiwan and Mainland China, TCC has established a new wholly-owned Dutch subsidiary Dutch TCC Holdings and set up a joint venture ("JVC" hereafter) with OYAK from Turkey. TCC and OYAK holds 40% and 60% stake of the JVC, respectively. This JVC will obtain all the cement business of OYAK in Turkey. This is a first step of TCC to step out of the Asian market. Through the partnership with OYAK and the special positioning of Turkey in the Mediterranean Area, it is expected to make the JVC become an influential player in the cement industry via strategic M&A or partnerships, and which in turn helps the future global positioning of TCC.

### Long-term development plan

- (1) Starting from the JVC, the objective is to expand into European and African countries, to find the suitable partners or location, for the purpose of extending the cement business to other geographic areas in the world actively.
- (2) In response to the establishment of cement plants and grinding stations in Mainland China, we will invest in building aggregate plants, ready-mix concrete plants, or in the precast added value. Also, we have been actively establishing environmental protection companies, working collaboratively with the cement plants to treat the city garbage, industrial waste, and hazardous waste, as the projects to achieve circular economy.
- (3) Apart from maintaining the brand status in Taiwan, we are devoted to improving product quality and customer services in Southern China, Southwest China, and Eastern China. TCC aims to keep roots in Taiwan and cultivate Mainland China, in order to become the top brand in Southern China and a leading cement manufacturer in Mainland China.
- (4) Using the three high's process characteristics—high temperature, high retention time, and high turbulence—of the cement kiln, TCC aims to develop the value chain of the circular economy through "environmental protection service integration" which processes solid waste, such as city garbage, sludge and toxic waste.
- ■Cement kiln co-processing household garbage projects
- In December 2015, the first equipment set of cement kiln co-processing household garbage began operation successfully at the TCC Anshun Cement Co., Ltd. in Pingba District, Anshun City, Guizhou Province, Mainland China, The complex was listed as the "Key Demonstration Project of Cement Kilns for Co-Processing of Household Garbage in 2016" by the Ministry of Industry and Information Technology and Ministry of Finance of China.
- -A new set of cement kiln for co-processing household garbage is under construction at TCC (Shaoguan) Cement Co., Ltd. in Qujiang District, Shaoguan City, Guangdong Province.

We have also signed a 25-year household garbage processing agreement with the local government in July 2016. The equipment procurement has been completed and the construction has been outsourced. Operation is estimated to begin at the end of 2020.

- At the end of 2018, TCC's Jinzhou plant, located in Jinzhou county in Hunan province, has received approval from Jinzhou county government of constructing cement kiln co-processing household garbage treatment project. The county government is currently conducting single-source process and project construction is expected to begin in second-half 2019.
- For the co-processing of household garbage for Hualien County by Ho-Ping Plant, the preparation of the explanation seminar before the environmental impact evaluation. The goal is to complete the installation of related facilities by the end of
- Projects of cement kilns for collaborative processing of solid and hazardous waste
- -On January 8, 2019, the permit was granted by the Yilan County Government. On the basis that the Suao

Plant has been processing calcium fluoride sludge from the semiconductor industry, coal bottom ash and fly ash, the concrete industry to achieve vertical integration and create county government has agreed the Suao Plant to further process reducing slags from steel mills, sludge from water purifier, inorganic sludge form chemical factories, and the recycled aggregates of the IBA from the incinerators.

- -On August 2, 2018, the Ho-Ping Plant has obtained the approval letter of assessment for environmental deviance, on November 5, 2018, the approval of waste cleaning plan by the Environmental Protection Bureau of Hualien County Government was obtained, and on February 11, 2019, the Hualien County Government granted the permit for operation. On the basis that the Ho-Ping Plant has been processing coal ashes from power plants, inorganic sludge from paper-maker, stone sludge and derived stone powder, the county government has agreed the Ho-Ping Plant to further process the calcium fluoride sludge from the semiconductor industry, slags from steel mills, sludge from water purifier, and plastic molds from the packag-
- In February 2019, the TCC Dongyuang Environmental Corp's project of 300,000 tons of toxic waste and 30,000 tons of sludge from sewage processor obtained environmental impact evaluation approval and the construction permit. The construction outsourcing for the first phase, the construction for 200,000 tonnes of hazardous waste has been complete in March, and the operation is expected to begin in December 2019.
- -On February 20, 2019, Kaili City Development and Reform Bureau has approved the project for our Kaili Plant in Guizhou Province, with capacity to treat 50,000 tonnes of hazardous waste annually.

### 5.1.4.2 Chemical engineering sector

### Short-term development plan:

(1) As the first company to manufacture phenol in Taiwan, our chemical engineering sector produces phenol in stable quality and thus plays a decisive role in the market. With full knowledge of market information and trend, our chemical engineering sector can achieve the balance between production and sales.

(2) Domestically, we aim to increase market share. In export, we aim to diversify markets and extend sales to Mainland China, Japan, South Korea, and Thailand. To increase product added value, apart from selling bulk phenol, we do offer phenol in barrel. (3) Apart from developing closer relations with upstream suppliers and downstream customers to improve capacity in production-sale coordination, we enhance customer connections and provide good after-sale services to fulfill customer demands.

(4) We make real-time response to market condition with a flexible pricing policy. When the price rises, we increase product prices to create more profit for the Company. When the price falls, we make immediate response to avoid overstock.

#### Long-term development plan

(1) In the long run, we aim to develop into an integrated precision petrochemical production-sale system. Apart from developing downstream products, we increase self-consumption to reduce risk from dead stock.

(2) We voluntarily invest in equipment, constantly resolve product obstacles, expand capacity, and reduce unit cost to make the Company's products more competitive for sustainable development.

### 5.1.4.3 Electricity sector

### Short-term development plan:

(1) Based on the environmental policy made ISO 14001, we are committed to:

Abiding by environmental regulations and environmental impact assessment to prevent disputes on pollution.

Making continual equipment improvement to improve pollution control performance.

Implementing waste sorting and reduction to achieve resource recycling.

Performing periodic monitoring to ensure pollution prevention. Establishing an environmental management system to implement environmental control.

Offering education and reporting periodically to communicate externally with documents.

Inviting outsiders to visit our plants to present our performance transparently.

(2) Implementing ISO 9001 quality management system (QMS) By implementing the QMS, we make continuous improvement of machinery performance to provide customers with stable and reliable quality electricity services.

(3) Implementing five-star NOSA safety and health management system

By implementing the QMS, we make continuous improvement of machinery performance to provide customers with stable and reliable quality electricity services.

Mid-term development plan:

(1)Execution of the Project for Enhancing the Efficiency of Boiler

①In November 2018, Yusen Logistic and Idemitsu came to install the ULTY control system. Now the verification for the functions of the facility is under progress.

②March to June 2019, Shanghai Boiler will come to the plant for the project of adjusting the boilers at the first generating set.

### Long-term development plan

(1) Improvement of AOCS:

Assessed technology improvement plans

|  | 0, 1                                       | •  |  |
|--|--|--|--|
| Item   | NOx ppm                                    | SOx ppm  | PM mg/Nm <sup>3</sup>                      |
| Current standard                               | 50   | 50   | 20   |
| Target after emission reduction                | 30   | 30   | 10   |
| Assessed<br>technology<br>improvement<br>plans | ◆Increase the volume of catalyst reactors. | ◆Improve flue gas desulphurization (FGD) towers. | ◆Increase wet electrostatic precipitators. |
|  | ◆Invest in low nitrogen burners.           | ◆Select no leakage gas reheaters                 |  |

The plan is to complete the project of improving AQCS for the 2nd and 1st generating set by 2021 and 2023, respectively.

(2) Building new clean energy generation sets and engaging in the planning and investment of various renewable energy projects to increase profit.

Continue the assessment of adding more clean enegry generating sets, or installation of various renewable energy power plants, and participation of investment near the Plant or other locations in Taiwan, in order to increase the capacities and profitability, as well as corresponding the green energy promoting policy of the Government.

### 5.2 Market, production and sales

### 5.2.1 Market analysis

### 5.2.1.1 Cement sector

Sales regions, market share, future supply and demand, and future growth of major products

Cement and ready-mix concrete are our major products that are distributed across Taiwan and to overseas markets.

The 2018 cement consumption in Taiwan was 10.68 million tonnes, 510,000 tonnes or 5.01% more than 10.17 million tonnes in 2017.

The 2018 domestic sales of cement and clinkers (including consumption by own ready-mix cement plants) were 3.98 million tonnes, 5.85% higher than 3.76 million tonnes in 2016, with a market share of about 37.27%. The Taiwanese cement market in 2018 was driven by the Governmental forward-looking infrastructure projects; the increase in public construction led the growth in the holistic market. The sale price of cement was stable.

For the domestic cement market in 2018, as the cross-straight economic interaction reduces, the Sino-US trading war, and the fluctuation of the global financial markets, as well as less supply in the property market, even the fixed investment in ICT industry and manufacturing industry, it is expected that the demand of cement will maintain the 10.5 to 11 million tonne level. For TCC, it is expected to sell cement and clinkers domestically 4.1 million tonnes. The price in the domestic cement market will be stable. Bulk cement and bulk clinkers are our major exports. The exported cement and clinker exports were 1.45 million tonnes in 2018, same as 1.45 million tonnes in 2017. Our major export regions include Mauritius, Australia, the Philippines, and Hong Kong. An export reduction to 1.50 million tonnes is estimated for 2019. In the international cement market, the sales price will rise as a result of the demand growth in emerging markets, including Africa and Southeast Asia, and China becomes importer from exporter due to staggering production reduction. Africa and Southeast Asia will still be the major markets of our cement export in 2018, and the sales volume will reduce in support of the government's export reduction policy.

As a result of being driven by the Governmental forward-looking infrastructure projects, the domestic market had greater demands, the 2018 domestic sales of ready-mix concrete (including consumption by own ready-mix cement plants) were 5.43 million tonnes, 4.22% more than 5.21 million tonnes in 2017. It is estimated that raising profit and increase domestic sales will be the main targets for 2019, including 5.60 million tonnes of cement and clickers (including consumption by own ready-mix cement plants) for both domestic and export sales, about 3.13% higher than 2018 sales volume of 5.43 million tonnes.

In ready-mix concrete, the 2018 sales were 4.72 million m3, 10.53% or 450,000 m3 higher than 4.27 million m3 in 2017. Despite the sales reduction in the realty market, the estimated ready-mix concrete sales in 2019 will increase by about 5.20 million m3 from 2018 as a result of the increase in infrastructure construction projects.

### Competitive niche

As the largest and oldest cement and ready-mix concrete manufacturer and supplier and an example of successful vertical integration in Taiwan, our products are characterized by high quality and good market presence as a result of our strong RD capacity and stringent process control. In addition, we have

cement distribution locations and ready-mix concrete plants across Taiwan forming a complete sales network in every urban area to provide customers with the best products and services. These are the TCC competitive niche.

#### Favorable factors for industry development

1.In Taiwan, despite the market growth obstacles including the global financial volatility and the government's realty market suppression policy, as the government will continue to increase infrastructure and urban renewal, the market will remain stable in the long run. When the government continuously implements the forward-looking infrastructure projects in the future, the economic condition can be improved. As the growth momentum from the private sector is still strong in the long run, it is predicted that the cement industry will maintain steady development.

2.In mainland China, as industrialization, urbanization, and economic development continue, and environmental standards are getting increasingly stringent, restrictions on new capacity building and peak-off production reformation on the supply will continue. Such favorable policies for the cement market and industry will gradually reduce excessive capacity. The 2019 capacity in mainland China still reached 2 to 2.1 billion tonnes, and it is predicted that the mainland China market will enter a demand stagnancy with demand maintained for some time. As mergers, acquisitions, and centralization will still be the inevitable trends, we will prudentially assess the circumstances based on the economic condition in mainland China to maintain leadership in the cement industry.

### Unfavorable factors for industry development

1. Fees and taxes including commodity tax, air pollution fee and waste disposal fee, and the mining tax of the local government are still levied on cement domestically, thus bringing negative impacts on the development of the domestic cement industry.

2.While it is difficult to promote major infrastructure projects and private investments in Taiwan, and along with effect of the outflow of industries and realty price suppression, they will restrict the cement and ready-mix concrete demand of infrastructure and the construction industry, and it takes time for the domestic market to recover.

3.As environmental awareness escalates, external interference and obstacles of the application for the mining permit and permit extension intensify. Furthermore, as countries in the world have set reduction targets for GHG emissions, governments may take aggressive actions, such as production restriction, to keep their emission reduction commitment.

#### Countermeasures for unfavorable factors

1.In Taiwan, we will enhance cost control and integrate the Taiwan and China markets with information systems to boost

overall operational efficiency, continue to cultivate the domestic market, and maintain industry leadership. We will also actively persuade the government to implement the cement industry policy, the circular economy, and collaborative disposal of rubbish and industrial waste in accordance with national development, in order to pursue the sustainable development of the cement industry. The first project of cement kilns for collaborative processing of solid and hazardous waste in Guigang City, Guangxi Province, China, has passed the environmental assessment and obtained the approval. This is the largest project of processing of solid and hazardous waste in China. The first phase construction that processes 200,000 tonnes of solid and hazardous waste annually, is expected to start the production in December 2019. At that time, the effect of the green circular economy of the Company will be enhanced.

2. Taiwanese cement market is rather a mature industry with little room of growth. Therefore, TCC has invested in China's cement market, and the target market is at the Southern China while extending the Eastern and Southeastern China. At the end of 2009, to cope with the new Chinese policy that controlled the capacities, suspended new projects, encouraged M&A, and increased the concentration of the industry, TCC successfully merged and acquired the cement capacity of Chang-Xing Mining; from 2011, the capacities in Guizhou and Sichuang of Gangan, Kaili, Saide, Taichang were merged and acquired; in 2014, Sichuang Chuagtie and Hunan Jin Da Di Cement Company were merged and acquired. In 2018, the annual capacity of the Company in China has reached 64.3 million tonnes. In the future, apart from continuing M&A in China when opportunities emerging, the BOD approved the establishment of new joint venture on October 25, 2018. A new wholly-owned Dutch subsidiary Dutch TCC Holdings, a joint venture ("JVC" hereafter) between Dutch TCC Holdings and OYAK from Turkey. TCC and OYAK holds 40% and 60% stake of the JVC, respectively. This JVC will obtain all the cement business of OYAK in Turkey. This is a first step of Taiwanese cement industry out of the Asian market. TCC therefore become a key shareholder of a holding company that dominates Turkish market selling 73 million tonnes of cement per year with its 16% market share. Through the partner OYAK and the special position of Turkey in the Mediterranean Area, it is expected to make the JVC become an influential player in the cement industry via strategic M&A or partnerships, and which in turn helps the future global positioning of TCC.

3.We have organized the Organizational Sustainable Development Committee under BOD to hold meetings regularly to review climate change risks and set implementation targets and related measures. In addition, we continue to keep ahead of the existing environmental regulations. Apart from monitoring related environmental data in real time with information technology, the cement sector reviews the environmental performance indicators and sets explicit targets for pollutant reduction at the periodic business review meeting and keep track on the implementa

tion performance. Furthermore, with the circular economy operational model through "environmental service integration", we combine cement production with waste disposal to play an active role in "handling the complex relationship between nature and human beings", in order to fulfill our social responsibilities and create win-win for stakeholders.

### 5.2.1.2 Chemical engineering sector Sales (supply) regions of major products (services)

|                |            |        | (expressed in N | T\$ thousands) |
|----------------|------------|--------|-----------------|----------------|
| Year           | 2017       |        | 2018            |                |
| Sales<br>Type  | Amount     | %      | Amount          | %              |
| Domestic sales | 5,645,916  | 42.79  | 6,815,053       | 44.94          |
| Export sales   | 7,547,068  | 57.21  | 8,351,000       | 55.06          |
| Total revenue  | 13,192,984 | 100.00 | 15,166,053      | 100.00         |

#### Market share

### The domestic market shares are describe in the following table:

| 2017  | 2018               |
|-------|--------------------|
| 32%*  | 26% (Note)         |
| 46%*  | 44% (Note)         |
| 0%    | 0%                 |
| 100%* | 83% (Note)         |
|       | 32%*<br>46%*<br>0% |

Source: Statistics of Customs Services and TCC \*Domestic market share is calculated based on market circulation deducting the self-consumption of downstream production within TCC.

### Future supply and demand and future growth

### (1) Global supply

The technologies of phenol products are more advanced, with higher investment. The users have stricter requirements for the quality. As for the global supply of phenol, the Asian capacity is the greatest as 52.8%, followed by Americas and Europe. Basically, excessive products of these regions will mostly be exported to India, mainland China, or Southeast Asia.

#### (2) Global demand

Overall, the Company mainly supplies products to domestic manufactures of phenol formaldehyde resins, engineering plastics, cleaning agents, epoxy, and solvents. That is the domestic supply and demand are closely connector. Once the new product lines are built in the downstream markets, the export markets are getting active.

### (3) Future growth

Domestically, upstream raw materials including ethylene, propane, and benzene are supplied by CPC Corporation Taiwan (CPC) and Formosa Petrochemical Corporation (FPCC). Materials will be imported when supply is insufficient. Intermediate petrochemical materials are also fulfilled by domestic suppliers and imported for insufficiency. In addition to supplying phenol, acetone and cyclohexanone domestically, we export part of them for market dispersion. Due to our efforts in market cultivation, outstanding product quality, and stable supply, we now play an important role in the global supply of these products, with

internationally recoginzed products and high international competitiveness. In the future, customers will increase their demand for phenol formaldehyde resin, epoxy, PC, and related solvent markets. Future market growth is thus expected. We also engage active cost reduction, quality improvement, refining quantity enhancement, and equipment replacement, suggesting these markets are highly potential.

### Competitive niche

(1) Full capture of material sources

Long-term contracts are signed to secure the stable supply of materials, for the purpose of coping with the production.

(2) Unified quality policy

By maintaining a unified quality policy featuring operation standardization, work efficiency, and zero quality defect, we make constant innovation, overcome impacts and challenges on the market to promote business, make continual improvement of various systems and renew equipment to raise capacity, hoping to achieve all business targets.

### Favorable and unfavorable factors of development and countermeasures

(1) Favorable factors

①Outstanding technology and high market response

At the chemical engineering sector of the Company, we make continual technology improvement and communicate with customers with frequency visits to keep up with the latest development trends at home and abroad. With years of experience and achievements in chemicals manufacture, TCC passed ISO certification. As customers have great faith in our product quality, delivery punctuality, and after-sale service, we will continue to enhance the production efficiency of TCC to help cultivate more markets.

②Effective stock control and management through production-sales coordination meetings

The chemical engineering sector hold production-sales coordination meetings. Apart from reviewing the production and sales performance, the chemical engineering sector discusses and coordinates the current status of market, production, stock, and material supply to set the sales target and keeps track on implementation, in order to achieve the predicted target. Since the production-sales coordination meeting policy was launched, the results are good.

③Fluent sales channels and high entry barriers for newcomers As the chemical engineering sector is part of the petrochemical industry which is both technology- and capital-intensive, it requires a huge amount of capital, human resources and technology to establish a scaled petrochemical plant, and not to mention about the need to pass EIA and the agreement of local residents. Objectively speaking the hurdle to enter the business is higher. TCC has a long history of product manufacturing, and thus the professional image, market position and a complete network of marketing has been established. There

fore, in the regards of capacity and market sales, TCC has the efficacy from the economic scale, and the costs of productions are lowered, to offer very competitive products. As the result, TCC becomes one of the key suppliers to the petrochemical industry.

(2) Unfavorable factors

Excessive capacity and low import tariff

The import tariff of petrochemical products too low to protect domestic suppliers and with the free trade, foreign suppliers make use of the higher price advantage in the local region and sacrifices a small quantity at lower prices to compete with our products. As a result, the sales price of products falls, and revenue reduces.

- (3) Countermeasures
- ① Keeping close connection with upstream suppliers and downstream consumers to capture the exact status of customers
- ② Increasing output and improving technology to reduce production costs and strengthen product competitiveness.
- ③ Setting reasonable sales prices, offering well-planned after-sale services, and dispersing markets to stabilize sales volume.
- ④ Developing downstream products with higher added value to increase self-consumption and reduce the risk of dead stock.

### 5.2.1.3 Electricity sector

#### Sales regions of major products

Based on the the electricity purchase agreement, the electricity sector sells all electricity generated to the TPC, for them to allocate the power supplies in Taiwan.

#### Market share

Based on the statistics on the official website of TPC, until the end of 2018, the total capacity of facilities in Taiwan is 445.1GW, and the net power generation in 2018 was 23.33 MWh. Among the generation, 18.34MWh was generated by TPC. The total capacity of facilities of the private coal power plants is 77.1GW, and the net power generation is 3.87 MWh. The capacity of the two generating sets in the Group's Ho-ping Power Plant is 1.32GW, and sales of electricity in 2018 was 8,559 KWh, or 22.12% of the private coal power plants, or 3.67% in Taiwan.

### Future supply and demand and future growth

With reference to the electricity statistics and the 2014 Long-Term Load Forecast and Electricity Sources Development Plan of BOE, domestic electricity consumption increased from 21.845 MWh in 2005 to 24.987 MWh in 2015. It is expected to grow to 33.564 MWh in 2033. As the average growth is 1.34% in the next 18 years, it needs to increase supply 0.48MWh of electricity a year on average to fulfill the demand for economic development and the daily life of the public. Regarding the development of power supply, the Government is promoting the "Two-year promotion program of solar photovoltaic" and

the "Four-year promotion program of wind-power," seeking to achieve the policy of realizing 20% of power generated by renewable energy in 2025, hoping to resolve electricity shortages in the energy transition period and bring Taiwan citizens are richer, more brilliant, and more comfortable life.

### Competitive niche, the favorable and unfavorable factors for future development, and countermeasures

- (1) Favorable factors
- ①Taiwan's economy continues to grow, electricity consumption increases constantly as

As Taiwan's economy continues to grow, electricity will consumption increase constantly. Due to the lack of water resources and the "nuclear-free homeland" policy, coal-fired generation will be the main source of electricity. With reference to the electricity statistics and the 2014 Long-Term Load Forecast and Electricity Sources Development Plan of BOE, domestic electricity consumption increased from 21.845 MWh in 2005 to 24.987 MWh in 2015, and it is expected to grow to 33.564 MWh in 2033. For the power supply, the capacity of power generating facilities is expected to grow to 503.5 GW in 2027 from 445.1 GW in 2018. It is expected that the retired capacities during 2019 to 2028 are 123.9 GW, and new capacities are 169.3 GW for the same time (based on the long-term development proposal of TPC in 2017). We the demand is still higher than the supply, this will favor TCC to continue electricity supply.

②Rise of environmental awareness of citizens

The rapid social changes in recent years have triggered social diversification. As the environmental awareness of the public rises, although power plants and the government have adopted a number of support measures to reduce the pollution caused to communities near power plants, nothing can ease the citizen's worries about the environmental problems of power plants.

As we have planned to replace the clay used in cement manufacture with the coal ash from fuel coal used by our coal-fired power plant right at the beginning of planning and design, we do not need to build ash ponds to fill the coal ash like other coal-fired power plants. In addition, the cement plant can directly supply the limestone required by the FGD facility of the power plant. Then, the gypsum produced by desulfurization can be used as the retarder of the cement plant, the whole process thus complies with the industry resource recycling and environmental requirements.

In air pollution and water pollution, apart from building 250m-tall flue stacks in our power plant to facilitate exhaust emissions, we have built the indoor coal storage to store and transport coal in a fully sealed conveyor system to eliminate fugitive coal dust pollution and foal water pollution.

Apart from minimizing pollution by implementing the above plans and building related facilities, we have hire consulting companies, academic institutions, and EPA-certified laboratories to implement environmental quality monitoring, near waters marine ecology survey, and plant stacks and effluent examinations either monthly or quarterly during plant operations to reinforce environmental protection and enhance mutual trust and relationship with local communities.

- (2) Unfavorable factors
- ① Limited suitable sites for renewable energy plants

The PV system requires a large area of land, and local resident will easily complain about the noise produced by onshore wind turbines. In addition, as Taiwan experiences

typhoon attacks frequently, suitable sites for renewable energy plants are limited.

Countermeasures

Developing renewable energy development in the idle land in industrial parks of the TCC, fish culture farms, and unusable farmland as a result of land subsidence or salination

to seeking the win-win results for all parties. The projects of the Group that are in production, under progress and planning are as the following:

- In production: Phase1 2MW solar energy power plant in Chang-Bin Industrial Zone
- Under progress:

©Phase 2 10.08MW solar energy power plant (under construction)

◎ Phase 1 7.2MW wind power plant already concluded a power-selling agreement with TPC, and the construction permit is pending; the Phase 2 14.4MW wind power plant is under the environmental impact assessment

©The 14.4MW wind power plant in Changhua already concluded a power-selling agreement with TPC, and the construction is outsourcing

©The new warehouse of CSRC in Kaohsiung (700KW) and the Phase 1 and 2 roof-top solar energy of E-One plant (336KW) are prepared for construction.

©The photovoltaic project in Yi-chu, Chiayi: under the review of the business plan for agricultural tolerance

© Taitung-Dadu Plant and the Linyuan Plant are outsourcing the construction of the photovoltaic project.

- Planning: the photovoltaic project in Yunlin
- 2 Global fuel price volatility

supply and demand, which will directly affect the operating expense and revenue of a coal-fired power plant.

Countermeasures

Through supply source diversification (e.g. Australia, Indonesia, and Russia) and procurement diversification (stock and long-term contract) to disperse the risk from coal price volatility and single source supply.

### 5.2.2 Important applications and manufacturing processes of major products

### 5.2.2.1 Cement sector

(1) Important applications of major products

| Major products   | Application   |
|--|---|
| Type I Cement  | Universally called the common cement. It is the major product produced by all cement manufacturers and consumed in Taiwan. Without the characteristics of other types of cement, it is suitable only for general construction and buildings.  |
| Type II Cement   | Also called the moderate-heat-hydration cement. It has more chemical restrictions than type I, slower hydration reaction, lower heat of hydration, and medium sulfate resistance. It is suitable for structures including reservoirs, dams, mass concrete, bays, piers, coastal buildings, artificial reefs, sewers, plant drainage, and flue stacks.                     |
| Type III Cement  | Generally called the high-early-strength cement. It is characterized by high early strength and suitable for the emergency rescue of buildings and highways to shorten construction time.   |
| Type V Cement  | Characterized by high sulfate resistance, a lower content of tricalcium aluminate (CA3) (max. 5%) than other types of cement, and the sum of C4AF and double CA3 below 25%, type V cement is suitable for use in areas with high sulfate in water or in soil, such as structures in bay, marine, tunnel, bridge, sewer, chemical plant, hot spring, and coastal projects. |
| Type I<br>low-heat-hydration<br>and low-alkaline<br>cement | This type of cement is manufactured to meet the demands of the Taiwan High Speed Rail, Taipei City MRT, and Kaohsiung MRT projects to prevent concrete cracking caused by high temperature of hydration and alkaline aggregate reaction with its low-heat-hydration and low-alkaline features to prolong the durability of structures.                                    |
| Types II and V<br>high-strength<br>cements                 | These types of cement are developed for exporting to the USA. They feature high sulfate resistance and even early and later strength.   |

(2) Manufacturing processes of major products

Limestone is the principle ingredient of cement. In our mining sites, we mine limestone with the safest and more environmental methods. First, limestones obtained from explosion are transported by trucks to the shaft for unloading. After crushing with crushers at the bottom of the shaft, crushed limestones are further transported to the secondary crushers via the conveyor belt for second crushing before sending to the ready-mix plant for mixing. Or, limestones obtained from explosion are transported by trucks to the aerial ropeway which forwards limestones to the stone warehouse at the mountain foot before conveying to the in-house ready-mix plant for mixing. Then, a stone bucket will take limestones of even quality from the ready-mix plant. Based on the precision mix design by the computer, limestones are mixed with clay, silica sand, slags, and raw meal and grinded into powder before delivering to the raw meal mixing plant for mixing before kilning to clinkers.

After extracting the raw meal mixing plant, the raw meal is weighed and fed in the pre-heater to heat up for deacidification

and decomposition. After kilning the raw meal into clinkers with a multi-stage rotary flow coal burner in the rotatory kiln, clinkers are air-cooled with a cooler before adding an appropriate quantity of retarder—gypsum and delivering to the cement grinder to grind clinkers into cement, which is then transported to the cement silo for delivery. To enhance productivity and cement quality, the entire production process is automated and computer operated. Lastly, cement is bagged with the automatic quantitative filling and packaging machine or delivered in bulk to the domestic or overseas markets.

### 5.2.2.2 Chemical engineering department

(1) Important applications of major products

| Major products      | Application  |
|---------------------|--|
| Phenol              | For producing BPA, phenol formaldehyde resin, cyclohexanone, phenol formaldehyde resin, 2-hydroxybenzoic, and nonyl phenol (NP). |
| Acetone             | For producing MMA, BPA, MIBK, and so on and use as a solvent.  |
| ВРА                 | Ingredient for producing epoxy, PC, flame retardants, UPRs, PSF, and so on.  |
| Cyclohexanone       | For producing CPL, hexanedioic acid, 2'-methylacetophenone, initiators, and so on and use as a solvent.                          |
| Maleic<br>anhydride | For producing UPRs, BDO, THF, and GBL.   |

- (2) Manufacturing processes of major products
- ①Isopropylbenzene plant: Catalyzing the alkylation and transalkylation of propane and benzene, to produce highly pure Isopropylbenzene
- ② Phenol/Acetone plant: Oxidize Isopropylbenzene to become cumene hydroperoxide by air, followed by catalytic cracking to produce products like phenol, acetone, and methylstyrene.
- ③ BPA plant: Phenol and acetone are catalytically condensed under acidic conditions to synthesize propylene glycol.
- ①Cyclohexanone plant: Through the addition reaction of phenol material and hydrogen, to produce cyclohexanone.
- ⑤ Maleic anhydride plant: use highly pure U-butaine to be oxidized for generating Maleic anhydride.

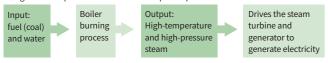
### 5.2.2.3 Electricity sector

(1) Important applications of major products

As the main product of the electricity sector, electricity is the mother of industries and the hand that rocks economic development. Electricity has a wide range of application, as it maintains the normal operation of daily life, industry, agriculture, and transportation.

(2) Manufacturing processes of major products

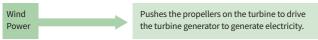
### The generation processes of a fossil fuel power plant:



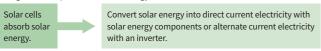
#### The generation processes of a geothermal power plant:



### The generation process of wind power



#### The generation process of solar energy



### 5.2.3 Supply of major ingredients

### 5.2.3.1 Cement sector

The main ingredients of cement production include limestone, clay, silica sand, slags, and gypsum, and coal ash is the auxiliary fuel. Limestones are obtained from self-production and import under long-term supply contracts. Clay and silica sand are obtained from domestic suppliers under long-term supply contracts. Gypsum, low-alkaline sand and iron sand are procured from credited suppliers at home and abroad. In Taiwan, coal is mainly imported from Australia and Russia with long-term or short-term contracts or stock tendering. Coal used by plants in mainland China is mainly procured locally.

All suppliers supply the ingredients at a price lower than the market indication price.

### 5.2.3.2 Chemical engineering sector

Major chemical products include benzene, propane, u-butaine, and isopropylbenzene. For benzene and propane, long-term supply contracts are signed with the domestic supplier, with a few overseas supplies. U-butaine is fully procured domestically with ong-term supply contracts. Isopropylbenzene is mainly produced on our own, and with a few overseas supplies from Japan and other countries.

### 5.2.3.3 Electricty sector

Coal, the main ingredient of the electricity sector, is mainly imported from Austria, Russia, and Indonesia with long-term or short-term supply contracts.

### 5.2.4 Major suppliers and customers in the past two years

Suppliers with a procurement amount 10% above the total procurement amount in the past two years

|      |   |            |      |   |                           |            |      |        |  |                                | (ехр | resseu iii N 13 tilousarius) |
|------|---|------------|------|---|---------------------------|------------|------|--------|--|--------------------------------|------|------------------------------|
|      | AY 2017   |            |      |   | AY 2018                   |            |      |        | By Q1 2019   |                                |      |                              |
| Item | Percentage in annual Relationship<br>net procurement amount with<br>Name Amount percentage Issuer |            | Name | Percentage in annual Relationship<br>net procurement amount with<br>Name Amount percentage Issuer |                           |            | Name | Amount | Percentage in annual<br>net procurement amount<br>percentage | Relationship<br>with<br>Issuer |      |                              |
| 1    | Company A   | 8,565,879  | 14%  | NA  | Company A                 | 8,330,746  | 12%  | NA     | Company A  | 8,330,746                      | 60%  | NA                           |
|      | Others  | 53,754,245 | 86%  | -   | Others                    | 62,849,711 | 88%  | -      | Others   | 5,455,718                      | 40%  | -                            |
|      | Net Procurement<br>Amount   | 62,320,124 | 100% | -   | Net Procurement<br>Amount | 71,180,457 | 100% | -      | Net Procurement<br>Amount                                    | 13,786,464                     | 100% | -                            |

Customers with a sales amount 10% above the total sales amount in the past two years

#### (expressed in NT\$ thousands

(eypressed in NT\$ thousands

|      | AY 2017             |            |  |                                |                     | AY 2018     |  |                                |                     | By Q1 2019 |  |                                |
|------|---------------------|------------|--|--------------------------------|---------------------|-------------|--|--------------------------------|---------------------|------------|--|--------------------------------|
| Item | Name                | Amount     | Percentage in annual<br>net sales amount<br>percentage | Relationship<br>with<br>Issuer | Name                | Amount      | Percentage in annual<br>net sales amount<br>percentage | Relationship<br>with<br>Issuer | Name                | Amount     | Percentage in annual<br>net sales amount<br>percentage | Relationship<br>with<br>Issuer |
| 1    | TPC                 | 10,950,099 | 11%  | NA                             | TPC                 | 13,827,292  | 11%  | NA                             | TPC                 | 3,208,250  | 13%  | NA                             |
|      | Others              | 87,361,677 | 89%  | -                              | Others              | 110,767,310 | 89%  | -                              | Others              | 22,148,078 | 87%  | -                              |
|      | Net Sales<br>Amount | 98,311,776 | 100%   | -                              | Net Sales<br>Amount | 124,594,602 | 100%   | -                              | Net Sales<br>Amount | 25,356,328 | 100%   | -                              |

### 5.2.5 Production volume and value in the past two years

### (expressed in sales value and NT\$ thousands)

| Year Annual                              |           | AY 2017  |             |           | AY 2018  |             |  |  |
|--|-----------|----------|-------------|-----------|----------|-------------|--|--|
| Value Products<br>Major Production       | Capacity  | Output   | Value       | Capacity  | Output   | Value       |  |  |
| Cement and Clinkers (thousand tonnes)    | 74,700    | 57,469   | 62,760,105  | 74,700    | 60,364   | 86,364,278  |  |  |
| Ready Mix Concrete (thousand m³)         | 12,006    | 4,338    | 7,596,066   | 12,654    | 4,763    | 8,212,993   |  |  |
| Chemicals (tonnes; Note 2)               | 1,420,019 | 863,892  | 26,922,555  | 1,420,019 | 931,013  | 28,422,222  |  |  |
| Electricity(Capacity: GW)<br>Output: GWh | 1,297.1   | 8,501.87 | 10,353,637  | 1,299.1   | 8,556.39 | 12,784,475  |  |  |
| Total                                    |           |          | 107,632,363 |           |          | 135,783,968 |  |  |

Note 1Capacity refers to the production quantity in normal operation of existing equipment after deducting required system downtime and holidays. Note 2: Isopropyl benzene, phenol, acetone, cyclohexanone, BPA, and maleic anhydride.

### 5.2.6 Sales volume and value in the past two years

(expressed in volume and NTS thousands

| YEAR                            |                    |          | A'         | Y 2017  |           |          | AY 2018     |         |            |  |
|---------------------------------|--------------------|----------|------------|---------|-----------|----------|-------------|---------|------------|--|
| Value Sales                     |                    | Domestic |            | Ex      | Export    |          | Domestic    |         | Export     |  |
| Major Products                  | Vo                 | olume    | Value      | Volume  | Value     | Volume   | Value       | Volume  | Value      |  |
| Cement and Clinkers (thousand t | connes) 5          | 55,333   | 59,808,272 | 1,673   | 1,867,519 | 54,707   | 78,345,796  | 1,495   | 1,854,214  |  |
| Ready Mix Concrete (thousand m  | ı <sup>3</sup> ) 4 | 4,487    | 7,860,745  | -       | -         | 4,958    | 8,551,625   | -       | -          |  |
| Chemicals (tonnes; Note 3)      | 20                 | 05,636   | 5,645,916  | 242,409 | 7,547,068 | 210,981  | 6,815,053   | 255,482 | 8,351,000  |  |
| Electricity (GWh)               |                    | ,501.87  | 10,353,637 | -       | -         | 8,556.39 | 12,784,465  | -       | -          |  |
| Total                           |                    |          | 83,668,570 |         | 9,414,587 |          | 106,496,939 |         | 10,205,214 |  |

Note 1: Domestic sales of cement and clinkers do not include consumption by own ready-mix concrete plants (771,000 tonnes in 2017, and 928,000 tonnes in 2018). Note 2The above data do not include the expression of transactions after offsetting with related partiers that should be included as consolidated entities. Note 3: Isopropylbenzene, phenol, acetone, cyclohexanone, BPA, and maleic anhydride

### 5.3 Profiles on employees in the past two years from the date of report publication

| ITEM                    | YEAR                     | AY 2017 | AY 2018 | By May 10, 2019 |  |
|-------------------------|--------------------------|---------|---------|-----------------|--|
| Total number of employe | ees                      | 9,356   | 9,993   | 10,066          |  |
| Average Age             |                          | 37.99   | 38.80   | 38.53           |  |
| Average Service Length  |                          | 6.02    | 6.28    | 6.19            |  |
| Education               | Doctorate                | 0.01%   | 0.04%   | 0.05%           |  |
| Distributions           | Master's Degree          | 1.21%   | 1.44%   | 1.33%           |  |
|                         | College and University   | 22.94%  | 24.89%  | 24.76%          |  |
|                         | Senior High School       | 39.19%  | 34.60%  | 36.00%          |  |
|                         | Below Senior High School | 36.65%  | 39.03%  | 37.86%          |  |

### expenditure

### 5.4.1 Cement section

The TCC environmental policy is: Build and implement an environmental management system; Enhance technology and improve processes; Conserve energy and prevent pollution; Beautify landscape and repay society.

(1) Certification and environmental participation

By development a well-established management system long ago, all TCC plants acquired ISO 9000 certification for the quality management system (QMS) within the shortest time in 1993 to keep pace with the global trend. All cement plants further acquired ISO 14001 certification for the environmental management system (EMS) from the BSMI. All three cement plants in Taiwan also acquired ISO 15001 certification for the energy management system (EnMS) on December 8, 12 and 15, 2014 respectively. Apart from ISO 9000 and ISO 14001, most TCC plants in mainland China have also acquired OHSAS 18000 certification for the Occupational Health and Safety Assessment

The efforts and involvement in environmental protection of our

**5.4 Information on environmental protection** cement plants have thus earned us a number of awards of excellence in environmental protection from government agencies such as the EPA since 1994. Aside from the Distinguished Award at the ROC Enterprises Environmental Protection Award for three consecutive years from 2000, the Hualien Plant was awarded the Excellence in Voluntary GHG Reduction Award by the Industrial Development Bureau (IDB), MOEA, om 2009 and 2014. The Suao Plant was also awarded the Industrial Sustainable Excellence Award by the MOEA in 2004 and the Excellence in Voluntary GHG Reduction Award by the IDB in 2009. The Hoping Plant was awarded the Excellence in Voluntary GHG Reduction Award by the IDB in 2007. TCC has implement the energy-saving and reduction of carbon since long, and strive for waste reduction and reuse of resources, with outstanding performances, the Company has won the Benchmark Enterprise Award for the Integration of Energy and Resources by the Industrial Development Bureau, MOEA in 2011; also in December 2018, the Ho-Ping Plant has been evaluated as the "two star grade for outstanding company in the evaluation of waste resources and circular economy" (the highest level) in the evaluation of waste resources and circular economy conducted by the Environmental Protection Administration, Executive Yuan.

The cement produced in the Suao Plant and the Ho-Ping Plant was also awarded with the certificate of environmental label for the cement products from the Environmental Protection Administration in January 2019. Furthermore, on August 25, 2014, the Environmental Protection Administration approved the early stage of greenhouse reduction project for 2000 to 2010, and the Company was granted for the reduction quota of 6,413,344 tonnes, or 71.01% of the reduction quota for the cement industry; apart from acquiring the validation and verification for voluntary emission reduction (VER) and awarded the verified carbon unit (VCU) in 2011 under the voluntary carbon standards (VCS, now voluntary verified standard) for using waste heat power generation, eight plants in China, including Yingde, Guigang, Jurong, Liaoning, Guangan, Anshun, Kaili, and Gangan have completed registration at the VCS platform of APX Inc.

In October 2001, we published the TCC Corporate Environmental Report with respect to the Sustainability Reporting Guidelines published in June 2000 by the Global Reporting Initiative (GRI) to explain our performance in organizational management, environmental performance, and social engagement, in order to share our entrepreneurial spirit in making continual improvement and innovation with the public. For the participation of sustainability activities, after winning five awards from the Taiwan Corporate Sustainability Awards (TCSA) in 2016 and 2017, TCC was again recognized by the TCSA again. In the Large Enterprise Group, TCC was ranked 17th, and won the single seven awards including Social Inclusion, Circular Economy Leadership, and Climate Leadership, among other awards. This is the best performance of TCC ever.

In membership of associations, currently we are a member of the Taiwan Cement Manufacturers' Association, the Taiwan Marble Association, the Chinese Institute of Mining & Metallurgical Engineers, Chinese National Federation of Industries, and Chinese National Association of Industry and Commerce, with which we exchange environmental information. We also communicate with the government and academic or research institutions through such associations or directly. Apart from sharing own knowhow, we gather the latest information from home and abroad for the reference of regulatory amendments by related authorities, in order to contribute to environmental protection and resource recycling.

(2) Investments in remediation

Adhering to the basic principle: One for All and All for One, we spare no effort to fulfill our responsibilities for the country and society. We have equipped the kilns #1 and #2 of the Hoping Plant completed in October 2000 and May 2001 with the low NOx pre-heating system, burning equipment, and waste heat power generation system to effectively inhibit pollutants from

the process to deliver better performance in energy conservation and waste reduction. In addition, we budgeting at a certain amount every year for equipment maintenance, performance improvement, and new facility installation, such as the multistage combustion new control equipment. Other than the accumulated NT\$ 10 billion investment to replace and add the environmental equipment, in 2018, we have planned to modify electrostatic precipitation into electric bag combined precipitation for the Hoping Plant and Suao Plant, whose procurement of equipment and the outsourcing of constructions were all completed, and expected to be done within this year. Besides controlling the emission of various air pollutants better than the increasingly stringent government standards, we aim to meet the highest European and US standards, order to optimize pollution control and prevention.

In recent years and by the date of report publication, the total losses (including compensation) and penalties if the cement sector was NT\$1,210,000.

(3) Foci of future environmental work

- ■Enhance equipment operation management, staff training, equipment maintenance and repair; and improve the precipitation system to ensure the normal operation of all environmental
- ■Enhance environmental cleaning and wastewater treatment and drainage control; implement strict control of the waste disposal procedure; and enhance outsourced contractor management, vehicle tire cleaning, and plant greening.
- ■Renew and purchase as necessary equipment for controlling air pollution and water pollution, such as modifying electrostatic precipitation into electric bag combined precipitation and procuring the chlorine bypass dust processing system for the Hoping Plant and Suao Plant, optimizing the SNCR equipment and procuring the multistage combustion system for the Hoping Plant in Taiwan; and procuring the multistage combustion of cement plants in China, and modifying electrostatic precipitation into electric bag combined precipitation for some kilns, in order to reduce environmental production.
- ■Environmental budget of the cement sector in the next three
- Taiwan: NT\$329,300,000 for 2019, NT\$91,260,000 for 2020, and NT\$95,820,000 for 2021; totaling NT\$516,380,000.
- ■China: CNY733,670,000 for 2019, CNY374,980,000 for 2020, and CNY207,760,000 for 2021; totaling CNY1,316,410,000 With such investments, we aim to achieve zero pollution.
- Continuously promote the integrated utilization of resources, to reduce the utilization of natural resources. Facilitate the electronic industry and the related industries, power plants, pulp and paper makers, water purifiers, waste incineration power plants, and steel mills to process their industrial wastes.

The efforts of TCC to the circular economy has won it the BS 8001 certificate; the type I Portland cement produced in the Ho-ping plant and Suao Plant has been awarded as the golden award environmental cement; the low alkaline type I Portland cement and type II Portland cement produced in the Suao Plant has been awarded as the silver award environmental cement. In the future, we will continue to extend to the optimization of quality, reduction of cement cost, expansion of the resources reuse, and collaborative process of domestic garbage and flying ash from waste incineration power plants by cement kilns. The project of cement kilns for collaborative processing of solid and hazardous waste in Guigang City, Guangxi Province, has passed the environmental assessment and will be constructed soon, to fulfill the correlate's responsibility of maximum use of waste and reduction of emission.

■ Continue the carbon capture and microalgae carbon fixation collaborative research project with the Industry Technology Research Institution (ITRI).

Under the collaborative project, ITRI built a polit plant with capture capacity at 1 tCO2e per hour and completed commissioning at the TCC Hoping Plant. As the world's largest carbon capture pilot plant, it realized the operation that used to be performed in laboratories or simulated on computers. In July 2014, the project won the 2014 R&D 100 Awards.

Also, the test and technology verification of the new-generation 500kWt Integrated Steam Hydration and Cascade Cyclone Carbon Capture System were initiated in April 2017 for the reference of planning the optimal 10MWt demo system. Currently, the following targets have been achieved: calcination efficiency above 80%, hydration conversion rate above 25%, and capture efficiency above 90%. In 2018, we have continued with the test of continuous operation and technology optimization of the 500kWt Integrated Steam Hydration and Cascade Cyclone Carbon Capture System; the development of the inactive limestone (absorbent) to high-purity precipitated calcium carbonate (PCC)recycling technology; and the design of the 10MW grade capture demo system. It is estimated that the technology verification and economic assessment of the new generation calcium looping system, The detailed design and planning of the 10MW demo system, and the equipment procurement specifications and EIA report will be completed in March 2019, hoping to strive toward the costs for reduction of carbon capture. The Calcium-Looping technology for CO2 capture has applied 26 patents under 13 items, and now 22 of them are granted and one is pending.

We initiated the Outdoor Microalgae Carbon Fixation System and High Unit Price Microalgae Culture Collaborative Research Project with ITRI in September 2012 and won the5th National Innovation Award and the 13th National Innovation Award.

In 2017 we completed the strategic research on promoting algae growth with bioactive substances, the analysis of the patent map of biological carbon fixation technology, and the verification of the feasibility of producing acid through continuous carbon fixation with anaerobic microorganisms. In January 2017, we signed the service contract on the Extraction Process and Application Development for Astaxanthin from Haematococcus pluvialis with the Biomedical Technology and Device Research Laboratories, ITRI, and the project is concluded at the end of 2018; we have preliminarily verified that the astaxanthin from Haematococcus pluvialis can relieve light induced retinal degeneration, protect AB induced nerve damage, and inhibit the LPS induced neuritis. On this basis, we have developed the skincare set, gift boxes of soba food. Through the products, we make the public feel the reduction of carbon, as the external communication. In 2019, with ITRI, TCC will continue the development of the high-efficiency growth mode of microalgae and the bionic applications, to enhance the production rate of carbon fixation microalgae ≥45g/m2/day (lab) and the discussion of the high-efficiency outdoor culture microalgae, in order to develop a reference for high-efficiency outdoor culture of carbon fixation microalgae.

■ Continue with soil and water conservation and greening of mineral mountains and support ecological conservation. Soil and water conservation and ecological conservation are our major concerns. Therefore, we began greening in the miningareas of each plant in 1991. Our outstanding achievements were awarded the greening achievement and afforestation achievement awards by the Council of Agriculture (COA). To further landscape maintenance and soil and water conservation, we have specifically invested NT\$3.75 billion in building three shafts in the Hoping Plant with the latest Peal Platform Multistage Mining Shaft Transportation method. The shaft is fully underground, automated, and environmental to significantly enhance environmental performance.

In platform mining, a 2-3m thick rock mass is retained on the side slope to prevent flooding from the peak. Besides greening the peak platform, we implemented the Residual Wall Greening and Reclamation Project at the Hoping Plant with the Dahan Institute of Technology in Hualien and the Mt. Taibai Mining Area Greening and Conservation Project at the Suao Plant with the National Ilan University through industry-academia partnership to accelerate environmental, ecological, scenery, and landscape maintenance and full conservation of the mined areas, in order to enhance the effectiveness of environmental protection and soil and water conservation.

Out of the love for homeland and nature, we practice environmental awareness in real action. From 1992, apart from sponsoring the production of ecological documentaries, including A Century of Taiwan Wild Birds, In Search of Summer Bird: Taiwanese Terns, Collared Bush Robin, World of Formosan Rock Macaque, and so on, we embarked on the ecological research of the black-faced spoonbill, a rare species in the world. By doing so, we hope to set an example to reawake the public, the business, and the government to realize the importance of ecological conservation to daily life quality, in order to implement ecological conservation across society. All documentaries have earned critical feedback from society.

### 5.4.2 Chemical engineering sector

Regarding the environmental protection, total expenditures in 2017 and 2018 were NT\$120 million. The focuses were on the renovation of boilers, and replacing fuel with natural gas. The project was completed in February 2019. The reduction of CO2 emission is 32,000 tonnes, zero emission for sulphur oxides, and the reduction of nitrogen oxides emission is 140 tonnes. In March 2019, the ISO45001 Occupational Health and Safety Management System Certificated has been obtained. The projects in progress for 2019 including the coating of ceramic resin on the pump impellers, and introduction of energy-saving fans and lights. It is expected to save the power for at least 1.7 MW. In recent years and by the date of report publication, the total losses (including compensation) and penalties of the chemical engineering sector was NT\$2,820,000

### 5.4.3 Electricity sector

(1)In recent years and by the date of report publication, the total amount of losses (including compensation) and penalties for pollution was:

Other than the fine of NT\$440 million by the Environmental Protection Bureau due to the overuse of coal to accommodate the power allocation in 2009 and 2010, there has been no pollution. Currently, the annual coal use is controlled to under 3.44 million tonnes, and no more oversue.

(2) Explanation of the measures (including corrective measures) and possible disbursements to be made in the future (including an estimate of losses, fines, and compensation resulting from any failure to adopt responsive measures, or if it is not possible to provide such an estimate, an explanation of the reason why it is not possible).

#### Countermeasures

To continuously implement the improvement of environmental protection, apart from maintaining the normal operation of the pollution prevention equipment, we have hired professional consulting companies, academic institutions, and EPA-certified laboratories to implement environmental quality monitoring, near waters marine ecology survey, and plant stacks and effluent examinations either monthly or quarterly during plant operations. It is estimated that the environmental expenditure in the next three years will be about NT\$400 million.

The environmental and remediation expenditure for the coal-fired power plant include:

- Construction of an indoor coal storage to store and transport coal in a fully sealed conveyor system to eliminate fugitive coal dust pollution and foal water pollution.
- Fully sealed transportation of all materials and by-products to prevent pollution.
- Recycling coal ash from the power plant into ingredients of cement manufacture or additives of cement productsin Ho-Ping Cement Plant in the neighborhood, without the need to disposal in the ash pond or sea to prevent marine pollution.
- Installation of the electrostatic precipitator, wet limestone/gypsum FGD equipment, and selective catalyst reduction equipment, to reduce PM intensity to below 20mg/m2 (regulatory standard: 20mg/m2), SOx intensity to below 50 ppm (regulatory standard 60 ppm), NOx intensity to 50 ppm (regulatory standard 70 ppm), and installation of 250m-tall flue stacks to facilitate dispersion.
- Warm water drainage, noise control, and wastewater treatment are controlled strictly to meet the latest national environmental standards.

### 5.5 Labor-management relations

Benefits offered by TCC and the Employee Welfare Committee (EWC) include: National Health Insurance, Labor Insurance, group insurance, EWC savings trust, medial allowance for employees and dependents, education scholarships for children, further education allowance, health examination allowance, travel allowance, marriage cash gift, birth allowance, funeral allowance for employees and dependents, cash gifts for four folk festival, and birthday cash gift.

To develop employees to fulfill the work requirements and enhance work efficiency, we organize education and training activities with respect to the Education and Training Implementation Regulations. These activities include management and professional competence development courses or external training at other training institutions and schools. In 2018, we organized 118,650 hours of education and training, with a total expense of NT\$ 28,934,229

Apart from establishing the Pension Reserve Supervisory Committee (PRSC) and contributing periodically pensions to the Bank of Taiwan Co., Ltd. (formerly Central Trust Bureau) by law, we hold regular committee meetings to audit pension contribution and utilization, in order to protect the rights and interests of employees. In addition, for employees selecting the pension system under the Labor Pension Act, we contribute pension to the employee's personal account at the Bureau of Labor Insurance every month to maintain the rights and interests of employees.

For AY 2018 and up to the date of report publication, no significant loss from labor-management disputes has been reported.

### **5.6 Important contracts**

| Type of Contract  | Client  | Contract Term  | Description  | Limitations   |
|---|---|--|--|---|
| New cement carrier contract                                 | CARDINAL MARITIME S.A.  | Delivered in November 2015   | New cement carrier contract  | Payment as scheduled  |
| New cement carrier loading/<br>unloading equipment contract | SUPERO SEIKI CO., LTD.  | Delivered in November 2013   | New cement carrier loading/unloading equipment contract                                    | Payment as scheduled  |
| New bulk carrier contract                                   | SUMITOMO CORPORATION  | Delivered in December 2015   | New bulk carrier contract  | Payment as scheduled  |
| Power procurement contract                                  | Taiwan Power Company  | August 4, 1998 to June 29, 2027  | Electricity purchase and sales   | No significant limitation terms   |
| Power plant long-term service contract                      | GE Power  | July 1, 2008 to June 30, 2020  | Power plant maintenance and repair services  | No significant limitation terms   |
| Coal procurement  | Pt. Indominco<br>Yancoal<br>Glencore  | January 1, 2005 to December 31, 2020<br>February 1, 2018 to December 31, 2020<br>April 1, 2018 to May 30, 2019   | Coal procurement   | No significant limitation terms   |
| Fuel coal transportation contract                           | NYK<br>Bocimar<br>Norden  | April 1, 2011 to March 31, 2023<br>April 1, 2011 to March 31, 2026<br>April 1, 2011 to March 31, 2026  | Fuel coal transportation   | No significant limitation terms   |
| Syndication loan agreement                                  | Bank of Taiwan as Agent Bank<br>with the other ten banks as lenders   | February 11, 2014 to February 11, 2019   | Financing the operation of power plants  | Maintenance of a steady financial ratio.  |
| Insurance policy  | Property insurers including Cathay Century, Shin Kong, Fubon, South China, First Insurance, Tokio Marine Newa, Chung Kuo Insurance, Union Insurance, and Nan Shan General Insurance   | December 31, 2018 to December 31, 2019   | Power plant assets and operations insurance  | No significant limitation terms   |
| Hoping Plant Maintenance and Repair Service Contract        | Taiwan Power Company  | January 30, 2014 to February 22, 2019  | Overhaul and inspection/repair of generation sets  | No significant limitation terms   |
| Syndication loan agreement                                  | Mega International Commercial Bank as Agent Bank with the other banks as lenders<br>Hwa Nan Commercial Bank as Agent Bank with the other banks as lenders<br>Mega International Commercial Bank as Agent Bank with the other banks as lenders<br>Mega International Commercial Bank as Agent Bank with the other banks as lenders<br>China Trust Commercial Bank as Agent Bank with the other banks as lenders<br>China Trust Commercial Bank as Agent Bank with the other banks as lenders | March 2, 2015 to March 2, 2020<br>September 22, 2016 to September 22, 2021<br>September 16, 2014 to September 16, 2019<br>March 8, 2018 to March 8, 2023<br>November 16, 2018 to November 16, 2023<br>December 7, 2018 to December 7, 2025 | Five-year term Five-year term Five-year term Five-year term Five-year term Seven-year term | Maintenance of a steady financial ratio. |
| PURCHASE AGREEMENT  | JP Morgan Securities plc  | November 26, 2018 to November 26, 2023   | Subscription Agreement for Overseas Convertible Corporate Bonds                            | NA  |
| Indenture   | CITICORP INTERNATIONAL LIMITED  | December 10, 2018 to December 10, 2023   | Agreement for Trustee of Overseas Convertible Corporate Bonds                              | NA  |
| Sublicense Agreement  | Compagnia Tecnica<br>Internazionale<br>Progetti S.P.A   | Commencing on August 8, 1994, without and ending date.   | Cyclohexanone Process Patent   | Confidentiality Term<br>Permanent   |
| EM-5100 Catalyst and EM-5510<br>Catalyst Lease Agreement    | ExxonMobil Catalyst Technologies LIC  | August 1, 2004 to August 1, 2019   | Placement fees and periodic fees   | NA  |
| Cumene Process And<br>Technology License Agreement          | Badger Licensing LLC  | October 22, 2004 to October 21, 2019   | Isopropylbenzene and zeolite catalyst process patent                                       | The confidentiality term is permanently effective.  |
| License and Basic<br>Engineering Agreement                  | Huntsman Petrochemical Corporation  | Commencing on December 4, 2006, without the ending date  | Maleic anhydride process patent  | The confidentiality term is permanently effective.  |
| Raw material procurement                                    | CPC Taiwan China Steel Chemical Formosa Petrochemical Corporation   | January 1, 2019 to December 31, 2019<br>January 1, 2019 to December 31, 2019<br>January 1, 2019 to December 31, 2019   | Benzene, acetone and hydrogen gas procurement Purchase of benzene Purchase of U-butaine    | Non-transferrable<br>NA<br>Not for energy, no resale  |
| Agreement of building new wind-power generators             | Vestas Asia Pacific A/S   | March 15, 2019 to delivery   | Agreement of building new wind-power generators  | Payment as scheduled  |

### 2. Condensed Consolidated Statements of Comprehensive Income

(expressed in NT\$ thousands, except for EPS expressed in NT\$)

| 5.1 Condensed statements of financial positions and statements of comprehensive income of the |
|---|
| past five years   |

### 1. Condensed consolidated statements of financial positions

(expressed in NT\$ thousands)

|  |                   |             |             |                                |             | (exp        | ressed in NT\$ thousand  |
|--|-------------------|-------------|-------------|--------------------------------|-------------|-------------|--------------------------|
|  | Year              |             |             | By March 31,<br>2019 Financial |             |             |                          |
| Item                                     |                   | 2018        | 2017        | 2016                           | 2015        | 2014        | Information <sup>3</sup> |
| Current assets                           |                   | 110,380,695 | 92,719,914  | 77,884,012                     | 90,593,376  | 96,605,816  | 120,649,402              |
| Property, plant and                      | equipment         | 91,093,825  | 94,709,404  | 101,799,766                    | 113,310,134 | 108,445,563 | 91,816,496               |
| Intangible assets                        |                   | 20,427,352  | 20,852,624  | 21,175,282                     | 22,607,552  | 19,542,637  | 20,698,252               |
| Other assets                             |                   | 122,183,246 | 64,275,107  | 66,129,636                     | 66,555,293  | 68,149,816  | 132,360,881              |
| Total assets                             |                   | 344,085,118 | 272,557,049 | 266,988,696                    | 293,066,355 | 292,743,832 | 365,525,031              |
| Current liabilities                      | Before allocation | 64,503,844  | 65,192,960  | 55,104,919                     | 68,083,832  | 68,632,044  | 76,865,453               |
|  | After allocation  | Note 2      | 71,553,724  | 60,458,574                     | 72,994,426  | 77,825,562  | NA                       |
| Non-current liabiliti                    | es                | 82,201,818  | 54,716,873  | 64,487,106                     | 69,498,271  | 62,094,107  | 78,503,617               |
| Total liabilities                        | Before allocation | 146,705,662 | 119,909,833 | 119,592,025                    | 137,582,103 | 130,726,151 | 155,369,070              |
|  | After allocation  | Note 2      | 126,270,597 | 124,945,680                    | 142,492,697 | 139,919,669 | NA                       |
| Equity attributed to owners of the paren | t company         | 181,541,510 | 136,348,204 | 106,768,051                    | 108,042,985 | 117,958,870 | 194,131,739              |
| Share capital                            |                   | 53,080,599  | 42,465,090  | 36,921,759                     | 36,921,759  | 36,921,759  | 53,080,599               |
| Capital Surplus                          |                   | 47,836,241  | 25,739,065  | 13,534,162                     | 12,309,615  | 12,225,528  | 47,956,296               |
| Retained earnings                        | Before allocation | 61,588,761  | 49,019,510  | 47,337,524                     | 45,573,057  | 49,530,227  | 65,540,562               |
|  | After allocation  | Note 2      | 38,418,237  | 41,983,869                     | 40,662,463  | 40,336,709  | NA                       |
| Other equity                             |                   | 19,038,454  | 19,124,539  | 8,974,606                      | 13,238,554  | 19,281,356  | 27,556,827               |
| Treasury stock                           |                   | (2,545)     | -           | -                              | -           | -           | (2,545)                  |
| Non-control equity                       |                   | 15,837,946  | 16,299,012  | 40,628,620                     | 47,441,267  | 44,058,811  | 16,024,222               |
| Total equity                             | Before allocation | 197,379,456 | 152,647,216 | 147,396,671                    | 155,484,252 | 162,017,681 | 210,155,961              |
|  | After allocation  | Note 2      | 146,286,452 | 142,043,016                    | 150,573,658 | 152,824,163 | NA                       |

 $<sup>^2\</sup>mbox{The proposal on 2018 profit distribution is pending for resolution by the AGM.$ 

| Year   |             |            | Financial Informati | By March 31,<br>2019 Financial |             |                          |
|--|-------------|------------|---------------------|--------------------------------|-------------|--------------------------|
| Item   | 2018        | 2017       | 2016                | 2015                           | 2014        | Information <sup>3</sup> |
| Revenue  | 124,594,602 | 98,311,776 | 89,564,306          | 93,679,076                     | 118,325,809 | 25,356,328               |
| Gross profit   | 33,591,539  | 18,912,914 | 17,981,004          | 14,528,017                     | 24,872,595  | 6,487,864                |
| Profit (loss) from operations  | 28,180,901  | 13,962,885 | 13,034,136          | 9,673,699                      | 19,857,669  | 5,032,962                |
| Non-operating income and expenses                                    | 2,363,520   | (138,226)  | (1,518,801)         | (1,007,684)                    | 1,341,051   | 570,533                  |
| Profit before income tax   | 30,544,421  | 13,824,659 | 11,515,335          | 8,666,015                      | 21,198,720  | 5,603,495                |
| Profit from continuing operations Net profit                         | 22,644,071  | 10,322,800 | 8,842,075           | 6,925,626                      | 16,583,876  | 4,229,970                |
| Loss of discontinued operations                                      | -           | -          | -                   | -                              | -           | -                        |
| Net profit   | 22,644,071  | 10,322,800 | 8,842,075           | 6,925,626                      | 16,583,876  | 4,229,970                |
| Other comprehensive income (loss) (net of income tax                 | (2,936,676) | 9,976,772  | (6,987,714)         | (7,518,044)                    | 3,225,651   | 8,600,127                |
| Total comprehensive income   | 19,707,395  | 20,299,572 | 1,854,361           | (592,418)                      | 19,809,527  | 12,830,097               |
| Net profit attributed to the owner of parent company                 | 21,180,821  | 7,594,247  | 6,358,452           | 5,775,989                      | 10,828,868  | 3,951,920                |
| Net profit attributed to non-control equity                          | 1,463,250   | 2,728,553  | 2,483,623           | 1,149,637                      | 5,755,008   | 278,050                  |
| Total comprehensive income attributed to the owner of parent company | 18,245,179  | 17,775,812 | 2,411,113           | (806,454)                      | 13,340,699  | 12,470,174               |
| Total comprehensive income attributed to non-control equity          | 1,462,216   | 2,523,760  | (556,752)           | 214,036                        | 6,468,828   | 359,923                  |
| EPS <sup>2</sup>   | 4.37        | 1.82       | 1.56                | 1.42                           | 2.67        | 0.77                     |

<sup>&</sup>lt;sup>1</sup>The financial information has been audited by CPAs.

<sup>&</sup>lt;sup>3</sup>The financial information has been reviewed by CPAs.

<sup>&</sup>lt;sup>2</sup>Calculated based on the outstanding weighted average of shares for each year. Retrospective adjustment of earnings per share for the previous year due to stock dividends.

<sup>&</sup>lt;sup>3</sup>The financial information has been audited by CPAs.

### 3. Condensed Individual balance sheets

(expressed in NT\$ thousands)

| Year                          |                   | Financial Information Over the Past Five Years <sup>1</sup> |             |             |             |             |  |  |  |
|-------------------------------|-------------------|---|-------------|-------------|-------------|-------------|--|--|--|
| Item                          |                   | 2018  | 2017        | 2016        | 2015        | 2014        |  |  |  |
| Current assets                |                   | 21,170,918  | 9,912,028   | 8,006,764   | 8,697,661   | 8,916,096   |  |  |  |
| Property, plant and equipment |                   | 27,007,306  | 27,577,177  | 28,064,674  | 28,635,070  | 29,491,105  |  |  |  |
| Intangible assets             |                   | 10,711  | 21,394      | 69,359      | 105,600     | 142,153     |  |  |  |
| Other assets                  |                   | 215,271,048   | 125,178,129 | 96,318,761  | 98,246,219  | 104,571,268 |  |  |  |
| Total assets                  |                   | 263,459,983   | 162,688,728 | 132,459,558 | 135,684,550 | 143,120,622 |  |  |  |
| Current liabilities           | Before allocation | 18,483,895  | 20,929,218  | 13,036,677  | 11,719,056  | 5,616,776   |  |  |  |
|                               | After allocation  | Note 2  | 27,289,982  | 18,390,332  | 16,629,650  | 14,810,294  |  |  |  |
| Non-current liabilitie        | S                 | 63,434,578  | 5,411,306   | 12,654,830  | 15,922,509  | 19,544,976  |  |  |  |
| Total liabilities             | Before allocation | 81,918,473  | 26,340,524  | 25,691,507  | 27,641,565  | 25,161,752  |  |  |  |
|                               | After allocation  | Note 2  | 32,701,288  | 31,045,162  | 32,552,159  | 34,355,270  |  |  |  |
| Share capital                 |                   | 53,080,599  | 42,465,090  | 36,921,759  | 36,921,759  | 36,921,759  |  |  |  |
| Capital Surplus               |                   | 47,836,241  | 25,739,065  | 13,534,162  | 12,309,615  | 12,225,528  |  |  |  |
| Retained earnings             | Before allocation | 61,588,761  | 49,019,510  | 47,337,524  | 45,573,057  | 49,530,227  |  |  |  |
|                               | After allocation  | Note 2  | 38,418,237  | 41,983,869  | 40,662,463  | 40,336,709  |  |  |  |
| Other equity                  |                   | 19,038,454  | 19,124,539  | 8,974,606   | 13,238,554  | 19,281,356  |  |  |  |
| Treasury stock                |                   | (2,545)   | -           | -           | -           | -           |  |  |  |
| Total equity                  | Before allocation | 181,541,510   | 136,348,204 | 106,768,051 | 108,042,985 | 117,958,870 |  |  |  |
|                               | After allocation  | Note2   | 129,987,440 | 101,414,396 | 103,132,391 | 108,765,352 |  |  |  |

 $<sup>{\</sup>ensuremath{^{1}}}\xspace$  The financial information has been audited by CPAs.

### 4. Condensed Individual Statements of Comprehensive Income

(expressed in NT\$ thousands, except for EPS expressed in NT\$)

| Year  | Financial Information Over the Past Five Years <sup>1</sup> |            |             |             |            |  |  |  |  |
|---|---|------------|-------------|-------------|------------|--|--|--|--|
| Item  | 2018  | 2017       | 2016        | 2015        | 2014       |  |  |  |  |
| Revenue   | 17,057,945  | 16,215,877 | 17,218,999  | 20,567,560  | 21,504,150 |  |  |  |  |
| Gross profit  | 1,378,936   | 1,715,225  | 2,138,762   | 2,223,512   | 1,656,219  |  |  |  |  |
| Profit (loss) from operations                         | 192,868   | 895,292    | 1,275,775   | 1,473,255   | 678,272    |  |  |  |  |
| Non-operating income and expenses                     | 21,067,007  | 6,908,006  | 5,259,947   | 4,461,334   | 10,353,976 |  |  |  |  |
| Profit before income tax                              | 21,259,875  | 7,803,298  | 6,535,722   | 5,934,589   | 11,032,248 |  |  |  |  |
| Profit from continuing operations                     | 21,180,821  | 7,594,247  | 6,358,452   | 5,775,989   | 10,828,868 |  |  |  |  |
| Loss of discontinued operations                       | -   | -          | -           | -           | -          |  |  |  |  |
| Net profit  | 21,180,821  | 7,594,247  | 6,358,452   | 5,775,989   | 10,828,868 |  |  |  |  |
| Other comprehensive income (loss) (net of income tax) | (2,935,642)   | 10,181,565 | (3,947,339) | (6,582,443) | 2,511,831  |  |  |  |  |
| Total comprehensive income                            | 18,245,179  | 17,775,812 | 2,411,113   | (806,454)   | 13,340,699 |  |  |  |  |
| EPS <sup>2</sup>                                      | 4.37  | 1.82       | 1.56        | 1.42        | 2.67       |  |  |  |  |

<sup>&</sup>lt;sup>1</sup>The financial information has been audited by CPAs.

### 5.Independent auditors' names and their audit opinions for the past five years:

(1) Names of CPAs in the past five years:

| Year | Name of CPA                     | Opinion of Audit    |
|------|---------------------------------|---------------------|
| 2018 | Ya-ling Wong and Chih-Ming Shao | Unqualified Opinion |
| 2017 | Ya-ling Wong and Chih-Ming Shao | Unqualified Opinion |
| 2016 | Ya-ling Wong and Chih-Ming Shao | Unqualified Opinion |
| 2015 | Ya-ling Wong and Mei-hui Wu     | Unqualified Opinion |
| 2014 | Ya-ling Wong and Mei-hui Wu     | Unqualified Opinion |

<sup>(2)</sup> CPA changed in 2016 in coordination to the job rotation of the CPA firm.

<sup>&</sup>lt;sup>2</sup>The proposal on 2018 profit distribution is pending for resolution by the AGM.

<sup>&</sup>lt;sup>2</sup>Calculated based on the outstanding weighted average of shares for each year. Retrospective adjustment of earnings per share for the previous year due to stock dividends.

<sup>(3)</sup> Deloitte & Touche Taipei, Taiwan Republic of China 20F, Taipei Nan Shan Plaza No.100, Songren Rd. Xinyi Dist. Taipei 11073, Taiwan TEL:2725-9988: (Rep.)

### 6.2 Important financial ratio analysis

### 1. Consolidated financial ratio analysis

|                  | Year   |        | Financial An | alysis for the F | Past Five Years <sup>1</sup> |        | By   |
|------------------|--|--------|--------------|------------------|------------------------------|--------|--|
| Subject          |  | 2018   | 2017         | 2016             | 2015                         | 2014   | March 31, 2019<br>Financial Information <sup>2</sup> |
| Financial        | Liabilities to assets ratio                                  | 42.64  | 43.99        | 44.79            | 46.95                        | 44.66  | 42.51  |
| structure<br>(%) | Long-term capital to property, plant and equipment ratio     | 306.92 | 218.95       | 208.14           | 198.55                       | 206.66 | 314.39   |
| Solvency         | Current ratio (%)  | 171.12 | 142.22       | 141.34           | 133.06                       | 140.76 | 156.96   |
|                  | Quick ratio (%)  | 155.85 | 128.72       | 124.52           | 119.28                       | 124.35 | 142.97   |
|                  | Times interest earned (times)                                | 14.16  | 8.92         | 7.58             | 6.07                         | 13.11  | 12.24  |
| Operation        | Accounts receivable turnover (times)                         | 3.80   | 4.16         | 4.46             | 4.01                         | 4.54   | 2.73   |
|                  | Average days of cash receipts                                | 96.05  | 87.74        | 81.83            | 91.02                        | 80.39  | 133.7  |
|                  | Inventory turnover (times)                                   | 10.21  | 9.21         | 8.03             | 8.15                         | 9.29   | 7.72   |
|                  | Accounts payable turnover (times)                            | 11.67  | 10.27        | 9.70             | 11.03                        | 11.91  | 9.64   |
|                  | Average daily sales  | 35.74  | 39.63        | 45.45            | 44.79                        | 39.28  | 47.27  |
|                  | Property, plant and equipment turnover (times)               | 1.34   | 1.00         | 0.83             | 0.84                         | 1.09   | 1.11   |
|                  | Total assets turnover (times)                                | 0.40   | 0.36         | 0.32             | 0.32                         | 0.41   | 0.29   |
| Profitability    | Return on assets (%) (ROA)                                   | 7.95   | 4.36         | 3.68             | 2.85                         | 6.27   | 1.3  |
|                  | Return on equity (%) (ROE)                                   | 12.94  | 6.88         | 5.84             | 4.36                         | 10.51  | 2.08   |
|                  | Net income before tax as a percentage of paid-in capital (%) | 57.54  | 32.56        | 31.19            | 23.47                        | 57.42  | 10.56  |
|                  | Net profit rate (%)  | 18.17  | 10.50        | 9.87             | 7.39                         | 14.02  | 16.68  |
|                  | EPS (NT\$) <sup>3</sup>                                      | 4.37   | 1.82         | 1.56             | 1.42                         | 2.67   | 0.77   |
| Cash flow        | Cash flow ratio (%)  | 34.34  | 18.88        | 34.03            | 31.97                        | 29.12  | 6.37   |
|                  | Cash flow adequacy ratio (%)                                 | 80.90  | 116.16       | 124.56           | 109.73                       | 104.69 | 78.43  |
|                  | Cash reinvestment ratio (%)                                  | 3.68   | 1.57         | 3.87             | 3.19                         | 2.85   | 1.28   |
| Leverage         | Operation leverage   | 1.42   | 1.82         | 1.92             | 2.27                         | 1.59   | 1.64   |
|                  | Financial leverage   | 1.09   | 1.14         | 1.15             | 1.21                         | 1.10   | 1.11   |

<sup>1.</sup>Increase in capital to PP&E ratio: It is mainly because of the increase in long-term borrowing and net equity amount.

### 2. Analysis of individual financial ratio

|               | Year   | Financia | al Analysis for the | Past Five Years <sup>1</sup> |        |        |
|---------------|--|----------|---------------------|------------------------------|--------|--------|
| Subject       |  | 2018     | 2017                | 2016                         | 2015   | 2014   |
| Financial     | Liabilities to assets ratio                                  | 31.09    | 16.19               | 19.40                        | 20.37  | 17.58  |
| structure(%)  | Long-term capital to property,                               | 907.07   | 514.05              | 425.53                       | 432.91 | 466.26 |
|               | plant and equipment ratio                                    |          |                     |                              |        |        |
| Solvency      | Current ratio (%)  | 114.54   | 47.36               | 61.42                        | 74.22  | 158.74 |
|               | Quick ratio (%)  | 106.96   | 39.33               | 49.71                        | 60.02  | 132.12 |
|               | Times interest earned (times)                                | 47.29    | 39.30               | 28.49                        | 25.85  | 50.67  |
| Operation     | Accounts receivable turnover (times)                         | 4.27     | 4.44                | 4.36                         | 4.67   | 4.69   |
|               | Average days of cash receipts                                | 85.48    | 82.20               | 83.71                        | 78.15  | 77.82  |
|               | Inventory turnover (times)                                   | 10.29    | 9.22                | 9.71                         | 11.79  | 14.71  |
|               | Accounts payable turnover (times)                            | 8.99     | 8.87                | 9.36                         | 11.59  | 12.67  |
|               | Average daily sales  | 35.47    | 39.58               | 37.59                        | 30.95  | 24.81  |
|               | Property, plant and equipment                                | 0.62     | 0.58                | 0.61                         | 0.71   | 0.72   |
|               | turnover (times)   |          |                     |                              |        |        |
|               | Total assets turnover (times)                                | 0.08     | 0.11                | 0.13                         | 0.15   | 0.15   |
| Profitability | Return on assets (%) (ROA)                                   | 10.11    | 5.26                | 4.89                         | 4.29   | 7.89   |
|               | Return on equity (%) (ROE)                                   | 13.33    | 6.25                | 5.92                         | 5.11   | 9.37   |
|               | Net income before tax as a percentage of paid-in capital (%) | 40.05    | 18.38               | 17.70                        | 16.07  | 29.88  |
|               | Net profit rate (%)  | 124.74   | 46.83               | 36.93                        | 28.08  | 50.36  |
|               | EPS (NT\$) <sup>2</sup>                                      | 4.37     | 1.82                | 1.56                         | 1.42   | 2.67   |
| Cash flow     | Cash flow ratio (%)  | 4.45     | 4.27                | 19.41                        | 20.14  | 21.59  |
|               | Cash flow adequacy ratio (%)                                 | 7.17     | 19.49               | 24.75                        | 34.74  | 52.25  |
|               | Cash reinvestment ratio (%)                                  | (2.01)   | (2.53)              | (1.55)                       | (4.34) | (4.26) |
| Leverage      | Operation leverage   | 9.89     | 2.56                | 2.24                         | 2.14   | 3.84   |
|               | Financial leverage   | 0.72     | 1.29                | 1.23                         | 1.19   | 1.49   |

<sup>1.</sup> Increase in liabilities to assets ratio: It is mainly because of the fuundraising instruments, e.g. issuance of the corporate bonds and long-term bills payables.

#### <sup>1</sup>The financial information has been audited by CPAs.

Note: The equations for calculation in financial analysis.

(1) Financial structure

1)Liabilities to assets ratio = Total liabilities/ Total assets

2)Long-term capital to PP&E ratio = (Gross shareholder's equity + Non-current liabilities) / Net PP&E (2) Solvency

1)Current ratio = Current assets / Current liabilities

2)Quick ratio = (Current assets - Inventory - Prepayments) / Current liabilities

3)Times interest earned=EBIT / Interest expense for current period.

(3) Operation

1)Account receivable (including account receivable and note receivable from operation) turnover = Net revenue

/ Balance of average account receivable (including account receivable and note receivable from operation).

2)Average daily receivables=365 / Account receivable turnover

3)Inventory turnover= Cost of goods sold / Average inventory

4)Account payable (including account payable and note payable from operation) turnover = Cost of goods sold / Balance of average account payable (including account payable and note payable from operation).

5)Average daily sales = 365 / Inventory turnover

6)PP&E turnover = Net revenue / Average Net PP&E.

7)Total assets turnover = Net revenue / Average total assets.

### <sup>2</sup>Retrospective adjustment of earnings per share for the previous year due to stock dividends.

(4) Profitability

1)ROA = [Profit(loss) after tax + Interest expenses x (1-tax rate)] / Average total assets.

2)ROE = Profit(Loss) after tax / Average equity 3)Net profit rate = Profit(Loss) after tax / Net revenue

4)EPS = (Net profit attributable to owners of the parent – dividend from preferred

shares) / Weighted average number of outstanding shares

(5) Cash flow

1)Cash flow ratio=Net cash flow from operating activities / Current liabilities

2)Cash flow adequacy ratio=Net cash flow from operating activities for the past five years/(Capital expenditure+Increases in inventory+Cash dividends) over the past five years.

3)Cash reinvestment ratio=(Net cash flow from operating activities-Cash dividends)/(-Gross PP&E+Long-term investments+ Other non-current assets + Working capital)

(6) Leverage1)Operation leverage = (Net revenue-Variable cost and expenses from operation)/Opating profit

2)Financial leverage=Operating profit/(Operating profit-interest expenses)

<sup>2.</sup> Increase in the current ratio and quick ratio: It is mainly because of the increase in cash and cash equivalents in 2018.

<sup>3.</sup>Increase in PP&E turnover rate: It is mainly because of the increase in net sales in 2018.

<sup>4.</sup>Increase in the times interest earned, ROA, ROE and Net income before tax as a percentage of paid-in capital, Net profit rate and EPS: It is mainly because of the profit increase in 2018.

<sup>5.</sup> Increase in the cash flow ratio: It is mainly because of the increase in the net cash generated from operating activities of 2018.

<sup>6.</sup>Decrease in the cash flow adequacy ratio: It is mainly because of the increase in long-term investments in 2018.

<sup>7.</sup> Increase in the cash reinvestment ratio: It is mainly because of the increase in the net cash generated from operating activities of 2018.

<sup>8.</sup>Decrease in the operation leverage: It is mainly because of the increase of the profit from operations in 2018.

 $<sup>{}^{\</sup>scriptscriptstyle 1}\!\mathsf{The}$  financial information has been audited by CPAs.

<sup>&</sup>lt;sup>2</sup>Financial data have been reviewed and certified by CPAs.

<sup>&</sup>lt;sup>3</sup>Retrospective adjustment of earnings per share for the previous year due to stock dividends.

 $<sup>2.</sup> Increase \ in \ capital \ to \ PP\&E \ ratio: \ It \ is \ mainly \ because \ of \ the \ increase \ in \ long-term \ borrowing \ and \ net \ equity \ amount.$ 

<sup>3.</sup>Increase in the current ratio and quick ratio: It is mainly because of the increase in cash and cash equivalents in 2018.

<sup>4.</sup>Total asset turnover rate decreased due to the increase of the Investments accounted for by using the equity method.

<sup>5.</sup>Increase in the times interest earned, ROA, ROE and Net income before tax as a percentage of paid-in capital, Net profit rate and EPS: It is mainly because of the profit increase in 2018.

<sup>6.</sup>Decrease in the cash flow adequacy ratio: It is mainly because of the increase in long-term investments in 2018.

 $<sup>7.</sup> Decrease\ in\ operation\ leverage\ and\ financial\ leverage:: It\ is\ mainly\ because\ of\ the\ decrease\ of\ the\ profit\ from\ operations\ in\ 2018.$ 

### 6.3 Audit Committee's report on financial statements

### Audit Committee's Review Report

The Board of Directors has prepared the Company's 2018 Business Report, Financial Statements, and proposal for earnings distribution. The CPA firm of Deloitte & Touch was retained to audit TCC's Financial Statements and has issued an audit report relating to the Financial Statements. The Business Report, Financial Statements, and proposal for earnings distribution have been reviewed and determined to be correct and accurate by the Audit Committee members of Taiwan Cement Corporation. According to Article 14-4 of Security Exchange Act and Article 219 of Company Act, we hereby submit this report.

To
Taiwan Cement Corporation
2019 Annual General Meeting

Taiwan Cement Corporation
Audit Committee convener: Victor Wang
March 22, 2019

### 6.4 Consolidated financial statements of the previous year

### Deloitte.

### 勤業眾信

勤業眾信聯合會計師事務所 11073 台北市信義區松仁路100號20樓

Deloitte & Touche 20F, Taipei Nan Shan Plaza No. 100, Songren Rd., Xinyi Dist., Taipei 11073, Taiwan

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### INDEPENDENT AUDITORS' REPORT

The Board of Directors and Shareholders Taiwan Cement Corporation

### Opinion

We have audited the accompanying consolidated financial statements of Taiwan Cement Corporation and its subsidiaries (collectively referred to as the "Group"), which comprise the consolidated balance sheets as of December 31, 2018 and 2017, and the consolidated statements of comprehensive income, changes in equity and cash flows for the years then ended, and the notes to the consolidated financial statements, including a summary of significant accounting policies (collectively referred to as the "consolidated financial statements").

In our opinion, the accompanying consolidated financial statements present fairly, in all material respects, the consolidated financial position of the Group as of December 31, 2018 and 2017, and its consolidated financial performance and its consolidated cash flows for the years then ended in accordance with the Regulations Governing the Preparation of Financial Reports by Securities Issuers, and International Financial Reporting Standards (IFRS), International Accounting Standards (IAS), IFRIC Interpretations (IFRIC), and SIC Interpretations (SIC) endorsed and issued into effect by the Financial Supervisory Commission of the Republic of China.

### **Basis for Opinion**

We conducted our audits in accordance with the Regulations Governing Auditing and Attestation of Financial Statements by Certified Public Accountants and auditing standards generally accepted in the Republic of China. Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Consolidated Financial Statements section of our report. We are independent of the Group in accordance with The Norm of Professional Ethics for Certified Public Accountant of the Republic of China, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

### **Key Audit Matters**

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the consolidated financial statements for the year ended December 31, 2018. These matters were addressed in the context of our audit of the consolidated financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

The description of the key audit matter of the Group's consolidated financial statements for the year ended December 31, 2018 is as follows:

### Acquisition of Investments Accounted for by Using the Equity Method

As disclosed in Notes 4 and 14 to the consolidated financial statements, the Group established a new subsidiary Taiwan Cement (Dutch) Holdings B.V. in November 2018. Taiwan Cement (Dutch) Holdings B.V. and Ordu Yardimlasma Kurumu established a new corporation Dutch OYAK TCC Holdings B.V. through a joint venture. The Group acquired 40% of equity in Dutch OYAK TCC Holdings B.V., a new joint venture corporation, and indirectly acquires cement investment projects in areas such as Turkey. The Group's management evaluates that the Group has a significant influence on the joint venture but without control. According to IAS 28 Investments in associates and joint ventures, the joint venture accounts for by using the equity method. Since the investment amount is significant to the overall financial statements, we considered the equity method investment is considered as a key audit matter.

Our main audit procedures performed in respect of the equity method investment included the following:

- 1. We understood the management's relevant processes and control on how to assess the acquisition of the investment and whether it was properly approved.
- 2. We assessed the competence and objectivity of the external experts appointed by the management and reviewed the opinions on the reasonableness of the equity price.
- 3. We obtained the transaction voucher, equity agreement and equity registration documents to verify that of the transaction object and conditions were consistent with the approved proposal.

### Other Matter

We have also audited the parent company only financial statements of Taiwan Cement Corporation as of and for the years ended December 31, 2018 and 2017 on which we have issued an unmodified opinion.

### Responsibilities of Management and Those Charged with Governance for the Consolidated Financial Statements

Management is responsible for the preparation and fair presentation of the consolidated financial statements in accordance with the Regulations Governing the Preparation of Financial Reports by Securities Issuers and International Financial Reporting Standards (IFRS), International Accounting Standards (IAS), IFRIC Interpretations (IFRIC), and SIC Interpretations (SIC) endorsed and issued into effect by the Financial Supervisory Commission of the Republic of China, and for such internal control as management determines is necessary to enable the preparation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated financial statements, management is responsible for assessing the Group's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Group or to cease operations, or has no realistic alternative but to do so.

Those charged with governance, including the audit committee, are responsible for overseeing the Group's financial reporting process.

### Auditors' Responsibilities for the Audit of the Consolidated Financial Statements

Our objectives are to obtain reasonable assurance about whether the consolidated financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with the auditing standards generally accepted in the Republic of China will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these consolidated financial statements.

As part of an audit in accordance with the auditing standards generally accepted in the Republic of China, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- 1. Identify and assess the risks of material misstatement of the consolidated financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- 2. Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Group's internal control.
- 3. Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- 4. Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Group's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditors' report to the related disclosures in the consolidated financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditors' report. However, future events or conditions may cause the Group to cease to continue as a going concern.
- 5. Evaluate the overall presentation, structure and content of the consolidated financial statements, including the disclosures, and whether the consolidated financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- 6. Obtain sufficient and appropriate audit evidence regarding the financial information of the entities or business activities within the Group to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision, and performance of the group audit. We remain solely responsible for our audit opinion.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the consolidated financial statements for the year ended December 31, 2018 and are therefore the key audit matters. We describe these matters in our auditors' report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

The engagement partners on the audit resulting in this independent auditors' report are Ya-Ling Wong and Chih-Ming Shao.

Chik-ming, Shao

Deloitte & Touche Taipei, Taiwan

Republic of China

Ya-Ling Wong

March 22, 2019

### Notice to Readers

The accompanying consolidated financial statements are intended only to present the consolidated financial position, financial performance and cash flows in accordance with accounting principles and practices generally accepted in the Republic of China and not those of any other jurisdictions. The standards, procedures and practices to audit such consolidated financial statements are those generally applied in the Republic of China.

For the convenience of readers, the independent auditors' report and the accompanying consolidated financial statements have been translated into English from the original Chinese version prepared and used in the Republic of China. If there is any conflict between the English version and the original Chinese version or any difference in the interpretation of the two versions, the Chinese-language independent auditors' report and consolidated financial statements shall prevail.

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#### TAIWAN CEMENT CORPORATION AND SUBSIDIARIES

CONSOLIDATED BALANCE SHEETS DECEMBER 31, 2018 AND 2017 (In Thousands of New Taiwan Dollars)

| ASSETS  | 2018<br>Amount           | %      | Amount                   |       |
|---|--------------------------|--------|--------------------------|-------|
| ASSETS  | Amount                   | %0     | Amount                   | %0    |
| CURRENT ASSETS  | A 40 F0F 000             |        |                          | 4.0   |
| Cash and cash equivalents (Notes 4 and 6) Financial assets at fair value through profit or loss (Notes 4, 7 and 30)           | \$ 48,507,889<br>549,838 | 14     | \$ 26,331,218<br>147,049 | 10    |
| Financial assets at fair value through other comprehensive income (Notes 4, 8, 30 and 32)                                     | 6,334,259                | 2      | 147,049                  | -     |
| Available-for-sale financial assets (Notes 4, 9, 30 and 32)   | -                        | -      | 25,101,220               | 9     |
| Financial assets at amortized cost (Notes 4, 6 and 32)  | 2,664,157                | 1      | -                        | -     |
| Notes receivable (Notes 4 and 10)   | 29,748,544               | 9      | 20,003,996               | 7 3   |
| Accounts receivable (Notes 4, 10, 11 and 32)  Notes and accounts receivable from related parties (Notes 4 and 31)             | 8,216,174<br>271,618     | _      | 7,072,466<br>229,702     | 3     |
| Other receivables (Notes 4 and 25)  | 955,814                  | _      | 751,932                  | _     |
| Inventories (Notes 4, 12 and 33)  | 9,464,303                | 3      | 8,354,522                | 3     |
| Prepayments (Note 18)   | 3,034,021                | 1      | 2,914,701                | 1     |
| Other financial assets (Notes 4, 6 and 32)  | 624.079                  | -      | 1,302,249                | 1     |
| Other current assets (Note 31)  | 634,078                  |        | 510,859                  |       |
| Total current assets  | 110,380,695              | 32     | 92,719,914               | 34    |
| NON-CURRENT ASSETS  |                          |        |                          |       |
| Financial assets at fair value through other comprehensive income (Notes 4, 8, 30 and 32)                                     | 25,792,169               | 8      | -                        | -     |
| Available-for-sale financial assets (Notes 4, 9, 30 and 32)   | -                        | -      | 3,455,938                | 1     |
| Financial assets measured at cost (Note 4)  | 46,247,974               | 13     | 582,819                  | 3     |
| Investments accounted for by using the equity method (Notes 4 and 14)  Property, plant and equipment (Notes 4, 15, 24 and 32) | 91,093,825               | 26     | 7,940,701<br>94,709,404  | 35    |
| Investment properties (Notes 4, 16, 24 and 32)  | 6,344,460                | 2      | 6,374,920                | 2     |
| Intangible assets (Notes 4, 17 and 24)  | 20,427,352               | 6      | 20,852,624               | 8     |
| Prepayments for property, plant and equipment   | 2,624,195                | 1      | 2,926,304                | 1     |
| Long-term finance lease receivables (Notes 4, 11 and 32)  | 30,951,796               | 9      | 32,425,584               | 12    |
| Net defined benefit asset (Notes 4 and 22) Long-term prepayments for leases (Note 18)   | 999,648                  | 2      | 897,637<br>6,833,745     | 3     |
| Other non-current assets (Notes 4, 25 and 32)   | 6,584,246<br>2,638,758   | 1      | 2,837,459                | 1     |
| Total non-current assets  | 233,704,423              | 68     | 179,837,135              | 66    |
| TOTAL   |                          |        |                          |       |
| IOTAL   | <u>\$ 344,085,118</u>    | 100    | <u>\$ 272,557,049</u>    | 100   |
| LIABILITIES AND EQUITY  CURRENT LIABILITIES   |                          |        |                          |       |
| Short-term loans (Notes 19, 28 and 32)  | \$ 26,226,051            | 8      | \$ 20,314,112            | 7     |
| Short-term bills payable (Note 19)  | 7,402,214                | 2      | 7,991,417                | 3     |
| Financial liabilities at fair value through profit or loss (Notes 4, 7 and 30)  | 139,460                  | -      | -                        | -     |
| Contract liabilities  | 5,114,644                | 2      | -                        | -     |
| Notes and accounts payable (Note 31)  | 7,808,921                | 2 3    | 7,789,179                | 3     |
| Other payables (Notes 21 and 33) Current income tax liabilities (Notes 4 and 25)  | 11,683,170<br>4,090,640  | 1      | 8,839,408<br>1,651,042   | 1     |
| Advance receipts  | -                        | -      | 4,548,755                | 2     |
| Long-term loans - current portion (Notes 19, 28 and 32)   | 1,923,945                | 1      | 13,910,242               | 5     |
| Other current liabilities   | 114,799                  |        | 148,805                  |       |
| Total current liabilities   | 64,503,844               | 19     | 65,192,960               | 24    |
| NON-CURRENT LIABILITIES   |                          |        |                          |       |
| Bonds payable (Notes 4 and 20)  | 22,777,693               | 7      | -                        | -     |
| Long-term loans (Notes 19, 28 and 32)   | 24,631,973               | 7      | 43,494,968               | 16    |
| Deferred income tax liabilities (Notes 4 and 25) Long-term bills payable (Note 19)  | 11,326,154<br>22,476,880 | 3<br>7 | 10,397,776               | 4     |
| Net defined benefit liabilities (Notes 4 and 22)  | 210,515                  | -      | 211,697                  | -     |
| Other non-current liabilities (Note 33)   | 778,603                  |        | 612,432                  |       |
| Total non-current liabilities   | 82,201,818               | 24     | 54,716,873               |       |
| Total liabilities   | 146,705,662              | 43     | 119,909,833              | 44    |
| EQUITY ATTRIBUTABLE TO SHAREHOLDERS OF THE PARENT (Notes 4, 23 and 27)  |                          |        |                          |       |
| Share capital   | 53,080,599               | 15     | 42,465,090               | 16    |
| Capital surplus   | 47,836,241               | 14     | 25,739,065               | 9     |
| Retained earnings   | 61,588,761               | 18     | 49,019,510               | 18    |
| Others<br>Treasury shares   | 19,038,454<br>(2,545)    | 6      | 19,124,539               | 7<br> |
| Equity attributable to shareholders of the parent   | 181,541,510              | 53     | 136,348,204              | 50    |
| NON-CONTROLLING INTERESTS (Notes 23 and 27)   | 15,837,946               | 4      | 16,299,012               | 6     |
| Total equity  | 197,379,456              | 57     | 152,647,216              | 56    |
| TOTAL   | \$ 344,085,118           | 100    | \$ 272,557,049           | 100   |
|   | <u> </u>                 |        |                          |       |

The accompanying notes are an integral part of the consolidated financial statements.

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### CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME FOR THE YEARS ENDED DECEMBER 31, 2018 AND 2017

(In Thousands of New Taiwan Dollars, Except Earnings Per Share)

|  | 2018           |           | 2017          |          |
|--|----------------|-----------|---------------|----------|
|  | Amount         | %         | Amount        | %        |
| OPERATING REVENUE (Notes 4 and 31)                 | \$ 124,594,602 | 100       | \$ 98,311,776 | 100      |
| OPERATING COSTS (Notes 4, 12, 24 and 31)           | 91,003,063     | <u>73</u> | 79,398,862    | _81      |
| GROSS PROFIT                                       | 33,591,539     | 27        | 18,912,914    | _19      |
| OPERATING EXPENSES (Notes 24 and 31)               | 001 (11        |           | 501.540       |          |
| Marketing  | 901,611        | 1         | 791,540       | 1        |
| General and administrative                         | 4,485,361      | 4         | 4,126,090     | 4        |
| Research and development                           | 23,666         |           | 32,399        |          |
| Total operating expenses                           | 5,410,638      | 5         | 4,950,029     | 5        |
| INCOME FROM OPERATIONS                             | 28,180,901     | 22        | 13,962,885    | 14       |
| NON-OPERATING INCOME AND EXPENSES                  |                |           |               |          |
| Share of profit of associates and joint ventures   |                |           |               |          |
| (Notes 4 and 14)                                   | 2,263,413      | 2         | 1,271,111     | 1        |
| Interest income (Note 4)                           | 584,482        | _         | 244,041       | _        |
| Dividend income (Note 4)                           | 1,326,142      | 1         | 799,137       | 1        |
| Other income (Note 24)                             | 884,648        | 1         | 628,473       | 1        |
| Finance costs (Notes 4 and 24)                     | (2,460,302)    | (2)       | (1,923,309)   | (2)      |
| Other expenses (Note 24)                           | (252,595)      | -         | (555,190)     | (1)      |
| Foreign exchange gains (losses), net               | 48,764         | _         | (241,360)     | -        |
| Impairment loss recognized on financial assets     | -              | _         | (110,507)     | _        |
| Impairment loss recognized on non-financial assets |                |           | ( ) /         |          |
| (Notes 15 and 17)                                  | (31,032)       |           | (250,622)     |          |
| Total non-operating income and expenses            | 2,363,520      | 2         | (138,226)     |          |
| INCOME BEFORE INCOME TAX                           | 30,544,421     | 24        | 13,824,659    | 14       |
| INCOME TAX EXPENSE (Notes 4 and 25)                | 7,900,350      | 6         | 3,501,859     | 3        |
| NET INCOME   | 22,644,071     | 18        | 10,322,800    | 11       |
|  |                |           | (Cor          | ntinued) |

### TAIWAN CEMENT CORPORATION AND SUBSIDIARIES

### CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME FOR THE YEARS ENDED DECEMBER 31, 2018 AND 2017

(In Thousands of New Taiwan Dollars, Except Earnings Per Share)

|  | 2018                       |             | 2017                      |                    |
|--|----------------------------|-------------|---------------------------|--------------------|
|  | Amount                     | %           | Amount                    | %                  |
| OTHER COMPREHENSIVE INCOME (LOSS) (Note 4) Items that will not be reclassified subsequently to   |                            |             |                           |                    |
| profit or loss: Remeasurement of defined benefit plan (Note 22) Unrealized gain on investments in equity   | \$ 93,286                  | -           | \$ 12,233                 | -                  |
| instruments at fair value through other comprehensive income (Note 23) Share of other comprehensive income (loss) of   | 1,420,706                  | 1           | -                         | -                  |
| associates and joint ventures (Note 23) Income tax expense related to items that will not be reclassified subsequently to profit or loss   | (168,150)                  | -           | 3,444                     | -                  |
| (Note 25)  | (26,091)<br>1,319,751      | <u> </u>    | (2,080)<br>13,597         | <del>-</del>       |
| Items that may be reclassified subsequently to profit or loss:  Exchange differences on translating foreign operations (Note 23)  Unrealized gain on available for selections in the selection of | (3,973,489)                | (3)         | 1,357,564                 | 1                  |
| Unrealized gain on available-for-sale financial assets (Note 23)   | -                          | -           | 8,815,404                 | 9                  |
| Cash flow hedges (Note 23) Share of other comprehensive loss of associates and joint ventures (Note 23) Income tax expense related to items that may be  | (284,799)                  | -           | (13,167)<br>(194,765)     | -                  |
| reclassified subsequently to profit or loss (Notes 23 and 25)  | 1,861<br>(4,256,427)       | <u>(3)</u>  | (1,861)<br>9,963,175      | <u> </u>           |
| Other comprehensive income (loss) for the year, net of income tax  | (2,936,676)                | <u>(2</u> ) | 9,976,772                 | 10                 |
| TOTAL COMPREHENSIVE INCOME FOR THE YEAR  | <u>\$ 19,707,395</u>       | <u>16</u>   | \$ 20,299,572             | 21                 |
| NET INCOME ATTRIBUTABLE TO:<br>Shareholders of the parent<br>Non-controlling interests   | \$ 21,180,821<br>1,463,250 | 17<br>1     | \$ 7,594,247<br>2,728,553 | 7<br><u>3</u>      |
|  | \$ 22,644,071              | <u>18</u>   | \$ 10,322,800<br>(Con     | <u>10</u> ntinued) |

### CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME FOR THE YEARS ENDED DECEMBER 31, 2018 AND 2017

(In Thousands of New Taiwan Dollars, Except Earnings Per Share)

|  | 2018                 |           | 2017               |        |
|--|----------------------|-----------|--------------------|--------|
|  | Amount               | %         | Amount             | %      |
| TOTAL COMPREHENSIVE INCOME (LOSS) ATTRIBUTABLE TO: |                      |           |                    |        |
| Shareholders of the parent                         | \$ 18,245,179        | 15        | \$ 17,775,812      | 18     |
| Non-controlling interests                          | 1,462,216            | 1         | 2,523,760          | 3      |
|  | <u>\$ 19,707,395</u> | <u>16</u> | \$ 20,299,572      | 21     |
|  | Income Attributa     | able to S | hareholders of the | Parent |
|  | 2018                 |           | 2017               |        |
| EARNINGS PER SHARE (Note 26)                       |                      |           |                    |        |
| Basic earnings per share                           | <u>\$4.37</u>        |           | <u>\$1.82</u>      |        |
| Diluted earnings per share                         | <u>\$4.37</u>        |           | <u>\$1.82</u>      |        |

The accompanying notes are an integral part of the consolidated financial statements.

(Concluded)

|   |                          |   |                 |               |                       |   |                            |                           |   | Others   |                  |                                |                 |                |                              |                |
|---|--------------------------|---|-----------------|---------------|-----------------------|---|----------------------------|---------------------------|---|--|------------------|--------------------------------|-----------------|----------------|------------------------------|----------------|
|   |                          |   |                 |               | Determined Franchises |   |                            | Exchange<br>Difference on | Unrealized                              | Unrealized Gain<br>on Financial<br>Assets at Fair<br>Value Through |                  |                                |                 |                |                              |                |
|   | Share<br>Ordinary Shares | Share Capital<br>nares Preferred Shares | Capital Surplus | Legal Reserve | Special Reserve       | Unappropriated<br>Earnings              | Total                      |                           | Available- for-sale<br>Financial Assets | Comprehensive<br>Income  | Cash Flow Hedges | Gain on Hedging<br>Instruments | Treasury Shares | Total          | Non-controlling<br>Interests | Total Equity   |
| BALANCE AT, JANUARY 1, 2017   | \$ 36,921,759            | · ·                                     | \$ 13,534,162   | \$ 13,389,264 | \$ 13,050,484         | \$ 20,897,776                           | \$ 47,337,524              | \$ (2,233,617)            | \$ 11,200,323                           |  | \$ 7,900         | · ·                            | · ·             | \$ 106,768,051 | \$ 40,628,620                | \$ 147,396,671 |
| Appropriation of 2016 earnings<br>Legal reserve<br>Cash dividends distributed by the Corporation  |                          |   |                 | 635,845       |                       | (635,845)                               | . (5,353,655)              |                           |   |  |                  |                                |                 | . (5,353,655)  |                              | (5,353,655)    |
| Cash dividends distributed by subsidiaries  |                          |   |                 |               |                       |   |                            |                           |   |  |                  |                                |                 |                | (2,258,975)                  | (2,258,975)    |
| Net income for the year ended December 31, 2017   |                          | ٠                                       |                 |               | ٠                     | 7,594,247                               | 7,594,247                  |                           |   |  |                  |                                |                 | 7,594,247      | 2,728,553                    | 10,322,800     |
| Other comprehensive income (bss) for the year ended December 31,2017, not of income tax   |                          |   |                 |               |                       | 31.632                                  | 31,632                     | 1,443,142                 | 8.714.691                               |  | (7,900)          |                                |                 | 10.181.565     | (204,793)                    | 9,976,772      |
| Total comprehensive income (loss) for the year ended December 31, 2017  |                          |   |                 |               |                       | 7,625,879                               | 7,625,879                  | 1,443,142                 | 8,714,691                               |  | (7,900)          |                                |                 | 17,775,812     | 2,523,760                    | 20,299,572     |
| Difference between consideration received/paid and the earrying amount of subsidiaries' net assets during actual acquisitions and disposals         | •                        |   | (1,224,547)     |               |                       | (590,238)                               | (590,238)                  |                           |   |  |                  |                                |                 | (1,814,785)    | 1,408,336                    | (406,449)      |
| Changes in ownership interests of subsidiaries  |                          |   | 2,120           |               |                       |   |                            |                           |   | ٠  |                  |                                |                 | 2,120          | 389                          | 2,509          |
| Issuance of new shares for the acquisition of shares in subsidiaries  | 5,543,331                |   | 13,427,330      | •             |                       |   | ٠                          | •                         | •                                       |  | ٠                |                                |                 | 18,970,661     | ,                            | 18,970,661     |
| Changes in non-controlling interests  |                          | •                                       | •               |               |                       | ,                                       | ,                          |                           |   |  | ,                |                                |                 | ,              | (26,003,118)                 | (26,003,118)   |
| Reversal of special reserve recognized from asset disposals   |                          |   |                 |               | (849)                 | 849                                     |                            |                           |   |  |                  |                                |                 |                |                              |                |
| BALANCE AT, DECEMBER 31, 2017   | 42,465,090               | •                                       | 25,739,065      | 14,025,109    | 13,049,635            | 21,944,766                              | 49,019,510                 | (790,475)                 | 19,915,014                              |  | •                |                                | •               | 136,348,204    | 16,299,012                   | 152,647,216    |
| Adjustments on initial application of IFRS 9  |                          |   |                 |               |                       | 654,005                                 | 654,005                    |                           | (19,915,014)                            | 24,158,871   |                  |                                |                 | 4,897,862      | 16,365                       | 4,914,227      |
| BALANCE AT. JANUARY 1, 2018 AFTER THE IMPACT OF<br>RETROSPECTIVE APPLICATION OF IFRS 9  | 42,465,090               |   | 25,739,065      | 14,025,109    | 13,049,635            | 22.598.771                              | 49,673,515                 | (790.475)                 |   | 24,158,871   |                  |                                |                 | 141,246,066    | 16,315,377                   | 157,561,443    |
| Appropriation of 2017 earnings<br>Legal reserves<br>Cash dividends distributed by the Corporation<br>Share dividends distributed by the Corporation | 4,240,509                |   |                 | 759,425       |                       | (759,425)<br>(6,360,764)<br>(4,240,509) | (6,360,764)<br>(4,240,509) |                           |   |  |                  |                                |                 | (6,360,764)    |                              | (6,360,764)    |
| Cash dividends distributed by subsidiaries  |                          | •                                       | •               |               |                       | ٠                                       | ٠                          |                           |   |  | ٠                | ٠                              |                 | ٠              | (2,175,906)                  | (2,175,906)    |
| Net income for the year ended December 31, 2018.  |                          |   |                 |               |                       | 21,180,821                              | 21,180,821                 |                           |   |  |                  |                                |                 | 21,180,821     | 1,463,250                    | 22,644,071     |
| Other comprehensive income (boss) for the year ended December $31,2018, \\$ net of income tax   | *                        |   |                 |               |                       | 73.268                                  | 73.268                     | (4,246,746)               | 1                                       | 1,236,727  | *                | 1,109                          |                 | (2.935,642)    | (1,034)                      | (2.936,676)    |
| Total comprehensive income (loss) for the year ended December 31, 2018  |                          |   |                 | "             | "                     | 21,254,089                              | 21.254,089                 | (4,246,746)               |   | 1.236,727  |                  | 1,109                          |                 | 18.245,179     | 1,462,216                    | 19,707,395     |
| Issuance of global depositary shares  | 4,375,000                |   | 12,339,355      |               |                       |   |                            |                           |   |  |                  |                                |                 | 16,714,355     |                              | 16,714,355     |
| Issuance of preference shares   |                          | 2,000,000                               | 7,973,907       |               |                       | ,                                       | ,                          |                           |   |  | ,                |                                |                 | 9,973,907      | ,                            | 9,973,907      |
| Organization restructuring  |                          | •                                       | •               |               |                       | (58,513)                                | (58,513)                   |                           |   |  | ,                |                                |                 | (58,513)       | (49,150)                     | (107,663)      |
| Difference between consideration and the carrying amount of subsidiaries' net assets during actual acquisitions or disposals                        |                          |   | 466,755         |               |                       |   |                            |                           |   |  |                  |                                |                 | 466,755        | 285,387                      | 752,142        |
| Changes in ownership interests of subsidiaries  |                          |   | 41              |               |                       |   |                            |                           |   |  |                  |                                |                 | 41             | 22                           | 63             |
| Changes in capt at surplus from investments in associates and joint ventures accounted for using the equity method                                  |                          |   | (459)           |               |                       | (68)                                    | (88)                       |                           |   |  |                  |                                |                 | (548)          |                              | (548)          |
| Disposals of investments in equity instruments at fair value through other comprehensive income   |                          |   |                 |               |                       | 1,321,032                               | 1,321,032                  |                           |   | (1,321,032)  |                  |                                |                 |                |                              |                |
| Reversal of special reserve recognized from asset disposals   |                          |   | ,               |               | (573)                 | 573                                     |                            |                           |   |  |                  |                                |                 | ,              | ,                            |                |
| Equity components of issuance of convertible bonds  |                          |   | 1,308,070       | •             |                       |   |                            | ,                         | ,                                       |  |                  |                                |                 | 1,308,070      |                              | 1,308,070      |
| Buy-back of treasury shares   | •                        | •                                       | •               |               |                       |   |                            |                           |   |  |                  | •                              | (218,166)       | (218,166)      |                              | (218,166)      |
| Compensation costs of treasury shares transferred to employees  |                          |   | 45,448          | •             |                       |   |                            |                           |   |  |                  |                                |                 | 45,448         | ,                            | 45,448         |
| Treasury shares transfer to employees   |                          |   | (35,941)        |               |                       |   |                            |                           |   |  |                  |                                | 215,621         | 179,680        |                              | 179,680        |
| BALANCE AT, DECEMBER 31, 2018   | \$ 51,080,599            | \$ 2,000,000                            | \$ 47,836.241   | \$ 14,784,534 | \$ 13.049,062         | \$ 33,755,165                           | \$ 61.588.761              | \$ (5.037.221)            | ·                                       | \$ 24,074,566  | \$9              | \$ 1,109                       | \$ (2.545)      | \$ 181,541,510 | \$ 15,837,946                | \$ 197,379,456 |
|   |                          |   |                 |               |                       |   |                            |                           |   |  |                  |                                |                 |                |                              |                |

### CONSOLIDATED STATEMENTS OF CASH FLOWS FOR THE YEARS ENDED DECEMBER 31, 2018 AND 2017

(In Thousands of New Taiwan Dollars)

|   | 2018          | 2017          |
|---|---------------|---------------|
| CASH FLOWS FROM OPERATING ACTIVITIES                                    |               |               |
| Income before income tax  | \$ 30,544,421 | \$ 13,824,659 |
| Adjustments for:  | Ψ 50,511,121  | Ψ 15,021,055  |
| Depreciation expense  | 6,129,527     | 6,080,554     |
| Amortization expense  | 387,194       | 383,239       |
| Net loss (gain) on fair value changes of financial assets and           | ,             | ,             |
| liabilities at fair value through profit or loss                        | (19,306)      | 103,169       |
| Finance costs   | 2,460,302     | 1,923,309     |
| Interest income   | (584,482)     | (244,041)     |
| Dividend income   | (1,326,142)   | (799,137)     |
| Compensation costs  | 45,448        | -             |
| Share of profit of associates and joint ventures                        | (2,263,413)   | (1,271,111)   |
| Loss on disposal of property, plant and equipment, net                  | 78,190        | 191,033       |
| Loss on disposal of investment properties                               | 16,642        | -             |
| Loss on disposal of investments, net                                    | -             | 303           |
| Impairment loss on financial assets                                     | -             | 110,507       |
| Impairment loss on non-financial assets                                 | 31,032        | 250,622       |
| (Reversal of) write-downs of inventories                                | 82,954        | (112,076)     |
| Unrealized loss on foreign exchange, net                                | 240,681       | 114,129       |
| Others  | 229,352       | 219,634       |
| Changes in operating assets and liabilities:                            |               |               |
| Financial assets held for trading                                       | -             | (105,184)     |
| Financial assets mandatorily classified as at fair value through profit |               |               |
| or loss   | (10,517)      | -             |
| Notes receivable  | (10,376,722)  | (8,569,848)   |
| Accounts receivable   | (1,147,369)   | (334,841)     |
| Notes and accounts receivable from related parties                      | (40,768)      | 295,570       |
| Other receivables   | (117,510)     | (70,927)      |
| Other receivables from related parties                                  | (21,008)      | 68,842        |
| Inventories   | (1,298,491)   | (70,534)      |
| Prepayments   | (56,930)      | (136,853)     |
| Other current assets  | (90,635)      | (73,761)      |
| Contract liabilities  | 598,875       | -             |
| Notes and accounts payable  | 88,650        | 254,865       |
| Other payables  | 2,970,433     | 1,759,499     |
| Advance receipts  | -             | 1,311,936     |
| Other current liabilities   | (34,006)      | 74,443        |
| Net defined benefit liability   | (9,907)       | (30,420)      |
| Cash generated from operations  | 26,506,495    | 15,147,580    |
| Income tax paid   | (4,355,775)   | (2,837,020)   |
| Net cash generated from operating activities                            | 22 150 720    | 12,310,560    |
| rici cash generated from operating activities                           | 22,150,720    | (Continued)   |
|   |               | (Continued)   |

### TAIWAN CEMENT CORPORATION AND SUBSIDIARIES

### CONSOLIDATED STATEMENTS OF CASH FLOWS FOR THE YEARS ENDED DECEMBER 31, 2018 AND 2017 (In Thousands of New Taiwan Dollars)

|  | 2018         | 2017                        |
|--|--------------|-----------------------------|
| CASH FLOWS FROM INVESTING ACTIVITIES                                     |              |                             |
| Purchases of financial assets at fair value through other comprehensive  |              |                             |
| income   | \$ (292,469) | \$ -                        |
| Proceeds from disposal of financial assets at fair value through other   |              |                             |
| comprehensive income   | 1,333        | -                           |
| Purchases of financial assets at amortized cost                          | (1,567,977)  | -                           |
| Purchases of available-for-sale financial assets                         | -            | (245,128)                   |
| Proceeds from sale of available-for-sale financial assets                | -            | 57,597                      |
| Proceeds from the return of capital upon investees' capital reduction of |              |                             |
| financial assets carried at cost   | -            | 5,833                       |
| Acquisition of investments accounted for by using the equity method      | (33,485,490) | -                           |
| Proceeds from the return of capital upon investees' capital reduction of | 40.004       | 407.004                     |
| investees measured by using the equity method                            | 10,884       | 185,902                     |
| Payments for property, plant and equipment                               | (4,317,919)  | (1,523,028)                 |
| Proceeds from disposal of property, plant and equipment                  | 389,942      | 242,135                     |
| Payments for intangible assets   | (54,885)     | (291,211)                   |
| Decrease in long-term finance lease receivables                          | 1,473,788    | 1,240,456                   |
| Increase in other financial assets                                       | -            | (563,702)                   |
| Decrease in other non-current assets                                     | 292,444      | 688,785                     |
| Increase in prepayments for leases                                       | (158,408)    | (190,211)                   |
| Interest received  | 538,327      | 250,905                     |
| Dividends received   | 1,598,131    | 1,197,271                   |
| Net cash generated from (used in) investing activities                   | (35,572,299) | 1,055,604                   |
| CASH FLOWS FROM FINANCING ACTIVITIES                                     |              |                             |
| Increase in short-term loans   | 5,760,814    | 374,531                     |
| Issuance of bonds payable  | 24,223,847   | -                           |
| Increase in long-term loans  | 16,244,617   | 9,412,885                   |
| Repayments of long-term loans  | (48,536,395) | (10,020,076)                |
| Increase in long-term bills payable                                      | 22,476,880   | -                           |
| Increase (decrease) in short-term bills payable                          | (589,203)    | 2,069,899                   |
| Increase (decrease) in other non-current liabilities                     | 166,171      | (134,533)                   |
| Cash dividends paid  | (8,536,670)  | (7,612,630)                 |
| Issuance of shares for cash  | 26,688,262   | -                           |
| Treasury shares transfer to employees                                    | 179,680      | -                           |
| Payment for buy-back of treasury shares                                  | (218,166)    | -                           |
| Acquisitions of subsidiaries   | (170,899)    | (7,234,603)                 |
| Partial disposals of interests in subsidiaries without a loss of control | 788,539      | 16,917                      |
| Interest paid  | (2,249,022)  | (1,764,869)                 |
| Net cash generated from (used in) financing activities                   | 36,228,455   | (14,892,479)<br>(Continued) |

CONSOLIDATED STATEMENTS OF CASH FLOWS FOR THE YEARS ENDED DECEMBER 31, 2018 AND 2017 (In Thousands of New Taiwan Dollars)

|  | 2018          | 2017          |
|--|---------------|---------------|
| EFFECTS OF EXCHANGE RATE CHANGES ON CASH AND CASH EQUIVALENTS                | \$ (630,205)  | \$ (322,225)  |
| NET INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS                         | 22,176,671    | (1,848,540)   |
| CASH AND CASH EQUIVALENTS AT THE BEGINNING OF THE YEAR                       | 26,331,218    | 28,179,758    |
| CASH AND CASH EQUIVALENTS AT THE END OF THE YEAR                             | \$ 48,507,889 | \$ 26,331,218 |
|  |               |               |
| The accompanying notes are an integral part of the consolidated financial st | tatements.    | (Concluded)   |

### 6.5 Parent company only financial statements of the previous year

### Deloitte.

### 勤業眾信

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### INDEPENDENT AUDITORS' REPORT

The Board of Directors and Shareholders Taiwan Cement Corporation

### **Opinion**

We have audited the accompanying financial statements of Taiwan Cement Corporation (the "Corporation"), which comprise the balance sheets as of December 31, 2018 and 2017, and the statements of comprehensive income, changes in equity and cash flows for the years then ended, and the notes to the financial statements, including a summary of significant accounting policies (collectively referred to as the "financial statements").

In our opinion, the accompanying financial statements present fairly, in all material respects, the financial position of the Corporation as of December 31, 2018 and 2017, and its financial performance and its cash flows for the years then ended in accordance with the Regulations Governing the Preparation of Financial Reports by Securities Issuers.

### **Basis for Opinion**

We conducted our audits in accordance with the Regulations Governing Auditing and Attestation of Financial Statements by Certified Public Accountants and auditing standards generally accepted in the Republic of China. Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the Corporation in accordance with The Norm of Professional Ethics for Certified Public Accountant of the Republic of China, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

### **Key Audit Matters**

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the financial statements for the year ended December 31, 2018. These matters were addressed in the context of our audit of the financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

The description of the key audit matter of the Corporation's financial statements for the year ended December 31, 2018 is as follows:

### Acquisition of Investments Accounted for by Using the Equity Method

As disclosed in Notes 4 and 14 to the financial statements, the Corporation established a new subsidiary Taiwan Cement (Dutch) Holdings B.V. in November 2018. Taiwan Cement (Dutch) Holdings B.V. and Ordu Yardimlasma Kurumu established a new corporation Dutch OYAK TCC Holdings B.V. through a joint venture. The Group acquired 40% of equity in Dutch OYAK TCC Holdings B.V., a new joint venture corporation, and indirectly acquires cement investment projects in areas such as Turkey. The Corporation's management evaluates that the Group has a significant influence on the joint venture but without control. According to IAS 28 Investments in associates and joint ventures, the joint venture accounts for by using the equity method. Since the investment amount is significant to the overall financial statements, we considered the equity method investment is considered as a key audit matter.

Our main audit procedures performed in respect of the equity method investment included the following:

- 1. We understood the management's relevant processes and control on how to assess the acquisition of the investment and whether it was properly approved.
- 2. We assessed the competence and objectivity of the external experts appointed by the management and reviewed the opinions on the reasonableness of the equity price.
- 3. We obtained transaction voucher, equity agreement and equity registration documents to verify that of the transaction object and conditions were consistent with the approved proposal.

### Responsibilities of Management and Those Charged with Governance for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with the Regulations Governing the Preparation of Financial Reports by Securities Issuers, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Corporation's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Corporation or to cease operations, or has no realistic alternative but to do so.

Those charged with governance, including the audit committee, are responsible for overseeing the Corporation's financial reporting process.

### Auditors' Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with the auditing standards generally accepted in the Republic of China will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with the auditing standards generally accepted in the Republic of China, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- 1. Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- 2. Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Corporation's internal control.
- 3. Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- 4. Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Corporation's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditors' report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditors' report. However, future events or conditions may cause the Corporation to cease to continue as a going concern.
- 5. Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- 6. Obtain sufficient and appropriate audit evidence regarding the financial information of the entities or business activities within the Corporation to express an opinion on the financial statements. We are responsible for the direction, supervision, and performance of the audit. We remain solely responsible for our audit opinion.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the financial statements for the year ended December 31, 2018 and are therefore the key audit matters. We describe these matters in our auditors' report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

The engagement partners on the audit resulting in this independent auditors' report are Ya-Ling Wong and Chih-Ming Shao.

Chili-ming, Shao

Deloitte & Touche Taipei, Taiwan Republic of China

Ya-Ling Wong

March 22, 2019

### Notice to Readers

The accompanying financial statements are intended only to present the financial position, financial performance and cash flows in accordance with accounting principles and practices generally accepted in the Republic of China and not those of any other jurisdictions. The standards, procedures and practices to audit such financial statements are those generally applied in the Republic of China.

For the convenience of readers, the independent auditors' report and the accompanying financial statements have been translated into English from the original Chinese version prepared and used in the Republic of China. If there is any conflict between the English version and the original Chinese version or any difference in the interpretation of the two versions, the Chinese-language independent auditors' report and financial statements shall prevail.

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#### TAIWAN CEMENT CORPORATION

BALANCE SHEETS DECEMBER 31, 2018 AND 2017 (In Thousands of New Taiwan Dollars)

|   | 2018                    |         | 2017                    |          |
|---|-------------------------|---------|-------------------------|----------|
| ASSETS  | Amount                  | %       | Amount                  | %        |
| CURRENT AGGETO  |                         |         |                         |          |
| CURRENT ASSETS Cash and cash equivalents (Notes 4 and 6)  | \$ 11,643,685           | 4       | \$ 759,845              | 1        |
| Financial assets at fair value through profit or loss - current (Notes 4, 7 and 25)                       | 249,590                 | -       | Ψ 155,045               | -        |
| Financial assets at fair value through other comprehensive income - current (Notes 4, 8 and 25)           | 3,353,049               | 1       | -                       | _        |
| Available-for-sale financial assets (Notes 4 and 9)   | -                       | -       | 3,740,687               | 2        |
| Accounts and notes receivable (Notes 4 and 10)  | 3,882,406               | 2       | 3,174,220               | 2        |
| Accounts and notes receivable from related parties (Notes 4 and 26)                                       | 474,862                 | -       | 425,326                 | -        |
| Inventories (Notes 4, 11 and 28)  | 1,376,273               | 1       | 1,655,298               | 1        |
| Other current assets (Note 26)  | 191,053                 |         | 156,652                 |          |
| Total current assets  | 21,170,918              | 8       | 9,912,028               | 6        |
| NON-CURRENT ASSETS  |                         |         |                         |          |
| Financial assets at fair value through other comprehensive income - non-current (Notes 4, 8 and           |                         |         |                         |          |
| 25)   | 4,385,175               | 2       | -                       | -        |
| Available-for-sale financial assets (Notes 4 and 9)   | -                       | -       | 2,419,650               | 1        |
| Financial assets measured at cost (Note 4)  | - 205 207 011           | 70      | 85,159                  | - 72     |
| Investments accounted for by using the equity method (Notes 4, 5, 12 and 23)                              | 205,397,811             | 78      | 118,108,972             | 73<br>17 |
| Property, plant and equipment (Notes 4, 13, 20 and 27)<br>Investment properties (Notes 4, 14 and 20)      | 27,007,306<br>3,352,677 | 10<br>1 | 27,577,177<br>3,352,908 | 2        |
| Intangible assets (Notes 4 and 20)  | 10,711                  | -       | 21,394                  | -        |
| Net defined benefit asset (Notes 4 and 18)  | 991,103                 | _       | 889,179                 | 1        |
| Other non-current assets (Notes 4, 21 and 27)   | 1,144,282               | 1       | 322,261                 |          |
| Total non-current assets  | 242,289,065             | 92      | 152,776,700             | 94       |
| TOTAL   | \$ 263,459,983          | 100     | <u>\$ 162,688,728</u>   | 100      |
| LIABILITIES AND EQUITY  |                         |         |                         |          |
| CURRENT LIABILITIES   |                         | _       |                         | _        |
| Short-term loans (Note 15)  | \$ 12,969,000           | 5       | \$ 8,522,150            | 5        |
| Short-term bills payable (Note 15)  | 1,499,674<br>139,460    | 1       | 1,899,014               | 1        |
| Financial liabilities at fair value through profit or loss - current (Notes 4, 7 and 25) Accounts payable | 938,007                 | -       | 797,820                 | 1        |
| Accounts payable to related parties (Note 26)   | 987,658                 | _       | 748,977                 | -        |
| Other payables (Note 17)  | 1,863,564               | 1       | 1,443,197               | 1        |
| Current income tax liabilities (Notes 4 and 21)   | , ,                     | -       | 132,708                 | -        |
| Long-term loans - current portion (Note 15)   | =                       | -       | 7,276,733               | 5        |
| Other current liabilities (Note 26)   | 86,532                  |         | 108,619                 |          |
| Total current liabilities   | 18,483,895              | 7       | 20,929,218              | 13       |
| Total Carron Monaco   |                         |         |                         |          |
| NON-CURRENT LIABILITIES   |                         |         |                         |          |
| Bonds payable (Notes 4 and 26)  | 22,777,693              | 9       | -                       | -        |
| Long-term loans (Note 15)   | 13,510,417              | 5       | =                       | -        |
| Notes payable (Note 15)   | 21,478,716              | 8       | 5 164 505               | - 2      |
| Deferred income tax liabilities (Notes 4 and 21) Other non-current liabilities                            | 5,239,334<br>428,418    | 2       | 5,164,505<br>246,801    | 3        |
| Other non-current matringes   | 420,410                 |         | 240,001                 |          |
| Total non-current liabilities   | 63,434,578              | 24      | 5,411,306               | 3        |
| Total liabilities   | 81,918,473              | _31     | 26,340,524              | _16      |
| EQUITY (Notes 4, 19 and 23)   |                         |         |                         |          |
| Share capital   | 53,080,599              | 20      | 42,465,090              | 26       |
| Capital surplus   | 47,836,241              | 18      | 25,739,065              | 16       |
| Retained earnings   | 61,588,761              | 24      | 49,019,510              | 30       |
| Others  | 19,038,454              | 7       | 19,124,539              | 12       |
| Treasury shares   | (2,545)                 |         |                         |          |
| Total equity  | 181,541,510             | _69     | 136,348,204             | 84       |
| TOTAL   | <u>\$ 263,459,983</u>   | 100     | <u>\$ 162,688,728</u>   | 100      |

The accompanying notes are an integral part of the financial statements.

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### TAIWAN CEMENT CORPORATION

### STATEMENTS OF COMPREHENSIVE INCOME FOR THE YEARS ENDED DECEMBER 31, 2018 AND 2017

(In Thousands of New Taiwan Dollars, Except Earnings Per Share)

|  | 2018  |                      | 2017   |                     |
|--|---|----------------------|--|---------------------|
|  | Amount  | %                    | Amount                                       | %                   |
| OPERATING REVENUE (Notes 4 and 26)   | \$ 17,057,945                                 | 100                  | \$ 16,274,654                                | 100                 |
| LESS: SALES RETURNS AND ALLOWANCES   | 78,500  |                      | 58,777                                       |                     |
| OPERATING REVENUE, NET   | 16,979,445                                    | 100                  | 16,215,877                                   | 100                 |
| OPERATING COSTS (Notes 4, 11, 20 and 26)   | 15,600,509                                    | 92                   | 14,500,652                                   | 90                  |
| GROSS PROFIT   | 1,378,936                                     | 8                    | 1,715,225                                    | 10                  |
| REALIZED GAIN ON TRANSACTIONS WITH SUBSIDIARIES  | 1,228   |                      | 1,228  |                     |
| REALIZED GROSS PROFIT  | 1,380,164                                     | 8                    | 1,716,453                                    | 10                  |
| OPERATING EXPENSES (Notes 20 and 26) Marketing General and administrative  | 230,176<br>957,120                            | 1<br>6               | 180,458<br>640,703                           | 1<br>4              |
| Total operating expenses   | 1,187,296                                     | 7                    | 821,161                                      | 5                   |
| INCOME FROM OPERATIONS   | 192,868                                       | 1                    | 895,292                                      | 5                   |
| NON-OPERATING INCOME AND EXPENSES Share of profit of subsidiaries and associates (Note 12) Dividend income (Note 4) Other income (Note 20) Finance costs (Note 20) | 21,133,842<br>381,051<br>346,278<br>(481,032) | 125<br>2<br>2<br>(3) | 6,950,116<br>323,812<br>163,379<br>(211,840) | 43<br>2<br>1<br>(1) |
| Other expenses (Note 20) Impairment loss (Note 13)   | (275,608)<br>(37,524)                         | (2)                  | (161,461)<br>(156,000)                       | (1)<br>(1)          |
| Total non-operating income and expenses  | 21,067,007                                    | 124                  | 6,908,006                                    | 43                  |
| INCOME BEFORE INCOME TAX   | 21,259,875                                    | 125                  | 7,803,298                                    | 48                  |
| INCOME TAX EXPENSE (Notes 4 and 21)  | 79,054  |                      | 209,051                                      | 1                   |
| NET INCOME   | 21,180,821                                    | 125                  |  | 47 ntinued)         |

### TAIWAN CEMENT CORPORATION

### STATEMENTS OF COMPREHENSIVE INCOME FOR THE YEARS ENDED DECEMBER 31, 2018 AND 2017 (In Thousands of New Taiwan Dollars, Except Earnings Per Share)

|  | 2018                       |              | 2017                    |                        |
|--|----------------------------|--------------|-------------------------|------------------------|
|  | Amount                     | %            | Amount                  | %                      |
| OTHER COMPREHENSIVE INCOME (LOSS)  Items that will not be reclassified subsequently to profit or loss:                           |                            |              |                         |                        |
| Remeasurement of defined benefit plan (Note 18) Unrealized gain on investments in equity instruments at fair value through other | \$ 98,819                  | -            | \$ 70,524               | -                      |
| comprehensive income Share of other comprehensive income (loss) of   | 98,784                     | -            | -                       | -                      |
| subsidiaries and associates Income tax expense related to items that will not be reclassified subsequently to profit or loss     | 1,143,130                  | 7            | (26,903)                | -                      |
| (Note 21)  | (29,629)<br>1,311,104      | <u> </u>     | (11,989)<br>31,632      |                        |
| Items that may be reclassified subsequently to profit or loss:  Upraglized gain on available for sale financial                  |                            |              |                         |                        |
| Unrealized gain on available-for-sale financial assets   | -                          | -            | 1,370,286               | 9                      |
| Share of other comprehensive income (loss) of subsidiaries and associates  | (4,246,746)<br>(4,246,746) | (25)<br>(25) | 8,779,647<br>10,149,933 | <u>54</u><br><u>63</u> |
| Other comprehensive income (loss) for the year, net of income tax  | (2,935,642)                | <u>(18</u> ) | 10,181,565              | _63                    |
| TOTAL COMPREHENSIVE INCOME FOR THE YEAR  | \$ 18,245,179              | <u>107</u>   | \$ 17,775,812           | <u>110</u>             |
| EARNINGS PER SHARE (Note 22) Basic earnings per share Diluted earnings per share   | \$ 4.37<br>\$ 4.37         |              | \$ 1.82<br>\$ 1.82      |                        |

The accompanying notes are an integral part of the financial statements. (Concluded)

TAIWAN CEMENT CORPORATION
STATEMENTS OF CHANGES IN EQUITY
FOR THE YEARS ENDED DECEMBER 31, 2018 AND 20

|   |                         |                                       |                 |               | Equity Attr       | Equity Attributable to Shareholders of the Parent | the Parent    |                                      | ŏ                                      | Others   |                             |                 |                |
|---|-------------------------|---------------------------------------|-----------------|---------------|-------------------|---|---------------|--------------------------------------|--|--|-----------------------------|-----------------|----------------|
|   |                         |                                       |                 |               | Retained Earnings | Earnings  |               | Exchange Differences                 | Unrealized Gain/Loss<br>from           | Unrealized Gain/Loss<br>on Financial Assets at<br>Fair Value Through |                             |                 |                |
|   | Shar<br>Ordinary Shares | Share Capital<br>res Preferred Shares | Capital Surplus | LegalReserve  | Special Reserve   | Unappropriated<br>Earnings                        | Total         | on Translating Foreign<br>Operations | Available-for-sale<br>Financial Assets | Other Comprehensive<br>Income  | Cash Flow Hedges<br>Reserve | Treasury Shares | Total Equity   |
| BALANCE AT JANUARY 1, 2017  | \$ 36,921,759           | 49                                    | \$ 13,534,162   | \$ 13,389,264 | \$ 13,050,484     | \$ 20.897.776                                     | \$ 47.337.524 | \$ (2,233,617)                       | \$ 11,200,323                          | 49   | \$ 7,900                    | · ·             | \$ 106,768,051 |
| Appropriation of 2016 earnings<br>Cast Inserve<br>Cast dividents  |                         |                                       |                 | 635,845       |                   | (635,845)<br>(5,353,655)                          | (5,353,655)   |                                      |  |  |                             |                 |                |
| Net income for the year ended December 31, 2017   |                         |                                       |                 |               |                   | 7,594,247   | 7,594,247     |                                      | ٠                                      |  |                             |                 | 7,594,247      |
| Other comprehensive income (loss) for the year ended December 31, 2017, net of income tax   |                         |                                       |                 |               |                   | 31,632  | 31,632        | 1,443,142                            | 8,714,691                              |  | (7,900)                     | 1               | 10,181,565     |
| Total comprehensive income (loss) for the year ended December 31, 2017  |                         |                                       |                 |               |                   | 7,625,879   | 7.625,879     | 1,443,142                            | 8,714,691                              |  | (7,900)                     |                 | 17,775,812     |
| Difference between consideration received/paid and the carrying amount of subsidiaries* net assets during actual acquisitions and disposals |                         |                                       | (1,224,547)     |               |                   | (590,238)   | (590,238)     |                                      |  |  |                             |                 | (1,814,785)    |
| Changes in ownership interests of subsidiaries  | •                       | ٠                                     | 2,120           |               |                   |   |               | ,                                    | ٠                                      |  |                             |                 | 2,120          |
| Issuance of new shares for the acquisition of shares in subsidiaries  | 5,543,331               |                                       | 13,427,330      |               |                   |   |               |                                      |  |  |                             |                 | 18,970,661     |
| Reversal of special reserve recognized from asset disposals   |                         |                                       |                 |               | (849)             | 849   |               |                                      |  |  |                             |                 |                |
| BALANCE AT DECEMBER 31, 2017  | 42,465,090              |                                       | 25,739,065      | 14,025,109    | 13,049,635        | 21,944,766  | 49,019,510    | (790,475)                            | 19,915,014                             |  |                             |                 | 136,348,204    |
| Adjustments on initial application of IFRS 9  |                         |                                       |                 |               |                   | 654,005   | 654,005       |                                      | (19,915,014)                           | 24,158,871   |                             |                 | 4.897.862      |
| BALANCE AT JANU'ARY 1, 2018 AFTER THE IMPACT OF RETROSPECTIVE<br>APPLICATION OF IFRS 9  | 42,465,090              |                                       | 25,739,065      | 14,025,109    | 13,049,635        | 22.598,771  | 49.673.515    | (790.475)                            |  | 24,158,871   |                             |                 | 141.246.066    |
| Appropriation of 2017 earnings Legal reserve Cash dividends   |                         |                                       |                 | 759,425       |                   | (759,425)<br>(6,360,764)                          | (6,360,764)   |                                      |  |  |                             |                 | (6,360,764)    |
| Stock dividend  | 4,240,509               |                                       |                 |               |                   | (4,240,509)                                       | (4,240,509)   |                                      |  |  | ٠                           |                 |                |
| Net income for the year ended December 31, 2018   |                         |                                       |                 |               |                   | 21,180,821  | 21,180,821    |                                      |  |  |                             |                 | 21,180,821     |
| Other comprehensive income (loss) for the year ended December 31, 2018, net of income tax   |                         |                                       |                 |               |                   | 73.268  | 73,268        | (4.246.746)                          |  | 1.236.727  | 1,109                       | 1               | (2.935.642)    |
| Total comprehensive income (loss) for the year ended December 31, 2018  |                         |                                       |                 |               | 1                 | 21.254.089  | 21254,089     | (4,246,746)                          | 1                                      | 1,236,727  | 1,109                       |                 | 18.245.179     |
| Issuance of global depositary shares  | 4,375,000               |                                       | 12,339,355      |               |                   |   |               |                                      |  |  |                             |                 | 16,714,355     |
| Issuance of preference shares   |                         | 2,000,000                             | 7,973,907       |               |                   |   |               |                                      |  |  |                             |                 | 9,973,907      |
| Organization restructuring  |                         |                                       |                 | ,             |                   | (58,513)  | (58,513)      |                                      |  |  |                             |                 | (58,513)       |
| Difference between consideration and the earrying amount of subsidiaries' net assets during actual acquisitions or disposals                |                         |                                       | 466,755         |               |                   |   |               |                                      |  |  |                             |                 | 466,755        |
| Changes in ownership interests of subsidiaries  |                         |                                       | 41              |               |                   |   |               |                                      |  |  |                             |                 | 14             |
| Changes in capital surplus from investments in associates and joint ventures accounted for using the equity method                          |                         |                                       | (459)           |               |                   | (88)  | (68)          |                                      |  |  |                             |                 | (548)          |
| Disposal of investments in equity instrument at fair value through other comprehensive income   |                         |                                       |                 |               |                   | 1,321,032   | 1,321,032     |                                      |  | (1,321,032)  |                             |                 |                |
| Reversal of special reserve recognized from asset disposals   |                         |                                       |                 |               | (573)             | 573   |               |                                      |  |  |                             |                 |                |
| Equity components of issuance of convertible bonds  |                         |                                       | 1,308,070       |               |                   |   |               |                                      |  |  |                             |                 | 1,308,070      |
| Buy-back of treasury shares   | ,                       |                                       |                 | ,             |                   |   |               |                                      | ,                                      |  |                             | (218,166)       | (218,166)      |
| Compensation costs of treasury shares transferred to employees  | •                       |                                       | 45,448          |               | ,                 |   |               |                                      |  |  | ,                           |                 | 45,448         |
| Treasury shares transfer to employees   |                         |                                       | (35,941)        |               |                   |   | 1             |                                      |  |  |                             | 215,621         | 179,680        |
| BALANCE AT DECEMBER 31, 2018  | \$ 51,080,599           | \$ 2,000,000                          | \$ 47,836,241   | \$ 14,784,534 | \$ 13,049,062     | \$ 33,755,165                                     | \$ 61,588,761 | \$ (5,037,221)                       | ·                                      | \$ 24,074,566  | \$ 1,109                    | \$ (2,545)      | \$ 181,541,510 |

TAIWAN CEMENT CORPORATION

STATEMENTS OF CASH FLOWS FOR THE YEARS ENDED DECEMBER 31, 2018 AND 2017 (In Thousands of New Taiwan Dollars)

2018 2017 CASH FLOWS FROM OPERATING ACTIVITIES Income before income tax \$ 21,259,875 \$ 7,803,298 Adjustments for: 518,572 537,065 Depreciation expense Amortization expense 10,683 36,553 Net loss on fair value changes of financial assets designated as at fair value through profit or loss 1,117 Finance costs 481,032 211,840 Interest income (98,520)(6,102)Dividend income (381,051)(323,812)45,448 Compensation costs Share of profit of subsidiaries and associates (21,133,842)(6,950,116)Loss (gain) on disposal of property, plant and equipment, net 140,615 (142)19,519 Inventory write-downs 6,401 Impairment losses on non-financial assets 37,524 156,000 Loss on disposal of investment 745 Unrealized loss (gain) on foreign exchange, net 7,189 (4,067)Changes in operating assets and liabilities: Notes receivable and accounts receivable (705,416)(3,116)(49,150)101,352 Notes receivable and accounts receivable from related parties Inventories 272,624 (185,122)(1,291)27,302 Other current assets Net defined benefit asset (3,104)(827)Accounts payable 140,208 (217,514)238,681 Accounts payable to related parties 40,173 Other payables 271,773 (202,465)Other payables to related parties (21,409)(16,332)(4,118)Other current liabilities (678)Cash generated from operations 1,037,281 1,020,114 (214,394)(125,525)Income tax paid Net cash generated from operating activities 822,887 894,589 CASH FLOWS FROM INVESTING ACTIVITIES Purchases of financial assets at fair value through other comprehensive (72,086)Proceeds from disposal of financial assets at fair value through other comprehensive income 1,333 Disposals of available-for-sale financial assets 1,961 Proceeds from the return of capital upon investees' capital reduction of financial assets measured at cost 5,833

Acquisitions of investments accounted for by using the equity method

Net cash out flow on acquisition of subsidiaries

Proceeds from disposal of property, plant and equipment

Payments for property, plant and equipment

(1,329,584)

(32,268)

6,992 (Continued)

(4,127,150)

(67,877,447)

(612,055)

14,533

#### TAIWAN CEMENT CORPORATION

#### STATEMENTS OF CASH FLOWS FOR THE YEARS ENDED DECEMBER 31, 2018 AND 2017

(In Thousands of New Taiwan Dollars)

|  | 2018                 | 2017              |
|--|----------------------|-------------------|
| Payments for intangible assets   | \$ -                 | \$ -              |
| Decrease in other receivables from related parties                       | -                    | 20,000            |
| Increase in other non-current assets                                     | (290,041)            | (98,012)          |
| Interest received  | 73,789               | 6,003             |
| Dividends received   | 4,604,367            | 4,624,633         |
| Net cash generated from (used in) investing activities                   | (68,284,757)         | 3,205,558         |
| CASH FLOWS FROM FINANCING ACTIVITIES                                     |                      |                   |
| Increase in short-term loans   | 4,443,260            | 2,691,523         |
| Increase (decrease) in short-term bills payable                          | (399,340)            | 1,599,156         |
| Issuance of corporate bonds  | 24,223,847           | -                 |
| Increase in long-term loans  | 13,402,917           | -                 |
| Repayments of long-term loans  | (7,276,733)          | (3,360,000)       |
| Increase in other non-current liabilities                                | 226,435              | 6,237             |
| Dividends paid   | (6,360,764)          | (5,353,655)       |
| Issuance of shares for cash  | 26,688,262           | -                 |
| Treasury shares transferred to employees                                 | 179,680              | -                 |
| Payment for buyback of treasury shares                                   | (218,166)            | -                 |
| Partial disposal of interests in subsidiaries without a loss of control  | 2,189,786            | -                 |
| Interest paid  | (232,190)            | (202,220)         |
| Increase in long-term bills payable                                      | 21,478,716           |                   |
| Net cash generated from (used in) financing activities                   | 78,345,710           | (4,618,959)       |
| NET INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS                     | 10,883,840           | (518,812)         |
| CASH AND CASH EQUIVALENTS AT THE BEGINNING OF THE YEAR                   | 759,845              | 1,278,657         |
| CASH AND CASH EQUIVALENTS AT THE END OF THE YEAR                         | <u>\$ 11,643,685</u> | <u>\$ 759,845</u> |
| The accompanying notes are an integral part of the financial statements. |                      | (Concluded)       |

**6.6 Financial difficulties for the company and its affiliates:** None



## Review of financial position and financial performance and risk management

#### 7.1 Financial position

(expressed in NT\$ thousands)

|   |             |             | Difference  | ssed III WT 3 tilousullus |
|---|-------------|-------------|-------------|---------------------------|
| Year<br>Item                                      | AY 2018     | AY 2017     | Amount      | %                         |
| Current assets                                    | 110,380,695 | 92,719,914  | 17,660,781  | 19                        |
| Property, plant and equipment                     | 91,093,825  | 94,709,404  | (3,615,579) | (4)                       |
| Intangible assets                                 | 20,427,352  | 20,852,624  | (425,272)   | (2)                       |
| Other assets                                      | 122,183,246 | 64,275,107  | 57,908,139  | 90                        |
| Total assets                                      | 344,085,118 | 272,557,049 | 71,528,069  | 26                        |
| Current liabilities                               | 64,503,844  | 65,192,960  | (689,116)   | (1)                       |
| Non-current liabilities                           | 82,201,818  | 54,716,873  | 27,484,945  | 50                        |
| Total liabilities                                 | 146,705,662 | 119,909,833 | 26,795,829  | 22                        |
| Share capital                                     | 53,080,599  | 42,465,090  | 10,615,509  | 25                        |
| Capital surplus                                   | 47,836,241  | 25,739,065  | 22,097,176  | 86                        |
| Retained earnings                                 | 61,588,761  | 49,019,510  | 12,569,251  | 26                        |
| Other equity                                      | 19,038,454  | 19,124,539  | (86,085)    | 0                         |
| Equity attributed to owners of the parent company | 181,541,510 | 136,348,204 | 45,193,306  | 33                        |
| Non-control equity                                | 15,837,946  | 16,299,012  | (461,066)   | (3)                       |

#### Description:

#### 7.2 Financial performance

Comparison and analysis of financial performance

(expressed in NT\$ thousands)

| Item Year                         | AY 2018     | AY 2017    | Increased (Decreased) Amount | Change Ratio (%) |
|-----------------------------------|-------------|------------|------------------------------|------------------|
| Operating revenue                 | 124,594,602 | 98,311,776 | 26,282,826                   | 27               |
| Operating cost                    | 91,003,063  | 79,398,862 | 11,604,201                   | 15               |
| Gross profit                      | 33,591,539  | 18,912,914 | 14,678,625                   | 78               |
| Operating expenses                | 5,410,638   | 4,950,029  | 460,609                      | 9                |
| Profit from operations            | 28,180,901  | 13,962,885 | 14,218,016                   | 102              |
| Non-operating income and expenses | 2,363,520   | (138,226)  | 2,501,746                    | (1,810)          |
| Profit before income tax          | 30,544,421  | 13,824,659 | 16,719,762                   | 121              |
| Income tax expense                | 7,900,350   | 3,501,859  | 4,398,491                    | 126              |
| Net profit after tax              | 22,644,071  | 10,322,800 | 12,321,271                   | 119              |

#### Ratio change analysis:

#### 7.3 Cash flow

#### 1. Change in consolidated cash flow in the previous year

(expressed in NT\$ thousands)

| Beginning    | Annual net cash flow      | Annual cash     | Cash balance    | Remedy for cash shortage |                            |  |  |  |
|--------------|---------------------------|-----------------|-----------------|--------------------------|----------------------------|--|--|--|
| cash balance | from operating activities | inflow(outflow) | (insufficiency) | Investment plans         | Financial management plans |  |  |  |
| 26,331,218   | 22,150,720                | 22,176,671      | 48,507,889      | -                        | -                          |  |  |  |

Analysis of cash flow changes

#### 2. Liquidity analysis of the past two years:

| Year<br>Item             | AY 2018 | AY 2017 | Increased (Decreased) Ratio(%) |
|--------------------------|---------|---------|--------------------------------|
| Cash flow ratio          | 34.34   | 18.88   | 82                             |
| Cash flow adequacy ratio | 80.90   | 116.16  | (30)                           |
| Cash reinvestment ratio  | 3.68    | 1.57    | 134                            |

#### Analysis of ratio change

- (1) Increase in the cash flow ratio: It is mainly because of the increase in the inflow of net cash from operating activities of 2018.
- (2) Decrease in the cash flow adequacy ratio: Mainly because of the increase in long-term investments in 2018.

<sup>1.</sup> Increase in other assets and total assets: mainly because of the increase in long-term investment with the equity method.

<sup>2.</sup> Increase in non-current liabilities and total liabilities: mainly because of the increase in long-term bill payables and the corporate bonds.

<sup>3.</sup> Changes of share capital, capital reserve, and the equity attributed to the owner of parent company: mainly because of the new shares issued with premiums for capital increase, and the increase of profits.

<sup>1.</sup> Operating revenue, gross profit, profit from operations, profit before income tax and net profit after tax increased mainly because of the profit increase of the cement sector in 2018.

<sup>2.</sup> Non-operating revenue increased mainly because of the gains of investment recognized with the equity method, dividend income and the decrease in exchange loss in 2018.

<sup>3.</sup> Income tax expenses increased because of the increase in the net profit before tax in 2018.

<sup>(1)</sup>Operating activities: Mainly because of the profit from operations. (2)Investing activities: Mainly because of increase in long-term investments and fixed asset procurement. (3) Financing activities: Mainly capital injection by cash and etc.

<sup>2.</sup> Remedies for cash shortages and improvements for low liquidity: NA

<sup>(3)</sup> Increase in the cash reinvestment ratio: Mainly because of the increase in the inflow of net cash from the operating activities of 2018.

#### 3. Analysis of cash liquidity in the next year

(expressed in NT\$ thousands)

| Beginning<br>cash balance | Annual net cash flow      | Annual cash     | Cash balance    | Remedy for cash shortage |                            |  |  |  |
|---------------------------|---------------------------|-----------------|-----------------|--------------------------|----------------------------|--|--|--|
| cash balance              | from operating activities | inflow(outflow) | (insufficiency) | Investment plans         | Financial management plans |  |  |  |
| 48,507,889                | 32,097,000                | 28,425,111      | 76,933,000      | -                        | -                          |  |  |  |

Analysis of cash liquidity in the next year

- (1) Operating activities: Mainly from the profit of business operation. (2) Investing activities: Mainly from procurement of fixed asset.
- (3) Financing activities: Mainly from cash dividends release.

### 7.4 Influence of major capital expenditure on financial position and operation in recent years

Other than the routine capital expenditure, the material capital expenditure for projects include:

(1)In support of the government's green energy policy, we will invest in renewable energy projects, including solar energy and wind power through TCC Green Energy Corporation.

(2) The subsidiary, Ta-Ho Maritime Corporation, bought two new types of energy-saving ships; it is expected to replace the four old ships with the new ones gradually.

(3)The subsidiary, Taiwan Prosperity Chemical Corporation has completed the first renovation of the boilers, to meet the emission standards for the combustion equipment. The renovation for the second set of boiler is expected to be completed in 2019

(4) To accommodate the Government's policies, the environmental equipment is improved continuously.

In 2018, the capital expenses were totaled as NT\$ 4.3 billion; these are expected to increase the revenue and save costs.

## 7.5 Re-investment policies, main causes of profit or loss, and improvement plans in the previous year, and investment plans in the next year

(1)The operations of International CSRC Investment Holdings Co., Ltd. in India and China have been on the track of growth. To expand internationally, the capital injection was conducted in October 2018. The consolidated shareholdings of the Company has increased to 19.19%, and in 2018, NT\$ 57 million was recognized as investment gain.

(2)Being positive to the potential of lithium batteries, the Company invested E-One Moli Energy Corporate additionally, and the consolidated shareholdings of the Company has increased to 29.95%; in 2018, NT\$ 52 million was recognized as investment gain.

(3)To promote globalization, board of direcitors of the Company approved to establish Taiwan Cement (Dutch) Holdings B.V. in Oct. 2018. After that Taiwan Cement (Dutch) Holdings B.V. set up a joint venture, Dutch OYAK TCC Holdings B.V, with Turkish company OYAK which the Company has obtained 40% of equity in cement project within Turkey and other locations indirectly. In 2018 financial statement, the Company recognized NT\$ 3 million as investment loss of Taiwan Cement (Dutch) Holdings B.V.

#### 7.6 Risk analysis and assessment

## 7.6.1 Influence on income of changes in interest rate and exchange rate volatility and inflation, and future countermeasures

(1)For interest rates, as the growth momentum of the global economics is weakening, the Sino-US trading tension continues, the economics in China moderates, and the main economies have signaled the accommodative stance for the monetary policies, it is expected no major movement of the interest rates for NTD, USD, and CNY this year. The interest rate volatility of Taiwan, USA, and mainland China, will affect the income from interest of cash equivalent and the expense for the interest from liabilities. Apart from constantly keeping track on the changes and trends of interest rate and timely assessing potential interest risks, we will continue to observe the market status to adjust the liability position or fixed interest rate for hedging as necessary. (2)Exchange rate: Influenced mainly by USD, CNY, and EUR, we

(2)Exchange rate: Influenced mainly by USD, CNY, and EUR, we have adopted net position natural hedging and constantly kept track on exchange rate volatility to make timely exchange, forward exchange, or adjustment of foreign currency debts for forex hedging. These hedging methods can help reduce exchange rate risk, and we will review such methods based on the market status and hedging cost as necessary. Overall, exchange rate volatility has comparatively limited influence on organizational operations.

(3)Inflation: Looking out into 2019 based on the latest statistics, the weaken global economic expansion will bring raw material demands, global commodity prices, such as the global oil price, to be lower than 2018. The latest statistics show that CPI in the first three months of 2019 rose by 0.56% in Taiwan, 1.9% in the USA, and 2.3% in mainland China, all present a moderate inflation. According to the 2019 outlook of the Directorate General of Budget, Accounting and Statistics (DBGAS), Executive Yuan, the annual CPI growth will be 0.73%, suggesting that inflation will bring limited influence to our annual influence.

7.6.2 Policies, main reason(s) for profits or losses, and future countermeasures for engaging in high-risk and high-leverage investments, lending, offering guarantees and endorsements, and derivatives investments:

(1) Neither the company nor our subsidiaries have engaged in high-risk and high-leverage investments in recent years.

(2)Either the company or our subsidiaries offer lending, endorsement, and guarantees only to subsidiaries or affiliates. Apart from maintaining a normal financial status, we abide by related regulations of the Securities and Futures Bureau (SFB) and our Procedures for Loaning of Funds to Others and Procedures for Endorsements/Guarantees. Therefore, losses will hardly happen.

(3)Both the Company and our subsidiaries engage in derivatives transactions for hedging risks in exchange rate and the cost of raw materials required for operations. We also follow our Procedures for the Acquisition and Disposal of Assets without engaging in any non-hedging transactions.

#### 7.6.3 Future R&D projects and planned R&D funds

TCC has never suspend any research and development. In 2018, TCC continued investing and even spent more in the calcium looping program, and completed the technology reform for the second generation equipment in plants, and continued to expend the trial of CO2 capture plant. Currently, in order to continue the test of CO2 capture, the BOD of TCC is planning to construct the demo plant for the next phase, and expand the Microalgal Cultivation program to recycle CO2. The plan is to assess the feasibility of expanding the microalgal cultivation in Ho-Ping Power Plant, and to approve the capex budget of about NT\$ 600 million, for promoting the design and verification of reliability for the Amplifying System for Calcium Looping Carbon Capture Technology. The goal is to launch the operation of commercialized system to validate the business model in 2023, as an active effort of reducing carbon for our Earth.

(1)Future planning of calcium looping technology: to increase the holistic effect of the calcium looping technology, the emphasis will be on enhancing the carbonatation conversion rate, reducing the mole fraction of Ca to C and the energy consumption. Also the 30MW demo plant will be designed and planned as a follow up, to execute the verification of the new generation of capture technology including integrated steam hydration and multi-stage cyclone, as well as the R&D of amplifying technology, technology of regenerating highly pure light-weighted carbonated calcium from de-active adsorbent, as well as other tasks such as detail design and procurement specs for the demo CO2 capture system with calcium looping for 30MW grade, planning of plant construction, and effects to environment.

(2)Microalgae culture technology: This project aims to expand the scope of biological carbon fixation, including the review of biological carbon fixation using microalgae and microorganisms, energy utilization, and development of value-added products. A microalgae culture for carbon fixation experiment will be conducted at the flue stakes to develop the technology to enhance the carbon fixation efficiency of algae using bioactive substances. The second-generation bag culture system will be experimented to test and demonstrate microalgae culture for

carbon fixation. Therefore, we will invest NT\$5 million (excl. sales tax) in 2019 to develop the high-efficiency microalgae culture model, study outdoor culture of carbon fixation microalgae, assess the biological carbon fixation procedures, and investigate the fermentation of oleaginous microorganisms.

## 7.6.4 Influence of major policies and legal changes at home or abroad on finance and operations and countermeasures

(1) The amendments to the Labor Standard Act released on January 31, 2018, are mainly responding the suggestions from the society including the adjustment of restriction to the extended working hours, arrangement of official holidays, and annual leaves after the new system of two-day-off per week. To cope the relevant laws and regulations with the practice of labor-management, The Company continuously strives to reach agreement with the employees, to reasonably adjust the intervals between shifts to meet the demands at the sites while respect the mental and physical health of employees, for the purpose of reducing the labor-management disputes by a better system.

(2) The China Government has enforced "Environmental Protection Tax Act" and the "Regulation on the Implementation of the Environmental Protection Tax Act" on January 1, 2018. The environmental protection tax has been levied since the same year. The strict enforcement has create an intensive pressure to some small and medium size cement manufacturers. The Company, on the other had, stay true to the philosophy of sustainable management: "Environmental protection is not a cost but a responsibility." Therefore, we have invested certain degree of funds to the cement subsidiaries to construct the related pollution-preventive equipment and technical reforms way before the promulgation of these laws and regulations. Currently, the emission indicators in these plants outperform the local standards, which in turn, accentuate the competitive advantage of TCC in the local environment, and thus a great positive effect is generated for TCC.

## 7.6.5 Influence of changes in technology and the industry on finance and operations and countermeasures

To corresponding the coming of Industry 4.0 era, TCC is promoting the optimization of internal management system, whose four major focuses including the cloud mobility, big data, IoT, and intelligent machines. The optimization project that integrates the economics, environment, society, and risk management, shifts from "objective management" to "behavior management," so that the personnel and managers may accurately judge and operate at the earliest time, to improve their outcomes of works and efficiency. The outcome of this project include the construction of the TCC war room system, to grasp the information of production and operation information of each plant, in order to

forecast any risk; as well as monitor the carbon emission data of each cement plants for continuous control and reduction. The bearing shell warning system is installed to monitor the temperature of each puller bearing shell in rotary kilns. The model is made through the big data of kiln temperature, to detect irregularly high temperature zones of kiln temperature real-time, and to warn actively for early actions taken by the operators to protect the rotary kilns. With the modern monitoring system and internet technologies, six major environmental indicators are under continual monitoring, and a complete database is built for the timeliness of management. In the future, TCC will promote the intelligent diagnosis mechanism for equipment. Through the intelligent database, the data are analyzed to see if any irregular occurs, and the possible irregulars are forecasted to alert the inspectors deal with them.

Both Taiwan and China have made the collaborative waste disposal with cement kilns as a national policy. TCC has more than 30-year experience in this regard. With the research laboratory recognized with the national TAF certificate, we will be able to expand the scope for more solid and hazardous wastes. In 2019, TCC was awarded for the largest project of collaborative solid and hazardous waste disposal with cement kilns in China, with 330,000 tonnes of annual disposal. In the future, TCC will make profits while contributing the national and social benefits, to bring the largest effect for the environmental protection as a circular economy in the cement industry, and act as the leader in the area of circular economy.

### 7.6.6 Influence of market presence change on crisis management and countermeasures

Like the power, petrochemical, and steelmaking industries, the cement industry has been stereotyped by the public as an industry of high energy consumption and high carbon emission. Upholding the "environmental protection as a responsibility not cost" concept, we endeavor to strictly control emissions, wastewater, and noise of all plants to meet or even exceed the latest environmental standards. With the high temperature operation at 1,300°C of the cement kiln, we began collaborative processing under government supervision in 1983 for waste from coal-fired power plants, sludge from water purification plants, construction waste, and so on, and the waste solvents, fluorspar, and so on from science parks. In recent years, our technology in collaborative waste processing has improved. In 2018, the alternative material rate of solid waste in cement manufacture increased to 195.9kg per tonnes. The performance in the waste treatment and circular economy of TCC has won the "two star grade for outstanding company in the evaluation of waste resources and circular economy" (the highest level) in the evaluation of waste resources and circular economy conducted by the Environmental Protection Administration, Executive Yuan. The cement produced in the Suao Plant (Type I cement gold grade environmental cement, Type I low-alkaline, Type II cement silver grade

environmental cement) and the Ho-Ping Plant (Type I I cement gold grade environmental cement) was also awarded with the certificate of environmental label for the cement products from the Environmental Protection Administration. Furthermore, as a skillful high-temperature work operator, we entered the environmental industry in 1992. Currently, our investee Onyx Ta-Ho Environmental Services Co., Ltd. operates eight refuse incineration plants and nine water treatment plants in Taiwan to provide services for up to 29% of the popluation and generate electricity up to 1022 MWh.

In 2017, we began to use a brand-new corporate logo combining the implications of the Möbiusband strip and the infinity symbol in Mathematics to present TCC's new image: circulation and sustainability. The new logo also symbolizes the spontaneity to communicate with society and the public. According to TCC Chairman Chang An-Ping: "In addition to a cement manufacturer and supplier, we are a green business handling the complex relationship between nature and human beings." From environmental work including sewage treatment, waste disposal, power generation through refuse incineration, energy conservation and carbon emission of cement plants, and collaborative processing of industrial waste with cement kilns; to winning the R&D 100 Awards for carbon capture and the National Innovation Award for entering the biotechnology and cosmetics industries with astaxanthin, our efforts in "environmental value change and organizational transformation" have increased our visibility in Taiwan and across the world. From self-practice of "pollution reduction" to "waste to resources" and then "environmental service provision", and eventually to the "green value chain", we have built a circular economic system featuring "integrated environment services". This system will be our competitive tool in mainland China and even the global markets.

Besides, the Group has been actively contributing to area of green energy, including the solar energy, wind power, and geothermal power generation. Except the Phase 1 2MW solar energy power plant at the old plant of TCC Chemical Plant in Chang-Bin Industrial Zone that started production in the first half of 2018, other projects include the Phase 2 10.08MW solar energy power plant (under construction), Phase 1 7.2MW wind power plant at the old plant of TCC Chemical Plant that already concluded a power-selling agreement with TPC, a 14.4MW wind power plant in Fang-Yuan Country, Changhua County, the new warehouse of CSRC in Kaohsiung (800KW) and the Phase 1 roof-top solar energy of E-One plant, the Phase 2 14.4MW wind power plant at the old plant of TCC Chemical Plant under the Environmental Impact Assessment, the integration of fishery and power generation in Chiayi (under the review of the business plan for agricultural tolerance), the geophysical survey completed primarily, and the Wan-Rong geothermal project in Hualien processing the tribal meetings; also TCC has found several other site for further positioning. Through the input to the energy transformation, we can contribute to the environmental sustainability.

### 7.6.7 Expected benefits and potential risks of mergers and acquisitions: NA

### 7.6.8 Expected benefits and potential risks of factory expansion and countermeasures

To increase the clinker and cement capacity in mainland China and full up the vacancy between the Yingde Plant in Guangong and the Hunnan Plant, we have established a clinker and cement production line in Shaoguan, Guangdong Province. We have also invested in a waste processing project there. The Shaoguan Plant marks our new cement plant project with a waste processing facility right at the beginning of planning and design. The Shaoguan Plant is equipped with a clinker and cement production line with an annual capacity of 2 million tonnes. This will be our forward command center for expansion to northern Guangdong. Currently the base piles are under construction. As the procedures and lead time of the mining permit are time consuming, operations will be postponed to Q3 of 2020.

Also, to accommodate the Government's vision of non-nuclear home in 2025, and the goal of generating 20% of power with renewable energies, as the leader in the conventional industries, TCC has actively input the development and investment of renewable energies with the pace of the Government's energy transformation. Except the Phase 1 2MW solar energy power plant at the old plant of TCC Chemical Plant in Chang-Bin Industrial Zone that started production in the first half of 2018, other projects include the Phase 2 10.08MW solar energy power plant (under construction), Phase 1 7.2MW wind power plant at the old plant of TCC Chemical Plant that already conclude a power-selling agreement with TPC, a 14.4MW wind power plant in Fang-Yuan Country, Changhua County, the new warehouse of CSRC in Kaohsiung (800KW) and the Phase 1 roof-top solar energy of E-One plant, the Phase 2 14.4MW wind power plant at the old plant of TCC Chemical Plant under the Environmental Impact Assessment, the integration of fishery and power generation in Chiayi (under the review of the business plan for agricultural tolerance). They all are expected to bring stable revenue for the Group.

### 7.6.9 Potential risk of procurement or sales centralization and acquisitions: NA

7.6.10 Influence and potential risk of the massive transaction or conversion of shares by directors, supervisors or dominant shareholders holding over 10% of the stakes and countermeasures: NA

7.6.11 Influence and risks of management change and countermeasures: NA

#### 7.6.12 Litigious or non-litigious events

Major litigious events, non-litigious events, or administrative remedies with confirmed verdicts in recent years and by the date of report publication or in progress by the date of report publication of the company: NA.

Major litigious events, non-litigious events, or administrative remedies with confirmed verdicts in recent years and by the date of report publication or in progress by the date of report publication of directors, presidents, actual responsible persons, and shareholders holding over 10% of the stakes; subsidiaries; and affiliates, with results that may cause significant impact to the rights and interests of shareholders or the stock price.

(1

#### **Company Name** Ta-Ho RSEA Environment Co., Ltd. Fact in dispute By the arbitration, for the "Contract of Waste Incineration Plant Building and Operating and Waste Incineration Commission by the Public and Private Institutions Encouraged by the Yunlin Country Government" (a BOO contract) between Ta-Ho RSEA Environment Co., Ltd. and the Yunlin Country Government, the Yunlin Country Government shall pay NT\$ 1,500,000,000 to Ta-Ho RSEA Environment Co., Ltd. before November 30, 2008, and the remaining payment NT\$ 1,440,000,000 shall be made before June 30, 2009; Ta-Ho RSEA Environment Co., Ltd. shall transfer the assets to the Yunlin Country Government Contract value (NT\$): about NT\$ 2,940,000,000 Trial start date Date of arbitration decision: October 1, 2008 Parties concerned Yunlin County Government vs. Ta-Ho RSEA Fnvironment Co., Ltd. Status Ta-Ho RSEA Environment Co., Ltd. has applied the compulsory enforcement for all the claims determined by the arbitration. Currently among the claims, NT\$ 3,540,000,000 (tax included)

including both principal and interests, has been

received. An other dispute regarding the interest

of NT\$270,000,000 is pending for the appealing

procedure. Shall Ta-Ho RSEA Environment Co.,

Ltd. is confirmed as the winner, the compensa-

tion will be executed accordingly.

| Company Name                            | Ta-Ho RSEA Environment Co., Ltd.  |
|---|---|
| Fact in dispute                         | As stipulated by Article 10.5 of the "Contract of Waste Incineration Plant Building and Operating and Waste Incineration Commission by the Public and Private Institutions Encouraged by the Yunlin Country Government" (BOO Contract) entered by and between Ta-Ho RSEA Environment Co., Ltd. and the Yunlin Country Government (Yunlin Government), once the BOO Contract is terminated due to reasons attributable to Yunlin Government, all assets of the Linnei Incineration Plant (the Plant) shall be transferred back to Yunlin Government. Nevertheless, Yunlin Government has refused to receive assets of the Plant in accordance with the BOO Contract regardless of several attempts to transfer made by Ta-Ho RSEA Environment Co., Ltd. As a result, Ta-Ho RSEA Environment Co., Ltd. has continuously operated and maintained the Plant on behalf of Yunlin Government ever since the BOO Contract was terminated on October 30, 2006. By the end of December 31, 2017, operating costs of the Plant amount to NT\$ 137,524,000 had been incurred.  Compensation amount to NT\$ 2.9 billion (did not include sales tax) was awarded to Ta-Ho RSEA Environment Co., Ltd. According to the decision entered by an arbitration between Ta-Ho RSEA Environment Co., Ltd. and Yunlin Government. Based on the interpretation of Revenue Service Bureau of Yunlin County Government, sales tax shall be levied on that compensation awarded, which is amounted to NT\$ 165,591,000. |
| Contract value (NT\$):                  | Approximately 303,000,000   |
| Trial/administrative appeal start date: | Application submitted to arbitration on February 15, 2019   |
| Parties concerned                       | Between Ta-Ho RSEA Environment Co., Ltd. and Yunlin County Government   |
| Status                                  | The arbitration court was formed in April, 2019. First appearance has yet been notified by the Arbitration Association.   |
| (2)                                     |   |

| Company Name                            | Ho-Ping Power Company  |
|---|--|
| Fact in dispute                         | The Fair Trade Commission fined Ho-Ping Power Company a sum of NT\$1,350 million for violation of Article 14 of the Fair Trade Act.  |
| Contract value (NT\$):                  | 1,350,000,000  |
| Trial/administrative appeal start date: | April 2013   |
| Parties concerned                       | Ho-Ping Power Company vs. Fair Trade Commission  |
| Status                                  | In the second penalty, the Fair Trade Commission changed the fine of the Ho-Ping Power Company to NT\$1,320,000,000. The Taiwan Supreme Administrative Court denied the original decision (Ho-Ping Power Company won the case) and returned the case to the Taipei High Administrative Court on June 30, 2015. The Taipei High Administrative Court made a decision on May 25, 2017 to drop the concerted effort charge in the previous decision and the administrative appeal and maintained our victory. However, the other parties appealed. For the part appealed by TPC, the Taiwan Supreme Administrative Court has ruled "appeal dismissal" on September 6, 2018. For the other part appealed by the Fair Trade Commission of the same case, the Taiwan Supreme Administrative Court denied the original decision and returned the case to the Taipei High Administrative Court. Now it is pending in the Taipei High Administrative Court. |

| Company Name                            | Ho-Ping Power Company   |
|---|---|
| Fact in dispute                         | The Taiwan Power Co., Ltd (TPC or Taipower) filed a lawsuit to the Taipei High Administrative Court, claiming a payment for a least NT\$ 5.2 billion; with the interests, the claim expanded to NT\$ 10.7 billion; also another civil lawsuit was filed by TPC to the Taipei District Court, claiming NT\$ 5.5 billion. |
| Contract value (NT\$):                  | Totaling about 16 billion.  |
| Trial/administrative appeal start date: | September 2015  |
| Parties concerned                       | Ho-Ping Power Company vs. Taiwan Power Company  |

| Company Name | Ho-Ping Power Company  |
|--------------|--|
| Status       | 1.TPC filed two trials for this case including: (1)In September 2015 Ho-Ping Power Company received a declaration submitted to the Taipei High Administrative Court by TPC, which then referred the whole case to the Civil Court of the Taipei District Court in February 2017; the claim was expanded to NT\$ 10,760,000,000. TPC has paid the judgement fee, and the case is in progress by the Taipei District Court. (2)In addition, In November 2015 Ho-Ping Power Company a declaration filed by TPC to the Taipei District Court for a civil trial on the same administrative trail. The case is in progress by the Taipei District Court. 2.TPC sued other IPPs with similar reasons in sperate cases. Both IPPs lost the case as per the court decision made on 2018. Ho-Ping Power Company had reported the results to the jurisdiction court in order to win the case. 3.Ho-Ping Power Company believes the probability of case to be found is low, and thus estimated no relevant losses. |

#### 7.6.13 Other Material Risks

(1) Conducting environmental protections and management of climate change risks with the strategic mindset of sustainable development and circular economy

Intergovernmental Panel on Climate Change (IPCC) has listed the national energy policy, comprehensive management of wastes, and comprehensive management of water resources as the key points of coping measures to the climate in its Climate Change 2007: Synthesis Report. Refining and manufacturing of raw materials creates significant energy consumption and greenhouse gas emission. According to the statistics of IEA and IPCC, the CO2 emissions generated from the material industries take about 65% of the emission of the whole industry; and 19% coming from the cement industry. If a circular economy mode reusing resources can be created in manufacturing industries, that reduces the refining of materials but replaces with the wastes, a great reduction of carbon will be achieve and lower the emissions of the greenhouse gas (Allwood and Cullen, 2012).

TCC deeply has realized the impacts from climate changes, and thus promoted the "one-stop environmental protection policy," i.e. "green value chain strategy." The cement plants are the core. From the well-executed environmental protection of mines and cement plants, the Group integrates the internal resources, to assist the central and local government, and the enterprises to re-use the wastes. The past records of the waste treatment have proved that the cement kilns can be applied to the circular economy, and achieve the recycle of resources. Applied to adopt the impacts from climate changes.

1. Management of Policies for Climate Change Risks

Compliance, accommodation, and promotion of related laws and regulations: a dedicated unit in the Company continuously participates the topics of climate changes and adoption by the Government, as well as the new international progress of these topics. On one hand, TCC collaborates with research units to continuously develop and promote the carbon capture and reuse of CO2. On the other hand, we comply with the Government's laws and regulations, while offering suggestions, to assist the central and local governments fix the bottlenecks in the regrads of waste and reuse of resources.

Management Execution: the ISO 50001 Energy Management System has been established. Through ISO 50001, the Company continuously seeking the improvement of performance for the utilization of energy, and enhance the energy management through the energy baseline survey, proposal of improvement plan, and approaches for establishing the management system. From 2007, TCC started to inventory the greenhouse gas, and has obtained the ISO 14064 – Greenhouse Gas Accounting and Verification from SGS. Through the outcomes of the inventory, the targets of reduction and priorities are determined, as well as the results of reduction can be confirmed. From Q2 2019, the policy that links the carbon emissions to bonus will be implemented, to urge each cement plant strive to reduce the carbon emissions per product unit.

Low-carbon products: cement is a major construction material, and it has to be made from milled and kilned of various mines. Other than the vertical well extraction that is environmental symbiosis to reduce impacts to the environment, TCC actively researches the means of resource reuse to replace the natural materials and raw materials. This not only reduces the consumption of the cement products, but also the emissions of the greenhouse gas. In 2018, the BS8001 circular economy assessment and certification were introduced. The Company has been certified as "the Optimal" by SGS. This promotes the enhancement of the efficiency of resources utilization, and has obtained the good quality certificate for cement.

Sustainable Ecology: the Dr. Cecilia Koo Botanic Conservation and Environmental Protection Development Foundation" was established in January 2007. The key task of the foundation is the establishment of the Dr. Cecilia Koo Botanic Conservation Center (KBCC) in Kaoshu Country, Pingtung County. The mission of KBCC is to conserve tropical and sub-tropical plants and maintain rich biodiversity on earth. This is an implementation of the philosophy of TCC, namely sustainable development, environmental conservation, and adoption of climate changes.

2.Identifications of Risks and Opportunities of Climate Change Climate Change Risks

Laws and policy aspect: under the related policies of energy and the circular economy of the central government, TCC stay true as an eco-solution provider, to support all works favorable to the mitigation and adoption of climate changes, and we expect ourselves to assist the enterprises and local governments by tion environment, to ensure the security of the system, informaproviding mitigation for the impacts to the environment.

Enterprise risk management aspect:

The global warming results the irregular climates; the frequency system are protected. of extreme climates increases, and thus results in the suspension of production and endangered lives and properties of employees. The internal contingency plans and the procedures of risk management of TCC regularly review these disasters and have the countermeasures in place. We even integrate the adoption of climate changes into the plant design(e.g. the coal warehouse in Ho-Ping Power Plant) as the control of risks.

Approach of Product Management:

Lower the energy consumption of per product unit through the systematic management. Also regarding the product development, the alternative materials and fuels from the recycled resources are used to enhance the efficiency of resources, while reducing carbon, lowering the risk of material shortage resulted from the climate changes. The recycled resources applied in per cement unit in 2018 has increased to 19.59%. (18.86% for 2017) Climate Change Opportunities

Aspect of International Issues and Policies/Regulations: except that TCC Group continuously implement the inventory and reduction of emissions, we are also the first one proposing the green value chain and supply chain, to correspond the governmental energy and circular economy policies. We participate the related research, such as CCUS, creating the opportunities for corresponding the climate changes, and join various resource reuse and renewable energy protects of the Government.

Aspect of Operation and Management: not only seeking the forever growth, and the active collaborations with the Government in the regards of environmental protection, TCC also keeps on educating the employees and communicating with the stakeholders to have them also contribute to the adoption of climate changes.

Aspect of Product Management: improving the energy efficiency and the completeness of the disclosure for carbon emission. We seek not only the better quality of products, but also the awareness of the consumers to our efforts for the energy-saving, and the adoption of climate changes during the process of producing low-carbon cement.

#### (2) Information Security

Facing the challenge of commercial competition and the globalization, the information safety and the protection of operational information are the important corner stones for the organizational sustainable development and maintenance of the core competitiveness. To ensure the stability, security, and availability of the information system, TCC strives to enhance the security management mechanism of information and the guarding capability, by establishing the secure and reliable digital opera tion, and the network, so that the important information assets of the Company and the normal operation of the information

The direction and plans for the enhancement of the information security of the Company are as the following:

| <b>.</b>   | Management System for Information Security |                                      |                                     |  |                                  |  |                                      |                                       |                                 |   |  |  |                         |   |                                      |   |                              |                                   |   |                                   |                                |   |
|--|--|--------------------------------------|-------------------------------------|--|----------------------------------|--|--------------------------------------|---------------------------------------|---------------------------------|---|--|--|-------------------------|---|--------------------------------------|---|------------------------------|-----------------------------------|---|-----------------------------------|--------------------------------|---|
| Policy Procedure                                   | Viru                                       | tement<br>us Conti<br>nageme         | rol                                 |  | Use d<br>Irveilla<br>Syster      | ance   |                                      | Log<br>Adminis<br>and Op              | strator                         |   | Sec  | ement on<br>nation<br>urity<br>dents                       | of                      | Wea                                       | ort of th<br>akness c<br>ecurity     |   | Ма                           | Asset<br>nagem                    | nent  | t                                 | mplianc<br>he Secu<br>icy Star | urity   |
|  |  |                                      |                                     |  |                                  |  | Enh                                  | anceme                                | ent of                          | Techn   | ical Co  | ntrol o  | ver Inf                 | forma                                     | tion Se                              | curity                                  | /                            |                                   |   |                                   |                                |   |
| Direction o  | Secu<br>Con<br>ov<br>Term<br>Equip         | ntrol<br>ver<br>ninal                |                                     | urity of<br>Mails                            | D                                | rotection<br>for<br>ocumen<br>ransmis-<br>sion | t                                    | Contr<br>over Acc<br>of Shar<br>Files | cess                            |   |  | C  | ontrol<br>over<br>abase | 0   | Control<br>over<br>peratin<br>System | g                                       | Manag<br>ment<br>Audit Lo    | of                                | Prote<br>of Inte<br>Secu                        | ernet                             | Ph                             | ontrol<br>over<br>lysical<br>ccurity                  |
| Direction of Control and Implementation Approaches | Control over portable media                | Filter for Spam and Phishing E-Mails | Documentation and Audit for E-Mails | Encryption Mechanism for Secure Transmission | Control over the Access to Files | Encryption of Files or Folders                 | Firewalls for WAF Application System | Scanning Weakness                     | Encryption of Critical Database | Software Update Mechanism of Operating System | Sandbox Filter and Protection of Anti-Virus Software | Mechanism of Backup and Recovery, and Drills for Disasters | Management of Logs      | Security Information and Incident Control | Intrusion Detection and Defense      | Security Control over Wireless Networks | Control of Internet Visiting | Mechanism for VPN Remote Visiting | Defense Management for Integration of Firewalls | Management of Real-time Messenger | Monitoring Online Behavior     | Security of the Physical Environment in Machine Rooms |

Except the backup of data and remote backup of system, the daily business continuity of the Company also includes the recovery of the core business from disasters, which an annual drill is required, to ensure the effectiveness of the backup procedure and data, for the purpose of preventing the risks of disasters, ensuring the seamless continuation of information system, as the foundation of sustainable operation of TCC.

#### 7.7 Other material information: NA

### 8 Special notes

#### 8.1 Information of affiliates

The scope of business covered by all TCC affiliates include the generation of electricity and the manufacture and sales of and chemicals; land transportation; sea transportation; manufacture and sales of fire-retardant materials; the undertaking of environmental control projects, the manufacture, service and sales of related products and equipment, and the undertaking of waste disposal; the design, production, installation, service, sales, and consultation service of information products; outsourcing constructors to build public housing and the lease and sales of office buildings; and coal-fired generation.

The connection of affiliates is: TCC manufactures cement, Taiwan Transport & Storage Corporation offers land transaction within Taiwan, Ta-Ho Maritime Corporation and its subsidiaries provides sea transportation and land transportation in mainland China, TCC Information Systems Corporation takes charge of data processing, and Kuan-Ho Refractories Industry Corporation supplies fire-retardant materials. Transactions among affiliates are governed by contracts or purchase orders to specify the rights and obligations of each party. Prices are determined based on the market price. The price of products without a price is set upon a fair principle.

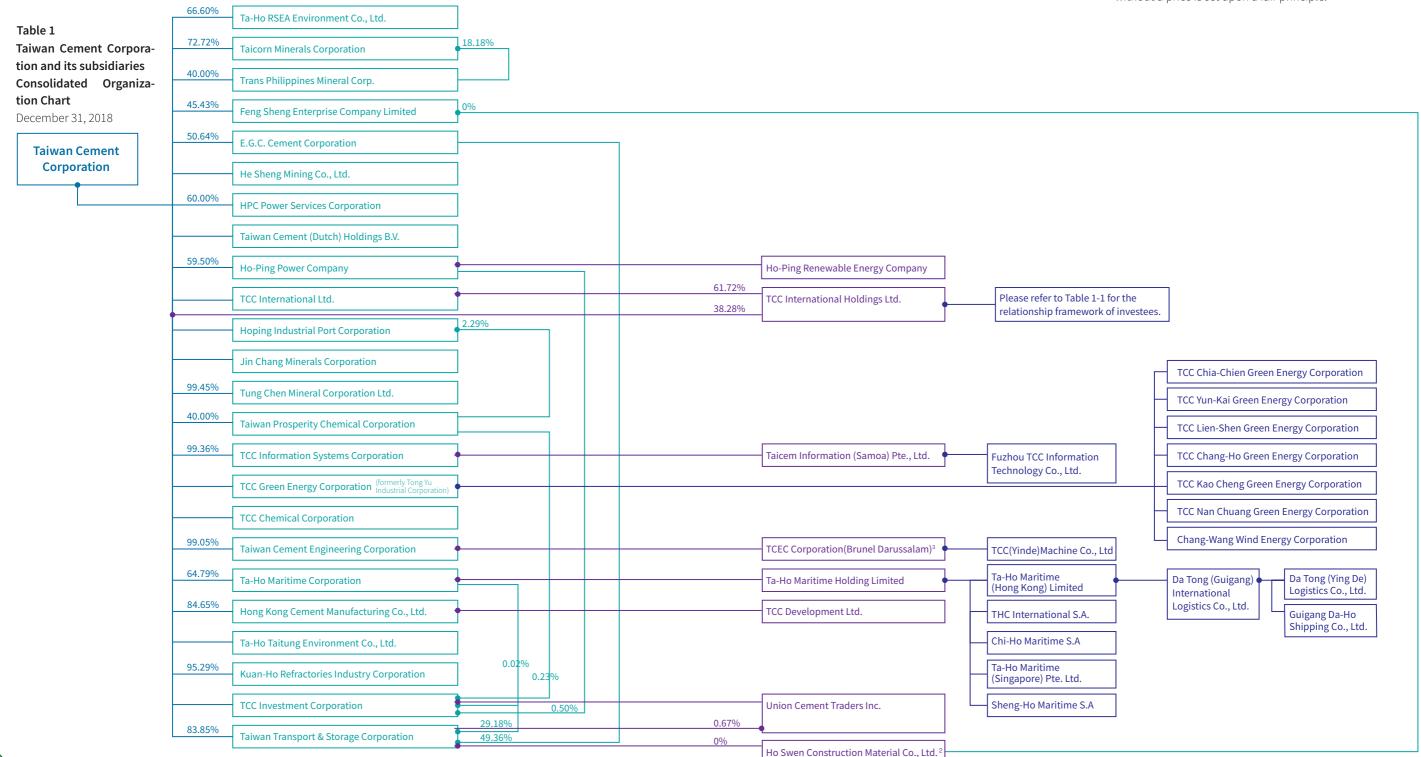
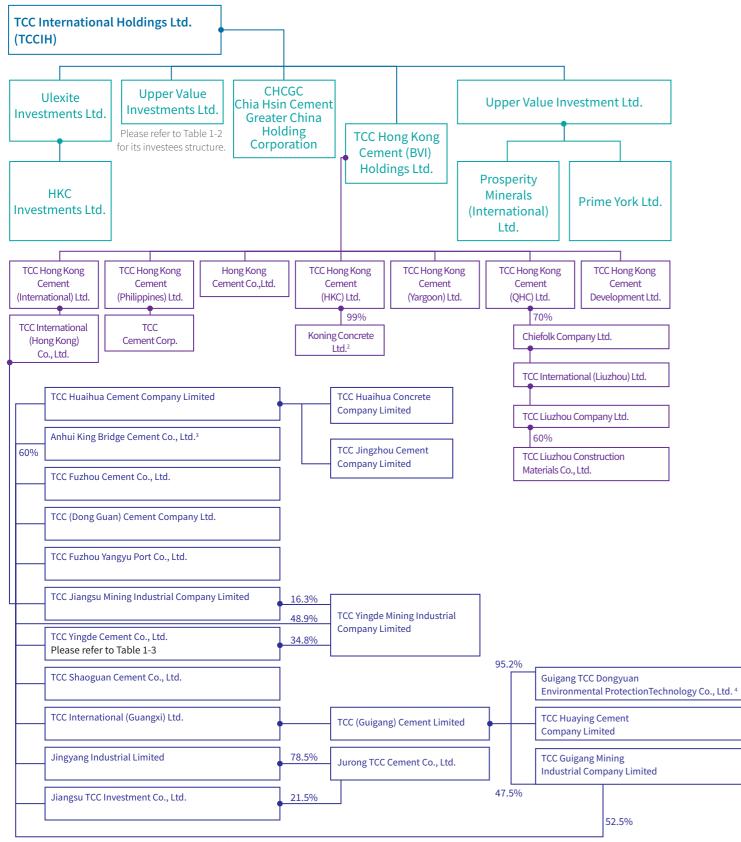


Table 1-1
Taiwan Cement Corporation and its subsidiaries
Organization Chart of TCC International Holdings Ltd. and Subsidiaries

December 31, 2018



<sup>1</sup>Unless specified otherwise, all shareholdings are 100%. <sup>2</sup>Koning Concrete Ltd.'s cancellation was completed in August 2018.

3Anhui King Bridge Cement Ltd's cancellation was completed in January 2019. Guigang TCC Dongyuan Environmental Protection Technology Co., Ltd. was founded on June 7, 2018.

Table 1-2
Taiwan Cement Corporation and its subsidiaries
Organization Chart of Upper Value Investments Ltd. and Its Subsidiaries

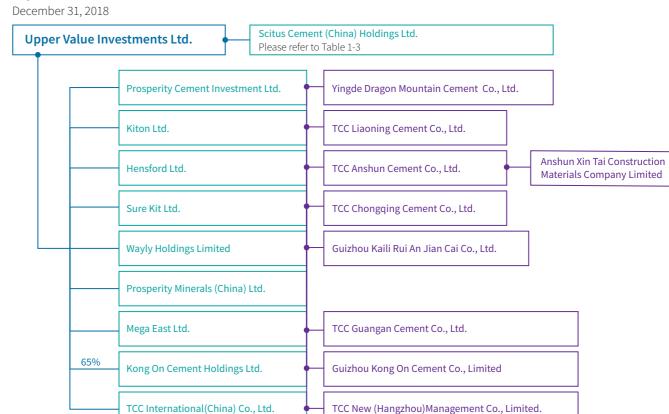
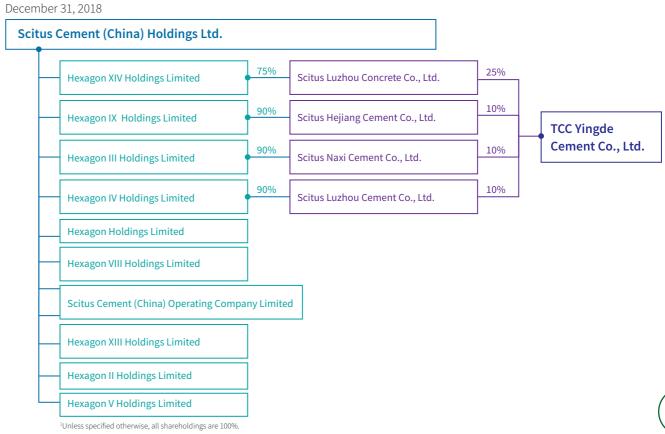


Table 1-3
Taiwan Cement Corporation and its subsidiaries
Organization chart of Scitus Cement (China) Holdings Ltd. and its subsidiaries

<sup>1</sup>Unless specified otherwise, all shareholdings are 100%.



| A CCI II  | Establishing |  | Paid-in                             | December 31, 2018 (expressed in N1\$ thousands)  |  |  |  |
|---|--------------|--|-------------------------------------|--|--|--|--|
| Affiliate   | Date         | Address  | Capital                             | Scope of Business  |  |  |  |
| Taiwan Transport &<br>Storage Corporation               | 1955/12/30   | 10F, No. 113, Section 2, Zhongshan North<br>Road, Zhongshan District, Taipei City                  | 389,620                             | Cargo transportation, cargo storage, customs clearance, construction material wholesale, sea transportation understanding, coal and coal product wholesale, automobile container transportation, construction material wholesale, desilting  |  |  |  |
| Ho Swen Construction<br>Material Co., Ltd. <sup>1</sup> | 2000/5/25    | No. 69-2, Huadong Road, Hualien City,<br>Hualien County  | -                                   | Manufacture of non-metallic mineral products, wholesale and retail of bricks, tiles, and stones for construction   |  |  |  |
| Taiwan Cement<br>Engineering Corporation                | 1974/9/2     | 10F, No. 113, Section 2, Zhongshan North<br>Road, Taipei City                                      | 601,656                             | 1.Manufacture and sales of chemical engineering machinery and its accessories. 2.Design, manufacture, and installation of equipment for pollution prevention and waste disposal 3.Repair and manufacture of railroad carriers for bulk cement, stone, and coal; bulk cement trailers; and related parts.   |  |  |  |
| TCEC Corporation<br>(Brunei Darussalam) <sup>2</sup>    | 2004/3/11    | Rm51, 5th Floor Britannia House, Jalan<br>Cator, Bandar Seri Begawan BS 8811, Brunei<br>Darussalam | Bandar Seri Begawan BS 8811, Brunei |  |  |  |  |
| TCC (Yingde) Machinery<br>Co., Ltd.                     | 2005/1/13    | Inside the TCC (Yingde) Cement Plant in<br>Aishanping Village, Yingcheng, Yingde City              | RMB<br>4,075,000                    | Production and sales of cement machinery; and design and assembly of accessories for power plant equipment, incinerator equipment, and environmental equipment.  |  |  |  |
| Kuan-Ho Refractories<br>Industry Corporation            | 1973/7/26    | No. 932, Jianfeng Road, Neighborhood 13,<br>Lankeng Borough, Toufeng Town, Miaoli<br>County        | 190,000                             | Manufacture and trading of fire-retardant materials, heat insulation materials, and acidand alkaline-resistant instruments.     Manufacture and trading of ceramics and construction materials.     Processing and trading of silver sand clay and red sand clay.     Trading of fire-retardant and ceramic materials and accessories.     Investment in production-sales or government supported special economic development projects relating to fire-retardant and ceramic materials.     Design and installation of furnace lining. |  |  |  |
| TCC Green Energy<br>Corporation <sup>3</sup>            | 1989/8/7     | No. 11, Changbin East 1st Road, Wenzi<br>Village, Xianxi Township, Changhua County                 | 1,508,987                           | Manufacture of machinery for the generation, transmission, and distribution of electricity, and own-use generation equipment   |  |  |  |
| TCC CHIA-CHIEN Green<br>Energy Corporation⁴             | 2018/5/4     | No. 8, Xinsheng St., Minxiong Township,<br>Chiayi County   | 202,000                             | Manufacture of machinery for the generation, transmission, and distribution of electricity, and own-use generation equipment   |  |  |  |
| TCC YUN-KAI Green<br>Energy Corporation <sup>5</sup>    | 2018/5/4     | No. 41, Shanzimen, Erlun Township, Yunlin<br>County  | 25,000                              | Manufacture of machinery for the generation, transmission, and distribution of electricity, and own-use generation equipment   |  |  |  |
| TCC LIEN-HSIN Green<br>Energy Corporation <sup>6</sup>  | 2018/5/8     | No. 263, Heping, Xiulin Township, Hualien<br>County  | 12,000                              | Manufacture of machinery for the generation, transmission, and distribution of electricity, and own-use generation equipment   |  |  |  |
| TCC CHANG-HO Green<br>Energy Corporation <sup>7</sup>   | 2018/7/10    | No. 11, Changbin East 1st Road, Wenzi<br>Village, Xianxi Township, Changhua County                 | 5,000                               | Manufacture of machinery for the generation, transmission, and distribution of electricity, and own-use generation equipment   |  |  |  |

Data of affiliates

December 31, 2018 (expressed in NT\$ thousands)

| Affiliate   | Establishing<br>Date | Address  | Paid-in<br>Capital   | Scope of Business  |
|---|----------------------|--|--|--|
| TCC KAO-CHENG Green<br>Energy Corporation <sup>8</sup>    | 2018/7/18            | No. 16, Gongye 1st Rd., Renwu Dist.,<br>Kaohsiung City                                   | 12,000   | Manufacture of machinery for the generation transmission, and distribution of electricity and own-use generation equipment |
| TCC NAN-CHUNG Green<br>Energy Corporation <sup>9</sup>    | 2018/9/6             | No. 36, Taiyi 7th St., Rende Dist., Tainan<br>City                                       | 20,000   | Manufacture of machinery for the generation transmission, and distribution of electricity and own-use generation equipment |
| CHANG-WANG Wind<br>Power Co., Ltd <sup>10</sup>           | 2018/12/12           | No. 11, Changbin East 1st Road, Wenzi<br>Village, Xianxi Township, Changhua<br>County    | 120,000  | Manufacture of machinery for the generation transmission, and distribution of electricity and own-use generation equipment |
| Hong Kong Cement<br>Manufacturing Co Ltd.                 | 1962/8/29            | 16/F, Hong Kong Diamond Exchange<br>Bldg.,No. 8-10 Duddell Street, Central,<br>Hong Kong | HKD<br>45,000,000  | Investment holdings.   |
| TCC Development Ltd.                                      | 1997/5/22            | 16/F, Hong Kong Diamond Exchange<br>Bldg.,No. 8-10 Duddell Street, Central,<br>Hong Kong | Ordinary<br>shares:<br>USD 10<br>Non-voting<br>deferred<br>shares:<br>USD 90 | Investment holdings.   |
| Ta-Ho Maritime Corporation                                | 1979/9/4             | 10F, No. 113, Section 2, Zhongshan<br>North Road, Taipei City                            | 1,831,367  | Ship transportation and shipping agent   |
| Ta-Ho Maritime<br>Holdings Limited                        | 1995/6/20            | Offshore, Chanbers, P.O. Box 217,<br>Apia,Western Samoa                                  | USD<br>10,300,000  | Investment holdings.   |
| THC International S.A.                                    | 1990/4/12            | 53rd Street, Urbanizacion Obarrio Torre<br>Swiss Bank, 16th Floor, Panama, R.O.<br>Panam | USD<br>2,010,000   | Ship transportation  |
| Chi Ho Maritime S.A.                                      | 1994/1/26            | 53rd Street, Urbanizacion Obarrio Torre<br>Swiss Bank, 16th Floor, Panama, R.O.<br>Panam | USD<br>6,510,000   | Ship transportation  |
| Sheng Ho Maritime S.A.                                    | 1994/2/3             | 53rd Street, Urbanizacion Obarrio Torre<br>Swiss Bank, 16th Floor, Panama, R.O.<br>Panam | USD<br>2,010,000   | Ship transportation  |
| Ta-Ho Maritime<br>(Hong Kong) Limited                     | 2008/5/30            | 30 Canton Road, Room 511, Silvercord<br>Tower 1, Tsimshatsui, Kowloon, Hong<br>Kong SAR  | USD<br>5,100,000   | Ship transportation  |
| Ta-Ho Maritime<br>(Singapore) Pte. Ltd.                   | 2008/9/25            | 8 Cross Street#11-00 Pwc Building<br>Singapore 048424                                    | USD<br>100,000   | Ship transportation  |
| Da Tong (Guigang)<br>International Logistics<br>Co., Ltd. | 2008/9/28            | Peope's Government, Hualian Town,<br>Qintang District, Guigang City                      | USD<br>5,000,000   | Logistics  |
|   |                      |  |  | I .  |

| Affiliate                                      | Establishing<br>Date | Address  | Paid-in<br>Capital | Scope of Business   |
|--|----------------------|--|--------------------|---|
| Guigang Da-Ho<br>shipping Co., Ltd.            | 2008/11/19           | Peope's Government, Hualian Town,<br>Qintang District, Guigang City                                      | RMB<br>4,000,000   | Ship transportation   |
| Da Tong (Ying De)<br>Logistics Co., Ltd.       | 2012/3/8             | 2 <sup>nd</sup> Floor, Honglou, Guanyinshan,<br>Yingcheng Subdistrict, Yingde City                       | RMB<br>5,000,000   | Logistics   |
| TCC Investment Corporation                     | 1988/6/21            | 11F, No. 113, Section 2, Zhongshan<br>North Road, Taipei City.   | 631,500            | Investment holdings.  |
| Union Cement Traders Inc.                      | 1990/11/15           | 11F, No. 113, Section 2, Zhongshan<br>North Road, Taipei City.   | 219,450            | Trading   |
| TCC Chemical Corporation                       | 1991/4/11            | 9F, No. 113, Section 2, Zhongshan<br>North Road, Taipei City.  | 2,400,000          | Property Leasing<br>Energy technology service   |
| TCC Information Systems<br>Corporation         | 1991/4/10            | 9F, No. 113, Section 2, Zhongshan<br>North Road, Taipei City.  | 150,000            | 1.Design, installation, sales, maintenance, and lease of computer and information software products.     2.EPC contracting of automation control projects and computerization projects.     3.Enquiries and consultation for computerization.   |
| Taicem Information (Samoa)<br>Pte., Ltd.       | 2003/2/24            | Trust Chambers, Lotemau Centre, P.<br>O. Box 1225, Apia, Samoa.  | 3,412              | Investment holdings.  |
| Fuzhou TCC Information<br>Technology Co., Ltd. | 2003/8/6             | TCC (Fuzhou) Corporation Building,<br>Yangyu Village, Hangcheng Street,<br>Changle City, Fujian Province | RMB<br>827,000     | Development and production of software products; maintenance and after-sale service of precision instruments and equipment.   |
| Taiwan Prosperity Chemical<br>Corporation      | 1991/5/28            | 9F, No. 113, Section 2, Zhongshan<br>North Road, Taipei City.  | 2,919,750          | Isopropylbenzene, phenol, acetone, cyclohexanone, BPA, and maleic anhydride.  |
| Tung Chen Mineral Corporation                  | 1973/1/6             | No. Heping 263, Heping Village, Xiulin<br>Township, Hualien County                                       | 2,000              | Mining, sales, processing, and trading of minerals  |
| Jin Chang Minerals Corporation                 | 1999/7/1             | No. Heping 263, Heping Village, Xiulin<br>Township, Hualien County                                       | 18,000             | Wholesale of minerals, bricks, tiles, and stone; and sand and gravel excavation   |
| Hoping Industrial Port<br>Corporation          | 1996/5/8             | No. 6, Hegong 5th Road, Heping<br>Village, Xiulin Township, Hualien<br>County                            | 3,200,000          | Operations, maintenance and management of Hoping Industrial Port  |
| Ho Sheng Mining Co., Ltd.                      | 2011/3/31            | 10F, No. 113, Section 2, Zhongshan<br>North Road, Taipei City.   | 301,000            | sand and gravel excavation  |
| Ho-Ping Power Company                          | 1997/10/29           | No. 7, Hegong 2nd Road, Heping<br>Village, Xiulin Township, Hualien<br>County                            | 13,545,215         | 1.Coal-fired power plant. 2.Import and trading of fuel coal for power generation. 3 Import and trading of raw materials and parts for generation equipment. 4.Manufacture, processing, and trading of gypsum, coal dust, and bottom ash. 5. All business items that are not prohibited or restricted by law, except those that are subject to special approval. |

Data of affiliates

December 31, 2018 (expressed in NT\$ thousands)

| Affiliate                                   | Establishing<br>Date | Address  | Paid-in<br>Capital                               | Scope of Business   |
|---|----------------------|--|--|---|
| Ho-Ping Renewable Energy<br>Company         | 2018/4/9             | No. 7, Hegong 2nd Road, Heping Village,<br>Xiulin Township, Hualien County                       | 1,000  | 1.Electric Power Supply, Electric Transmission and Power Distribution Machinery Manufacturing. 2.Self-usage power generation equipment utilizing renewable energy industry. 3.Electricity Equipments Checking and Maintenance. 4.Apparatus Installation Construction. 5.Energy Technical Services     |
| Ta-Ho Taitung Environment<br>Co., Ltd.      | 2000/12/12           | 7F, No. 16-2, Dehui Street, Taipei City  | 371,000  | J101040 waste disposal  |
| HPC Power Services<br>Corporation           | 1999/01/29           | No. 7, Hegong 2nd Road, Heping Village,<br>Xiulin Township, Hualien County                       | 3,107  | Operations, management, and consultation of power plants, and business activities permitted under the law of the British Virgin Islands   |
| Ta-Ho RSEA Environment<br>Co., Ltd.         | 2002/12/11           | 7F, No. 16-2, Dehui Street, Taipei City  | 1,000,000  | J101040 waste disposal  |
| E.G.C. Cement Corporation                   | 1992/5/26            | Lane 23, No. 6, Xingang Road, Tainan<br>City   | 159,200  | Sales and processing of cement, asphalt, and gypsum   |
| Feng Shehg Enterprise<br>Company Limited    | 1997/9/25            | No. 294, Fengren Road, Renwu District,<br>Kaohsiung City.  | 600,000  | Soil and gravel mining, leasing, ready mixed concrete manufacture, international trade, manufacture and retail of stone and construction materials, other environmental services, all business items that are not prohibited or restricted by law, except those that are subject to special approval. |
| Taicorn Minerals Corp.                      | 1995/6/20            | 8th Fl., Unit A, Legaspi Towers 300, 2600<br>Roxas Boulevard, Malate, Manila, the<br>Philippines | PHP<br>16,500,000                                | Mining  |
| Trans Philipines Minera<br>Corp.            | 1996/2/2             | 8th Fl., Unit A, Legaspi Towers 300, 2600<br>Roxas Boulevard, Malate, Manila, the<br>Philippines | PHP<br>5,000,000                                 | Mining  |
| TCC International Ltd.                      | 1997/5/22            | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong        | USD<br>1,100,876,000                             | Investment holdings.  |
| TCC International<br>Holdings Ltd.          | 1997/7/4             | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong        | Common<br>share<br>capital<br>HKD<br>674,492,964 | Investment holdings.  |
| TCC International (Guangxi)<br>Limited      | 2004/10/13           | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong        | USD<br>203,000,000                               | Investment holdings.  |
| TCC (Guigang) Cement Ltd.                   | 2005/12/28           | Huanglian Valley, Huanglian Town,<br>Qintang District, Guigang City                              | USD<br>332,875,900                               | Manufacture and distribution of clinkers and cement   |
| TCC Hong Kong Cement<br>(BVI) Holdings Ltd. | 1997/5/22            | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong        | USD<br>16,000                                    | Investment holdings.  |
| Ulexite Investments Ltd.                    | 1999/8/12            | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong        | USD200   | Investment holdings.  |

| Affiliate                                   | Establishing<br>Date | Address   | Paid-in<br>Capital  | Scope of Business                 |
|---|----------------------|---|---|-----------------------------------|
| HKC Investments Ltd.                        | 2000/3/3             | 11F, No. 113, Section 2, Zhongshan<br>North Road, Taipei City.                            | 155,000   | Investment holdings.              |
| TCC Hong Kong Cement<br>Development Ltd.    | 1997/5/22            | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong | Ordinary shares :<br>USD 10<br>Non-voting<br>deferred shares:<br>USD 90 | Property held                     |
| TCC Hong Kong Cement<br>(QHC) Ltd.          | 1997/5/22            | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong | USD100  | Investment holdings.              |
| Chiefolk Company Ltd.                       | 1989/4/18            | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong | HKD 1,000,000   | Investment holdings.              |
| TCC International<br>(Liuzhou) Ltd.         | 2003/2/26            | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong | USD50,000   | Investment holdings.              |
| TCC Liuzhou<br>Company Ltd.                 | 2007/11/9            | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong | HKD10,000   | Investment holdings.              |
| TCC Hong Kong Cement<br>(Yargoon) Ltd.      | 1997/3/12            | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong | USD100  | Investment holdings.              |
| TCC Hong Kong Cement (HKC) Ltd.             | 1997/5/22            | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong | USD100  | Investment holdings.              |
| Koning Concrete Ltd. <sup>11</sup>          | 1992/5/14            | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong | HKD100  | Investment holdings.              |
| Hong Kong Cement<br>Company Ltd.            | 1997/6/11            | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong | HKD 164,391,000   | Import and distribution of cement |
| TCC Hong Kong Cement<br>(Philippines) Ltd.  | 1997/5/22            | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong | USD100  | Investment holdings.              |
| TCC Cement Corporation                      | 1996/2/21            | Unit 16-E, Legaspi Towers 300 Roxas<br>Blvd., Malate, Manila, Phils.                      | PHP 91,020,500  | Investment holdings.              |
| TCC Hong Kong Cement<br>(International)Ltd. | 1997/6/11            | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong | USD 1,600   | Investment holdings.              |

#### Data of affiliates

#### December 31, 2018 (expressed in NT\$ thousands)

| Affiliate   | Establishing<br>Date | Address   | Paid-in<br>Capital   | Scope of Business   |
|---|----------------------|---|----------------------|---|
| TCC International<br>(Hong Kong) Co., Ltd.          | 2007/10/25           | 16/F, Hong Kong Diamond Exchange<br>Bldg.,No. 8-10 Duddell Street, Central,<br>Hong Kong          | HKD<br>9,935,122,694 | Investment holdings.  |
| TCC Fuzhou Yangyu Port<br>Co., Ltd.                 | 2002/5/17            | West Side, Xizhe Line, Yangyu Village,<br>Hangcheng Town, Changle City, Fujian<br>Province, China | USD<br>5,000,000     | Pier facilities and services  |
| TCC Liuzhou Construction<br>Materials Co., Ltd.     | 2003/10/21           | 102 Anchunjiang Road, Liuzhou City,<br>Guangxi Zhuang Autonomous Region,<br>China                 | USD<br>13,500,000    | Manufacture and distribution of bottom ash                                |
| TCC Fuzhou Cement<br>Co., Ltd.                      | 2002/5/17            | West Side, Xizhe Line, Yangyu Village,<br>Hangcheng Town, Changle City, Fujian<br>Province, China | USD<br>16,250,000    | Manufacture and distribution of cement                                    |
| Anhui King Bridge Cement<br>Co., Ltd. <sup>12</sup> | 1997/12/18           | Gangyi Road, Wuhu City Economic and<br>Technology Development Zone, Anhui<br>Province, China      | USD<br>15,000,000    | Manufacture and distribution of bottom ash                                |
| TCC Yingde Cement<br>Co., Ltd.                      | 2003/9/15            | Guanyinshan, Yingcheng Subdistrict,<br>Yingde City  | USD<br>254,400,000   | Manufacture and distribution of clinkers and cement                       |
| Jurong TCC Cement<br>Co., Ltd.                      | 1993/6/26            | Qiaotou Town, Jurong City, Jiangsu<br>Province, China   | USD<br>233,000,000   | Limestone mining, and production and sales of cement and cement products. |
| Chia Hsin Cement Greater<br>China Holding Corp.     | 2003/6/10            | 16/F, Hong Kong Diamond Exchange<br>Bldg.,No. 8-10 Duddell Street, Central,<br>Hong Kong          | USD<br>11,429,000    | Investment holdings.  |
| Jingyang Industrial Ltd.                            | 1991/2/12            | 16/F, Hong Kong Diamond Exchange<br>Bldg.,No. 8-10 Duddell Street, Central,<br>Hong Kong          | HKD<br>101,614,561   | Investment holdings.  |
| JiangSu TCC Investment<br>Co., Ltd.                 | 2009/5/27            | Block 11, Mianzhongchang, Qiaotou<br>Town, Jurong City, Jiangsu Province,<br>China                | USD<br>50,000,000    | Investment holdings.  |
| Upper Value Investments<br>Limited                  | 2008/1/2             | 16/F, Hong Kong Diamond Exchange<br>Bldg.,No. 8-10 Duddell Street, Central,<br>Hong Kong          | USD<br>12,700        | Investment holdings.  |
| Prosperity Cement<br>Investment Limited             | 2006/1/24            | 16/F, Hong Kong Diamond Exchange<br>Bldg.,No. 8-10 Duddell Street, Central,<br>Hong Kong          | HKD<br>759,955,769   | Investment holdings.  |
| Yingde Dragon Mountain<br>Cement Co., Ltd.          | 2003/3/10            | Wanpu Town, YingdeCity, Guangdong<br>Province, China  | RMB<br>428,110,000   | Manufacture and distribution of clinkers and cement                       |

| Affiliate   | Establishing<br>Date | Address  | Paid-in<br>Capital   | Scope of Business                                   |
|---|----------------------|--|----------------------|---|
| Prosperity Minerals<br>(International) Limited      | 2004/4/23            | 16/F, Hong Kong Diamond Exchange<br>Bldg.,No. 8-10 Duddell Street, Central,<br>Hong Kong     | HKD<br>28,533,976    | Investment holdings.                                |
| Kiton Limited                                       | 2007/12/17           | 16/F, Hong Kong Diamond Exchange<br>Bldg.,No. 8-10 Duddell Street, Central,<br>Hong Kong     | HKD<br>685,926,583   | Investment holdings.                                |
| TCC Liaoning Cement<br>Company Limited              | 2007/12/14           | Xidayao Village, Xidayao Town, Dengta<br>City, Liaoyang, Liaoning Province, China            | RMB<br>371,000,000   | Manufacture and distribution of clinkers and cement |
| Hensford Limited                                    | 2007/12/19           | 16/F, Hong Kong Diamond Exchange<br>Bldg.,No. 8-10 Duddell Street, Central,<br>Hong Kong     | HKD<br>1,191,945,979 | Investment holdings.                                |
| TCC Anshun Cement<br>Company Limited                | 2008/5/27            | Martin Village, Chengguan Town, Pingba<br>District, Anshun City, Guizhou Province,<br>China  | USD<br>153,490,000   | Manufacture and distribution of clinkers and cement |
| Sure Kit Limited                                    | 2008/2/13            | 16/F, Hong Kong Diamond Exchange<br>Bldg.,No. 8-10 Duddell Street, Central,<br>Hong Kong     | HKD<br>953,818,809   | Investment holdings.                                |
| TCC Chongqing Cement<br>Company Limited             | 2008/6/3             | Jianliang Village, Yanjing Town, Hechuan<br>District, Chongqing City, China                  | USD<br>118,000,000   | Manufacture and distribution of clinkers and cement |
| Prime York Limited                                  | 2007/12/17           | 16/F, Hong Kong Diamond Exchange<br>Bldg.,No. 8-10 Duddell Street, Central,<br>Hong Kong     | HKD<br>532,147,515   | Investment holdings.                                |
| Prosperity Minerals<br>(China) Limited              | 2007/7/26            | 16/F, Hong Kong Diamond Exchange<br>Bldg.,No. 8-10 Duddell Street, Central,<br>Hong Kong     | USD<br>10,300        | Investment holdings.                                |
| Mega East Limited                                   | 2008/4/16            | 16/F, Hong Kong Diamond Exchange<br>Bldg.,No. 8-10 Duddell Street, Central,<br>Hong Kong     | HKD<br>597,603,470   | Investment holdings.                                |
| TCC Guangan Cement<br>Company Limited               | 2009/8/25            | Jijian Village, Qianfeng Town, Guangan<br>District, Guangan City, Sichuan Province,<br>China | USD<br>76,990,000    | Manufacture and distribution of clinkers and cement |
| TCC (DongGuan)<br>Cement Company<br>Limited         | 2010/5/10            | 4 <sup>th</sup> Floor, 8 Jinniu Road, Wanniudun Town,<br>Dongguan City, China                | USD<br>20,000,000    | Transfer of cement and cement products              |
| TCC International<br>(China) Company<br>Limited     | 2011/1/14            | 16/F, Hong Kong Diamond Exchange<br>Bldg.,No. 8-10 Duddell Street, Central,<br>Hong Kong     | HKD<br>62,143,260    | Investment holdings.                                |
| TCC New (Hangzhou)<br>Management Company<br>Limited | 2011/5/13            | Room 1902, 19th Floor, Jialianhua<br>Building, 586 Jiaguo North Road,<br>Hangzhou, China     | USD<br>8,000,000     | Business management                                 |

Data of affiliates

December 31, 2018 (expressed in NT\$ thousands)

| Affiliate   | Establishing<br>Date | Address  | Paid-in<br>Capital   | Scope of Business   |
|---|----------------------|--|----------------------|---|
| Kong On Cement<br>Holdings Ltd.                     | 2009/4/29            | 16/F, Hong Kong Diamond Exchange Bldg.,No.<br>8-10 Duddell Street, Central, Hong Kong                                      | HKD<br>127,440,000   | Investment holdings.  |
| Guizhou Kong On Cement<br>Company Limited           | 2009/6/9             | Shibanjing Village, Tingyun Township, Guanling<br>County, Anshun City, Guizhou Province, China                             | USD<br>20,300,000    | Manufacture and distribution of clinkers and cement                 |
| Wayly Holdings Limited                              | 2007/7/16            | 16/F, Hong Kong Diamond Exchange Bldg.,No.<br>8-10 Duddell Street, Central, Hong Kong                                      | USD 10,501           | Investment holdings.  |
| Guizhou Kaili Rui An Jian<br>Cai Co., Ltd.          | 2008/2/20            | Xintai Village, Ximahe District, Kaili City,<br>Guizhou Province, China  | RMB<br>389,660,500   | Manufacture and distribution of clinkers and cement                 |
| TCC Shaoguan Cement<br>Co., Ltd.                    | 2011/11/3            | Shijao Village, Wushi Town, Cujiang District<br>Shaoguan City, Guangdong Province, China                                   | USD<br>40,000,000    | Manufacture and distribution of clinkers and cement (in preparation |
| TCC Yingde Mining<br>IndustrialCompany<br>Limited   | 2004/4/13            | Aishanping Village, Yingde City, Guangdong<br>Province, China (inside the mining site of TCC<br>Yingde Cement Co., Ltd.)   | USD<br>11,500,000    | Provision of limestone mining service                               |
| TCC Guigang Mining<br>Industrial Company<br>Limited | 2007/6/28            | Huanglian Valley, Huanglian Town, Qintang<br>District, Guigang City (inside the mining site of<br>TCC Guigang Cement Ltd.) | USD<br>5,000,000     | Provision of limestone mining service                               |
| TCC Jiangsu Mining<br>Industrial Company<br>Limited | 1996/10/21           | Dazhuo Township, Jurong City, Jiangsu<br>Province, China   | USD<br>4,000,000     | Provision of limestone mining service                               |
| Scitus Cement (China)<br>Holdings Limited           | 2007/10/30           | 16/F, Hong Kong Diamond Exchange Bldg., No.<br>8-10 Duddell Street, Central, Hong Kong                                     | HKD<br>1,245,257,277 | Investment holdings.  |
| Scitus Cement (China) Operating Company Limited     | 2008/1/9             | 16/F, Hong Kong Diamond Exchange Bldg., No.<br>8-10 Duddell Street, Central, Hong Kong                                     | USD<br>10,000        | Investment holdings.  |
| Hexagon Holdings Limited                            | 2007/3/1             | 16/F, Hong Kong Diamond Exchange Bldg., No.<br>8-10 Duddell Street, Central, Hong Kong                                     | HKD 1                | Investment holdings.  |
| Hexagon II Holdings<br>Limited                      | 2008/1/11            | 16/F, Hong Kong Diamond Exchange Bldg., No.<br>8-10 Duddell Street, Central, Hong Kong                                     | HKD 1                | Investment holdings.  |
| Hexagon III Holdings<br>Limited                     | 2008/1/11            | 16/F, Hong Kong Diamond Exchange Bldg., No.<br>8-10 Duddell Street, Central, Hong Kong                                     | HKD<br>79,500,001    | Investment holdings.  |
| Hexagon IV Holdings<br>Limited                      | 2008/3/11            | 16/F, Hong Kong Diamond Exchange Bldg., No.<br>8-10 Duddell Street, Central, Hong Kong                                     | HKD<br>136,430,001   | Investment holdings.  |

| Affiliate   | Establishing<br>Date | Address  | Paid-in<br>Capital | Scope of Business   |
|---|----------------------|--|--------------------|---|
| Hexagon V Holdings<br>Limited                               | 2008/3/11            | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong                | HKD 1              | Investment holdings.  |
| Upper Value Investment<br>Limited                           | 2008/5/20            | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong                | HKD 1              | Investment holdings.  |
| Hexagon VIII<br>Holdings Limited                            | 2008/5/20            | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong                | HKD 1              | Investment holdings.  |
| Hexagon IX Holdings<br>Limited                              | 2008/5/20            | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong                | HKD 1              | Investment holdings.  |
| Hexagon XIII Holdings<br>Limited                            | 2008/11/6            | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong                | HKD 1              | Investment holdings.  |
| Hexagon XIV Holdings<br>Limited                             | 2008/11/6            | 16/F, Hong Kong Diamond Exchange<br>Bldg., No. 8-10 Duddell Street, Central,<br>Hong Kong                | HKD 1              | Investment holdings.  |
| Scitus Luzhou Cement<br>Co.,Ltd.                            | 2008/5/5             | Community 1, Fulong Village, Zhendong<br>Township, Xuyong County, Luzhou City                            | RMB 395,000,000    | Manufacture and distribution of clinkers and cement           |
| Scitus Hejiang Cement<br>Co.,Ltd.                           | 2002/8/7             | Communities 3 and 4, Chaofang Village,<br>Hejiang Town, Hejiang County, Luzhou<br>City, Sichuan Province | RMB 23,250,000     | Manufacture and distribution of cement                        |
| Scitus Luzhou Concrete<br>Co.,Ltd.                          | 2009/5/13            | Naxi District Industrial Development<br>Zone, Luzhou City, Sichuan Province'                             | RMB 25,000,000     | Manufacture and distribution of concrete                      |
| Scitus Naxi Cement<br>Co.,Ltd.                              | 2009/5/13            | Naxi District Industrial Development<br>Zone, Luzhou City, Sichuan Province                              | RMB 146,510,000    | Manufacture and distribution of cement                        |
| Anshun Xin Tai<br>Construction Materials<br>Company Limited | 2012/2/13            | Matian Village, AnPing Office, Pingba<br>County, Anshun City, Guizhou Province,<br>China                 | RMB 15,000,000     | Manufacture and distribution of sand, gravels, and aggregates |
| TCC Huaying Cement<br>Company Limited                       | 2009/7/24            | Longqiao Village, Xikou Town, Huaying<br>City, Sichuan Province  | RMB 949,880,000    | Manufacture and distribution of clinkers and cement           |
| TCC Huaihua Cement<br>Company Limited                       | 2001/1/12            | Wuli Village, Luyang Town, Zhongfang<br>County, Hunan Province   | RMB 93,000,000     | Manufacture and distribution of clinkers and cement           |

Data of affiliates

December 31, 2018 (expressed in NT\$ thousands)

| Affiliate  | Establishing<br>Date | Address   | Paid-in<br>Capital | Scope of Business  |
|--|----------------------|---|--------------------|--|
| TCC Jingzhou Cement<br>Company Limited   | 2008/8/20            | Pukou Township, Jingzhou County,<br>Huihua City, Hunan Province             | RMB<br>10,000,000  | Manufacture and distribution of clinkers and cement              |
| TCC Huaihua Concrete<br>Company Limited  | 2009/9/24            | Wuli Village, Luyang Town, Zhongfang<br>County, Huihua City, Hunan Province | RMB<br>10,000,000  | Manufacture and distribution of concrete                         |
| Guigang TCC Dongyuan<br>Environmental Protection<br>Technology Co., Ltd. <sup>13</sup> | 2018/6/7             | Huanglian Valley, Huanglian Town,<br>Qintang District, Guigang City         | RMB<br>126,000,000 | Development of techonogies for environmental protection products |
| Taiwan Cement (Dutch)<br>Holdings B.V. <sup>14</sup>                                   | 2018/11/08           | Kingsfordweg 103, 1043GP Amsterdam  | EUR<br>831,431,000 | Investment holdings.   |

<sup>&</sup>lt;sup>1</sup>Ho Shun Construction Materials Corporation was completed liquidation procedure in December 2018.

<sup>&</sup>lt;sup>2</sup> TCEC Corporation's cancellation was completed in December 2018.

<sup>&</sup>lt;sup>3</sup>Tong Yu Industrial Corporation was renamed TCC Green Energy Corporation in March 2018.

<sup>&</sup>lt;sup>4</sup>TCC Chia-Chien Green Energy Co., Ltd was founded on May 4, 2018.

<sup>&</sup>lt;sup>5</sup>TCC Yun-Kai Green Energy Co., Ltd was founded on May 4, 2018.

<sup>&</sup>lt;sup>6</sup>TCC Lien-Shen Green Energy Co., Ltd was founded on May 8, 2018.

<sup>&</sup>lt;sup>7</sup>TCC Chang-ho Green Energy Co., Ltd was founded on July 10, 2018.

<sup>&</sup>lt;sup>8</sup>TCC Kao Cheng Green Energy Co., Ltd was founded on July 18, 2018.

<sup>&</sup>lt;sup>9</sup>TCC Nan Chung Green Energy Co., Ltd was founded on September 6, 2018.

<sup>&</sup>lt;sup>10</sup>Changwon Wind Power Generation Co., Ltd was founded on December 12, 2018.

<sup>&</sup>lt;sup>11</sup>Koning Concrete Ltd.'s cancellation was completed in August 2018.

<sup>&</sup>lt;sup>12</sup>Anhui King Bridge Cement Co., Ltd.s cancellation was completed in January 2019.

 $<sup>^{13}</sup> Guigang\ TCC\ Dongyuan\ Environmental\ Protection\ Technology\ Co., Ltd.\ was\ founded\ on\ June\ 7,2018.$ 

<sup>&</sup>lt;sup>14</sup>Taiwan Cement (Dutch) Holdings B.V was founded on November 8, 2018.

May 10, 2019 (expressed in shares and %)

|   |   |  | Type of Shar                   | es            |
|---|---|--|--------------------------------|---------------|
| Affiliate   | Title   | Name or Representative   | Shareholdings                  | Percentage    |
| Taiwan Transport &<br>Storage Corporation               | Chairman<br>Director<br>Supervisor              | Representatives of Taiwan Cement Corporation: Koo, Kung-Yi<br>Representatives of Taiwan Cement Corporation: Chang An-Ping , Li,<br>Jong-Peir, Huang Chien-Chiang, Chien-Chuan Wang<br>Representative of Union Cement Traders Inc.: Xiao-En Tseng   | 32,668,031<br>261,278          | 83.85<br>0.67 |
|   | President                                       | Cynthia.Wu   | -                              | -             |
| Ho Swen Construction<br>Material Co., Ltd. <sup>1</sup> |   | The AGM on April 25, 2017 made a resolution to perform liquidation and determined April 30, 2017 was the date if dissolution and March 31, 2018 as the date of liquidation. The declaration of liquidation was completed on April 24, 2018, and the court certification of liquidation has been received in November 2018, and was completed liquidation procedure in December 2018. | -                              | -             |
| Taiwan Cement Engineering<br>Corporation                | Chairman<br>Director<br>Supervisor<br>President | Representative of Taiwan Cement Corporation: Qing-Song Guo<br>Representatives of Taiwan Cement Corporation: Ker-Fu Lu, Huang<br>Chien-Chiang<br>Representative of Taiwan Cement Corporation: Jian-Quan Wang<br>Qing-Song Guo   | 59,593,414                     | 99.05         |
| TCEC Corporation<br>(Brunei Darussalam) <sup>2</sup>    | Chairman  | Representative of Taiwan Cement Engineering Corporation: Yu-Wen Qiu  | Contribution:<br>USD 500,000   | 100.00        |
| TCC (Yingde) Machinery<br>Co., Ltd.                     | Chairman<br>Director<br>Supervisor              | Representative of Taiwan Cement Engineering Corporation: Ker-Fu Lu<br>Representative of Taiwan Cement Engineering Corporation: Cen-Wei<br>Lan, Cheng-Dao Qiang<br>Representative of Taiwan Cement Engineering Corporation: Chen-Chia<br>Song   | Contribution:<br>RMB 4,075,000 | 100.00        |
| Kuan-Ho Refractories<br>Industry Corporation            | Chairman<br>Director<br>Supervisor<br>President | Representative of Taiwan Cement Corporation: Yi-Cai Hu<br>Representatives of Taiwan Cement Corporation: Qing-Song Guo,<br>Chien-Chuan Wang, Chia-Pei Wei, Kuang-Hsi Chen<br>Representative of Taiwan Cement Corporation: Guo-Hong Yeh<br>Chih-Jen Liu  | 18,105,000                     | 95.29         |
| TCC Green Energy<br>Corporation <sup>3</sup>            | Chairman<br>Director<br>Supervisor<br>President | Representative of Taiwan Cement Corporation: Ker-Fu Lu<br>Representatives of Taiwan Cement Corporation: Wei-Jue Hong, Jin-Lung<br>Yu<br>Representative of Taiwan Cement Corporation: Xiao-En Tseng<br>Chi-Liang Weng   | 150,898,696                    | 100.00        |
| TCC CHIA-CHIEN<br>Green Energy Corporation⁴             | Chairman<br>Director<br>Supervisor<br>President | Representative of TCC Green Energy Corporation: Ker-Fu Lu<br>Representatives of TCC Green Energy Corporation: Wei-Jue Hong,<br>Jin-Lung Yu<br>Representative of TCC Green Energy Corporation: Xiao-En Tseng<br>Chi-Liang Weng  | 20,200,000                     | 100.00        |
| TCC YUN-KAI<br>Green Energy Corporation <sup>5</sup>    | Chairman<br>Director<br>Supervisor<br>President | Representative of TCC Green Energy Corporation: Ker-Fu Lu<br>Representatives of TCC Green Energy Corporation: Wei-Jue Hong,<br>Jin-Lung Yu<br>Representative of TCC Green Energy Corporation: Xiao-En Tseng<br>Chi-Liang Weng  | 2,500,000                      | 100.00        |

#### Profiles of directors, supervisors, and presidents of affiliates

|  |                         |   | Type of Share                   | es         |
|--|-------------------------|---|---------------------------------|------------|
| Affiliate  | Title                   | Name or Representative  | Shareholdings                   | Percentage |
| TCC LIEN-HSIN<br>Green Energy Corporation <sup>6</sup> | Chairman<br>Director    | Representative of TCC Green Energy Corporation: Ker-Fu Lu<br>Representatives of TCC Green Energy Corporation: Wei-Jue Hong,<br>Jin-Lung Yu                                | 1,200,000                       | 100.00     |
|  | Supervisor<br>President | Representative of TCC Green Energy Corporation: Xiao-En Tseng<br>Chi-Liang Weng   | -                               | -          |
| TCC CHANG-HO<br>Green Energy Corporation <sup>7</sup>  | Chairman<br>Director    | Representative of TCC Green Energy Corporation: Ker-Fu Lu<br>Representatives of TCC Green Energy Corporation: Wei-Jue Hong,<br>Jin-Lung Yu                                | 500,000                         | 100.00     |
|  | Supervisor<br>President | Representative of TCC Green Energy Corporation: Xiao-En Tseng<br>Chi-Liang Weng   | -                               | -          |
| TCC KAO-CHENG<br>Green Energy Corporation <sup>8</sup> | Chairman<br>Director    | Representative of TCC Green Energy Corporation: Ker-Fu Lu<br>Representatives of TCC Green Energy Corporation: Wei-Jue Hong,<br>Jin-Lung Yu                                | 1,200,000                       | 100.00     |
|  | Supervisor<br>President | Representative of TCC Green Energy Corporation: Xiao-En Tseng<br>Chi-Liang Weng   | -                               | -          |
| TCC NAN-CHUNG<br>Green Energy Corporation <sup>9</sup> | Chairman<br>Director    | Representative of TCC Green Energy Corporation: Ker-Fu Lu<br>Representatives of TCC Green Energy Corporation: Wei-Jue Hong,<br>Jin-Lung Yu                                | 2,000,000                       | 100.00     |
|  | Supervisor<br>President | Representative of TCC Green Energy Corporation: Xiao-En Tseng<br>Chi-Liang Weng   | -                               | -          |
| CHANG-WANG<br>Wind Power Co., Ltd <sup>10</sup>        | Chairman<br>Director    | Representative of TCC Green Energy Corporation: Ker-Fu Lu<br>Representatives of TCC Green Energy Corporation: Wei-Jue Hong,<br>Jin-Lung Yu                                | 12,000,000                      | 100.00     |
|  | Supervisor<br>President | Representative of TCC Green Energy Corporation: Xiao-En Tseng<br>Chi-Liang Weng   | -                               | -          |
| Hong Kong Cement<br>Manufacturing Co. Ltd.             | Director                | Representatives of Taiwan Cement Corporation: Chang An-Ping, Chang<br>Yong, Koo, Kung-Yi  | 38,094                          | 84.65      |
|  |                         | Representative of Wing Fat Investments Inc.: Chan Cheuk Wai Alvin<br>Lydia Chao   | 881                             | 1.96<br>-  |
|  |                         | Lim Han-Ton<br>Lin Chia-Cheng, Wu Tong-Liang  | 100                             | 0.22       |
|  | President               | Koo, Kung-Yi  | -                               | -          |
| TCC Development Ltd.                                   | Director                | Chang An-Ping   | Ordinary share 10<br>Non-voting | 100.00     |
|  | President               | Koo, Kung-Yi  | deferred share 90<br>-          | -          |
| Ta-Ho Maritime Corporation                             | Chairman<br>Director    | Representatives of Taiwan Cement Corporation: Li, Jong-Peir<br>Representatives of Taiwan Cement Corporation: Chang An-Ping, Huang<br>Chien-Chiang, Ker-Fu Lu, Li-Wen Tsai | 118,649,441                     | 64.79      |
|  | Supervisor              | Representatives of Taiwan Transport & Storage Corporation: Lin-Tian Huang, Chien, Wen   | 53,437,810                      | 29.18      |
|  | President               | Miin-Shyong Shieh   | -                               | -          |
| Ta-Ho Maritime<br>Holdings Ltd.                        | Director                | Ta-Ho Maritime Corporation  | 10,300,000                      | 100.00     |

May 10, 2019 (expressed in shares and %)

|   |                                    |  | Type of Share                 | es         |
|---|------------------------------------|--|-------------------------------|------------|
| Affiliate   | Title                              | Name or Representative   | Shareholdings                 | Percentage |
| THC International S.A.                                    | Director                           | Representatives of Ta-Ho Marine Corporation: Chang An-Ping, Li, Jong-Peir, Wei-Lung Gao  | 2,010                         | 100.00     |
|   | President                          | Miin-Shyong Shieh  | -                             | -          |
| Chi Ho Maritime S.A.                                      | Director                           | Representatives of Ta-Ho Marine Corporation: Chang An-Ping, Li, Jong-Peir, Wei-Lung Gao  | 6,510                         | 100.00     |
|   | President                          | Miin-Shyong Shieh  | -                             | -          |
| ShengChi Ho Maritime S.A.                                 | Director                           | Representatives of Ta-Ho Marine Corporation: Chang An-Ping, Li, Jong-Peir, Wei-Lung Gao  | 2,010                         | 100.00     |
|   | President                          | Miin-Shyong Shieh  | -                             | -          |
| Ta-Ho Maritime<br>(Hong Kong) Limited                     | Director                           | Representative of Ta-Ho Marine Corporation: Li, Jong-Peir  | 5,100,000                     | 100.00     |
| Ta-Ho Maritime<br>(Singapore) Pte. Ltd.                   | Director<br>President              | Representative of Ta-Ho Marine Corporation: Chang An-Ping<br>Wei-Lung Gao  | 100,000                       | 100.00     |
| Ho Sheng Mining Co., Ltd.                                 | Chairman<br>Director               | Representative of Taiwan Cement Corporation: Ker-Fu Lu<br>Representatives of Taiwan Cement Corporation: Chia-Pei Wei, Yan-Ting<br>Lin          | 30,100,000                    | 100.00     |
|   | Supervisor<br>President            | Representative of Taiwan Cement Corporation: Li-Wen Tsai<br>Chia-Pei Wei   | -                             | -          |
| Da Tong (Guigang)<br>International Logistics<br>Co., Ltd. | Executive<br>Director<br>President | Representative of Da Tong (Guigang) International Logistics Co.,<br>LtdTa-Ho Marine (Hong Kong) Limited): Chen-Chia Song<br>Chuan-Feng Shih    | Contribution:<br>USD5,000,000 | 100.00     |
| Guigang Da-Ho Shipping<br>Co., Ltd.                       | Executive<br>Director<br>President | Representative of Guigang Da-Ho Shipping Co., Ltd.Da Tong (Guigang) International Logistics Co., Ltd.: Chen-Chia Song Chuan-Feng Shih          | Contribution:<br>RMB4,000,000 | 100.00     |
| Da Tong (Ying De)<br>Logistics Co., Ltd.                  | Executive<br>Director<br>President | Representative of Da Tong (Ying De) Logistics Co., Ltd.Da Tong (Guigang) International Logistics Co., Ltd.: Cheng-Dao Qiang Cheng-Dao Qiang    | Contribution:<br>RMB5,000,000 | 100.00     |
| TCC Investment<br>Corporation                             | Chairman<br>Director               | Representatives of Taiwan Cement Corporation: Chang An-Ping Representatives of Taiwan Cement Corporation: Li, Jong-Peir, Yu-Zhi Qiu            | 63,150,000                    | 100.00     |
|   | Supervisor<br>President            | Representative of Taiwan Cement Corporation: Guo-Hong Yeh<br>Li, Jong-Peir   | -                             | -          |
| Union Cement<br>Traders Inc.                              | Chairman<br>Director<br>Supervisor | Representative of TCC Investment Corporation: Chang An-Ping Representatives of TCC Investment Corporation: Li, Jong-Peir, Lin-Tian Huang       | 21,945,000                    | 100.00     |
|   | President                          | Representative of TCC Investment Corporation: Li-Wen Tsai<br>Li, Jong-Peir   | -                             | -          |
| TCC Chemical<br>Corporation                               | Chairman<br>Director<br>Supervisor | Representatives of Taiwan Cement Corporation: Chang An-Ping<br>Representatives of Taiwan Cement Corporation: Li, Jong-Peir and Koo,<br>Kung-Yi | 240,000,000                   | 100.00     |
|   | President                          | Representative of Taiwan Cement Corporation: Li-Wen Tsai<br>Ker-Fu Lu  | -                             | -          |

#### Profiles of directors, supervisors, and presidents of affiliates

|  |                           |   | Type of Shares               |                |  |
|--|---------------------------|---|------------------------------|----------------|--|
| Affiliate                                      | Title                     | Name or Representative  | Shareholdings                | Percentage     |  |
| TCC Information<br>Systems Corporation         | Chairman<br>Directors     | Representatives of Taiwan Cement Corporation: Li, Jong-Peir<br>Representatives of Taiwan Cement Corporation: Li, Jong-Peir, Chang<br>An-Ping, Ker-Fu Lu, Kuang-Hsi Chen, Huang Chien-Chiang | 14,904,000                   | 99.36          |  |
|  | Supervisor<br>President   | Guo-Hong Yeh<br>Jian-Zhi Chang  | -                            | -              |  |
| Taicem Information<br>(Samoa) Pte., Ltd.       | Director                  | Representative of TCC Information Systems Corporation: Jian-Zhi Chang   | 3,412                        | 100.00         |  |
| Fuzhou TCC Information<br>Technology Co., Ltd. | Chairman                  | Representative of Taicem Information (Samoa) Pte., Ltd.: Jian-Zhi Chang   | Contribution:<br>RMB 827,000 | 100.00         |  |
| Taiwan Prosperity<br>Chemical Corporation      | Chairman<br>Director      | Representatives of Taiwan Cement Corporation: Koo, Kung-Yi<br>Representatives of Taiwan Cement Corporation:, Li, Jong-Peir, Ji-Yeh<br>Chen, Feng-Ping Liu                                   | 116,790,998                  | 40.00          |  |
|  | Independent<br>Director   | Jen-Ho Chao   | -                            | -              |  |
|  | Independent<br>Director   | Sheng Chin Jen  | -                            | -              |  |
|  | Independent<br>Director   | Zi-Nan Jia  | -                            | -              |  |
|  | President                 | Tian-Fu Zhao  | -                            | -              |  |
| Tung Chen Mineral<br>Corporation               | Chairman<br>Director      | Representative of Taiwan Cement Corporation: Ker-Fu Lu<br>Representatives of Taiwan Cement Corporation: Chien-Chuan Wang,<br>Chia-Pei Wei   | 19,890                       | 99.45          |  |
|  | Supervisor                | Representative of Taiwan Cement Corporation: Yan-Ting Lin   |                              |                |  |
| Jin Chang Minerals<br>Corporation              | Chairman<br>Director      | Representative of Taiwan Cement Corporation: Ker-Fu Lu Representatives of Taiwan Cement Corporation: Chia-Pei Wei, Yan-Ting Lin   | 1,800,000                    | 100.00         |  |
|  | Supervisor                | Representative of Taiwan Cement Corporation: Jin-Yi Chen  |                              |                |  |
| Hoping Industrial Port Corporation             | Chairman<br>Director      | Representatives of Taiwan Cement Corporation: Huang Chien-Chiang<br>Representatives of Taiwan Cement Corporation: Chang An-Ping and<br>Chia-Pei Wei   | 319,990,000                  | 100.00         |  |
|  | Supervisor<br>President   | Xiao-En Tseng<br>Ping-Huang Chuang  | -                            | -              |  |
| Ho-Ping Power Company                          | Chairman<br>Vice Chairman | Representatives of Taiwan Cement Corporation: Chang An-Ping<br>Power Infrastructure Holdings (Malaysia) Limited: Ian George Tuft  | 805,940,306<br>539,099,566   | 59.50<br>39.80 |  |
|  | Director                  | Representatives of Taiwan Cement Corporation: Qing-Song Guo, Huang Chien-Chiang, Koo, Kung-Yi, Li, Jong-Peir, Ker-Fu Lu   | 805,940,306                  | 59.50          |  |
|  | Director                  | Representatives of ower Infrastructure Holdings (Malaysia) Limited:<br>Kwok-Wing Ho, Shunichi Tanaka and Sho Gemma  | 539,099,566                  | 39.80          |  |
|  | Supervisor                | Representatives of TCC Investment Corporation: Li-Wen Tsai, Xiao-En Tseng   | 6,772,608                    | 0.50           |  |
|  | Supervisor                | Representative of Power Infrastructure Holdings (Labuan) Limited:<br>Sharon Therese LEE (estimate to process the registration amendment in mid-May)   | 2,709,043                    | 0.20           |  |
|  | President                 | Li, Jong-Peir   | -                            | -              |  |

May 10, 2019 (expressed in shares and %)

|  |  |  | Type of Shares                        |                                  |  |
|--|--|--|---------------------------------------|----------------------------------|--|
| Affiliate                                | Title  | Name or Representative   | Shareholdings                         | Percentage                       |  |
| Ho-Ping Renewable<br>Energy Company      | Chairman<br>Vice Chairman<br>Director<br>Supervisor<br>President | Representative of Ho-Ping Power Company: Koo, Kung-Yi<br>Representative of Ho-Ping Power Company: Ian George Tuft<br>Representative of Ho-Ping Power Company: Li-Wen Tsai, I-Meng Huang,<br>Shunichi Tanaka<br>Representative of Ho-Ping Power Company:Ker-Fu Lu<br>I-Meng Huang | 100,000                               | 100.00                           |  |
| Ta-Ho Taitung<br>Environment Co., Ltd.   | Chairman<br>Director<br>Director<br>Supervisor<br>President      | Representative of Taiwan Cement Corporation: Qing-Song Guo<br>Representative of Taiwan Cement Corporation: Huang Chien-Chiang<br>Representative of Taiwan Cement Corporation: Chen-De Liu<br>Representative of Taiwan Cement Corporation: Wei-Ling Gao<br>Chen-De Liu            | 37,100,000                            | 100.00                           |  |
| HPC Power Services<br>Corporation        | Chairman<br>Vice Chairman<br>Director<br>Director<br>President   | Representative of Taiwan Cement Corporation: Yih-Chung Liu<br>Representative of OneEnergy Taiwan Ltd.:Kwok-Wing Ho<br>Representatives of Taiwan Cement Corporation: Qing-Song Guo and<br>Chia-Pei Wei<br>Representative of OneEnergy Taiwan Ltd.: Dick-Fai Lai<br>I-Meng Huang   | 6,000<br>4,000<br>6,000<br>4,000      | 60.00<br>40.00<br>60.00<br>40.00 |  |
| Ta-Ho RSEA Environment<br>Co., Ltd.      | Chairman<br>Director<br>Supervisor<br>President                  | Representative of Taiwan Cement Corporation: Qing-Song Guo<br>Representative of Taiwan Cement Corporation: Chen-De Liu<br>Wei-Ling Gao, Xiao-En Tseng<br>Chen-De Liu   | 66,600,000<br>-<br>-                  | 66.60                            |  |
| E.G.C. Cement Corporation                | Chairman<br>Director<br>Supervisor<br>Manager                    | Representative of Taiwan Cement Corporation: Huang Chien-Chiang<br>Representatives of Taiwan Cement Corporation: Wei-Jue Hong; Dennis<br>Chang<br>Representative of Taiwan Transport & Storage Corporation.: Chong-Zhi<br>Hong<br>Dennis Chang                                   | 8,062,600<br>7,857,400                | 50.64<br>49.36                   |  |
| Feng Shehg Enterprise<br>Company Limited | Chairman<br>Director<br>Director<br>Supervisor<br>President      | Representative of Taiwan Cement Corporation: Huang Chien-Chiang<br>Representatives of Taiwan Cement Corporation: Wei-Jue Hong,<br>Chong-Zhi Hong<br>Representatives of Quintain Steel Co., Ltd.: Chi-Sheng Chu and<br>Hsieh-Chia Chen<br>Fu-Tsai Liu<br>Chi-Sheng Chu            | 27,260,611<br>27,116,689<br>1,827,373 | 45.43<br>45.19<br>3.05           |  |

#### Profiles of directors, supervisors, and presidents of affiliates

|  |   | Type of Shares   |                                  |                              |
|--|---|--|----------------------------------|------------------------------|
| Affiliate                                      | Title   | Name or Representative   | Shareholdings                    | Percentage                   |
| Taicorn Minerals Corp.                         | Chairman<br>Director<br>Director<br>Director              | Huang Chien-Chiang<br>Katz N. Tierra<br>Yih Chin Wu<br>Renato L. Gonzales  | 1<br>1<br>1                      | 0.00<br>0.00<br>0.00<br>0.00 |
| Trans Philipines<br>Mineral Corp.              | Chairman<br>Director<br>Director<br>Director              | Huang Chien-Chiang<br>Katz N. Tierra<br>Yih Chin Wu<br>Renato L. Gonzales  | 1<br>1<br>1                      | 0.00<br>0.00<br>0.00<br>0.00 |
| TCC International Ltd.                         | Director<br>Manager                                       | Representatives of Taiwan Cement Corporation: Chang An-Ping, Koo,<br>Kung-Yi, Huang Chien-Chiang (change registration in progress)<br>Koo, Kung-Yi   | 1,100,875,900                    | 100.00                       |
| TCC International<br>Holdings Limited          | Segretarional    Kung-Yi                                  |  | 2,581,832,362<br>4,163,097,279   | 38.00<br>62.00               |
| TCC International<br>(Guangxi) Limited         |   |  | 203,000,100                      | 100.00                       |
| TCC (Guigang)<br>Cement Ltd.                   | Chairman<br>Director<br>President                         | Representative of TCC International (Guangxi) Limited: Ker-Fu Lu<br>Representatives of TCC International (Guangxi) Limited: Qiu Yu-Wen,<br>Wang Chien-Chuan<br>Qiu Yu-Wen  | Contribution:<br>USD 332,875,900 | 100.00                       |
| TCC Hong Kong Cement<br>(BVI) Holdings Limited | Director<br>Manager                                       | Representative of TCC International Holding Limited: Chang An-Ping<br>Koo, Kung-Yi   | 16,000                           | 100.00                       |
| Ulexite Investments<br>Limited                 | Director<br>Manager                                       | Representative of TCC International Holding Limited: Chang An-Ping<br>Koo, Kung-Yi   | 200                              | 100.00                       |
| HKC Investments Ltd.                           | Chairman<br>Director<br>Director<br>Supervisor<br>Manager | Representative of Ultexite Investments Limited: Chang An-Ping<br>Representative of Ultexite Investments Limited: Koo, Kung-Yi<br>Representative of Ultexite Investments Limited: Li-Wen Tsai<br>Representative of Ultexite Investments Limited: Yu-Zhi Qiu<br>Koo, Kung-Yi | Contribution:<br>NTD 155,000,000 | 100.00                       |
| TCC Hong Kong Cement<br>Development Limited    |   |  |                                  | 10.00<br>90.00<br>-          |
| TCC Hong Kong Cement<br>(QHC) Limited          | Director<br>Manager                                       | Representative of TCC Hong Kong Cement (BVI) Holdings Limited: Chang<br>An-Ping<br>Koo, Kung-Yi  | 100                              | 100.00                       |

May 10, 2019 (expressed in shares and %)

|   |                      |  | Type of Shares |            |  |
|---|----------------------|--|----------------|------------|--|
| Affiliate                                     | Title                | Name or Representative   | Shareholdings  | Percentage |  |
| Chiefolk Company Limited                      | Director             | Representatives of TCC Hong Kong Cement (QHC) Limited: Chang An-Ping, Koo, Kung-Yi   | 70,000         | 70.00      |  |
|   | Director             | Representatives of Top Form Construction Limited: Huang Chien-Chiang, Chan Cheuk Wai Alvin   | 30,000         | 30.00      |  |
|   | Manager              | Koo, Kung-Yi   | -              | -          |  |
| TCC International (Liuzhou) Limited           | Director             | Representatives of Chiefolk Company Limited: Chang An-Ping, Chan<br>Cheuk Wai Alvin, Koo, Kung-Yi                                      | 50,000         | 100.00     |  |
| (Elazhou) Ellinea                             | Manager              | Koo, Kung-Yi   | -              | -          |  |
| TCC Liuzhou Company<br>Limited                | Director<br>Manager  | Representative of TCC International (Liuzhou) Limited: Chang An-Ping<br>Koo, Kung-Yi   | 10,000         | 100.00     |  |
| TCC Hong Kong Cement<br>(Yargoon) Limited     | Director             | Representative of TCC Hong Kong Cement (BVI) Holdings Limited: Chang An-Ping   | 100            | 100.00     |  |
| (largoon) Elimited                            | Manager              | Koo, Kung-Yi   | -              | -          |  |
| TCC Hong Kong Cement<br>(HKC) Limited         | Director             | Representative of TCC Hong Kong Cement (BVI) Holdings Limited: Chang An-Ping   | 100            | 100.00     |  |
| (Fine) Ellinted                               | Manager              | Koo, Kung-Yi   | -              | -          |  |
| Koning Concrete<br>Limited <sup>11</sup>      | Director<br>Manager  | Representative of TCC Hong Kong Cement (HKC) Limited: Chang An-Ping Koo, Kung-Yi   | 99             | 99.00      |  |
| Hong Kong Cement<br>Company Limited           | Director             | Representative of TCC Hong Kong Cement (BVI) Holdings Limited: Chang An-Ping, Koo, Kung-Yi, Huang Chien-Chiang (change registration in | 10,000         | 100.00     |  |
|   | Manager              | progress) Huang Chien-Chiang (change registration in progress)   | -              | -          |  |
| TCC Hong Kong Cement<br>(Philippines) Limited | Director             | Representative of TCC Hong Kong Cement (BVI) Holdings Limited: Chang<br>An-Ping  | 100            | 100.00     |  |
| (Findphiles) Limited                          | Manager              | Koo, Kung-Yi   | -              | -          |  |
| TCC Cement Corporation                        | Director<br>Director | Huang Chien-Chiang<br>Yih Chin Wu  | 910,199        | 100.00     |  |
|   | Director             | Yu Tzu Chiu  |                |            |  |

#### Profiles of directors, supervisors, and presidents of affiliates

|   |                           |  | Type of Shares                   |            |  |
|---|---------------------------|--|----------------------------------|------------|--|
| Affiliate                                       | Title                     | Name or Representative   | Shareholdings                    | Percentage |  |
| TCC Hong Kong Cement                            | Director                  | Representative of TCC Hong Kong Cement (BVI) Holdings Limited: Chang   | 1,600                            | 100.00     |  |
| (International) Limited                         | Manager                   | An-Ping, Koo, Kung-Yi<br>Koo, Kung-Yi  | -                                | -          |  |
| TCC International                               | Director                  | Representative of TCC Hong Kong Cement (International) Limited: Chang  | 11,800                           | 100.00     |  |
| (Hong Kong) Co., Ltd.                           | Manager                   | An-Ping<br>Koo, Kung-Yi  | -                                | -          |  |
| TCC Fuzhou Yangyu<br>Port Co., Ltd.             | Chairman                  | Representative of TCC International (Hong Kong) Company Limited: Huang Chien-Chiang  | Contribution:<br>USD5,000,000    | 100.00     |  |
| Tort Co., Eta.                                  | Director                  | Representatives of TCC International (Hong Kong) Limited: Wang Chien Chuan, Chen Jia-lin   | 0303,000,000                     |            |  |
|   | Supervisor                | Yeh Guo-Hong   | -                                | -          |  |
|   | President                 | Lin Jao-Gui  | -                                | -          |  |
| TCC Liuzhou Construction<br>Materials Co., Ltd. | Chairman                  | Representatives of Guangxi Liuzhou Iron and Steel Group Company<br>Limited: Shen Liu-Ping  | Contribution:<br>USD 5,400,000   | 40.00      |  |
|   | Vice Chairman<br>Director | Representative of TCC Liuzhou Company Limited: Huang Chien-Chiang Representatives of TCC Liuzhou Company Limited: Wu Zhi-feng, Huang I         | Contribution:<br>USD 8,100,000   | 60.00      |  |
|   | Director                  | Meng, Chan Cheuk Wai Alvin<br>Representatives of Guangxi Liuzhou Iron and Steel Group Company  | As above                         | As above   |  |
|   | Supervisor                | Limited: Jin Chuang, Hsu Jian-Qiang Representative of TCC Liuzhou Company Limited: Xiao-En Tseng   | As above                         | As above   |  |
|   | Supervisor                | Representative of Guangxi Liuzhou Iron and Steel Group Company<br>Limited: Lee De-Yun  | As above                         | As above   |  |
|   | President                 | Wu Chih Feng   | -                                | -          |  |
| TCC Fuzhou Cement<br>Co., Ltd.                  | Chairman                  | Representative of TCC International (Hong Kong) Company Limited: Huang Chien-Chiang  | Contribution:<br>USD 16,250,000  | 100.00     |  |
| co., Eta.                                       | Director                  | Representative of TCC International (Hong Kong) Company Limited:<br>Wang Chien Chuan, Chen Jia-lin   | 10,230,000                       |            |  |
|   | Supervisor                | Yeh Guo-Hong Lin Jao-Gui   | -                                | -          |  |
| Anhui King Bridge                               | President<br>Chairman     | Representative of Anhui Conch Cement Co., Ltd.: Qi Sheng-Li  | Contribution:                    | 40.00      |  |
| Cement Co., Ltd. 12                             |                           |  | USD 6,000,000                    |            |  |
|   |                           | Representative of TCC International (Hong Kong) Company Limited: Huang Chien-Chiang  | Contribution:<br>USD 9,000,000   | 60.00      |  |
|   | Director                  | Representatives of International (Hong Kong) Company Limited: Tsai<br>Li-Wen (change registration in progress), Koo, Kung-Yi (change registra- |                                  |            |  |
|   | Director                  | tion in progress), Qiu Yu-Wen<br>Representatives of Anhui Conch Cement Co., Ltd.: Zhou Po, Chang   | As Above                         | As Above   |  |
|   | Supervisor                | Ming-Jing<br>Representative of TCC International (Hong Kong) Company Limited: Li,  | As Above                         | As Above   |  |
|   | Supervisor                | Jong-Peir (change registration in progress) Representative of Anhui Conch Cement Co., Ltd.: He Shu-Sheng                                       | As Above                         | As Above   |  |
|   | President                 | Zhou Peng-Fei (change registration in progress)  | -                                | -          |  |
| TCC Yingde Cement<br>Co., Ltd.                  | Chairman                  | Representative of TCC International (Hong Kong) Company Limited:<br>Ker-Fu Lu  | Contribution:<br>USD 254,400,000 | 100.00     |  |
|   | Director                  | Representative of TCC International (Hong Kong) Company Limited: Huang I Meng, Qiang Cheng-Dao   |                                  |            |  |
|   | President                 | Qiang Cheng-Dao  | -                                | _          |  |

May 10, 2019 (expressed in shares and %)

|  |   |   | Type of Shares                   |            |  |
|--|---|---|----------------------------------|------------|--|
| Affiliate  | Title   | Name or Representative  | Shareholdings                    | Percentage |  |
| Jurong TCC Cement<br>Co., Ltd.                           | Chairman  Director  Supervisor  President       | Representative of Jingyang Industrial Limited & Jiangsu TCC Investment Co., Ltd: Ker-Fu Lu Representative of Jingyang Industrial Limited & Jiangsu TCC Investment Co., Ltd: Yao Cheng-Fu, Wang Chien-Chuan, Koo, Kung-Yi, Huang I Meng Representative of Jingyang Industrial Limited & Jiangsu TCC Investment Co., Ltd: Yeh Guo-Hong Yao Cheng-Fu | Contribution:<br>USD 233,000,000 | 100.00     |  |
| Chia Hsin Cement<br>Greater China Holding<br>Corporation | Director  | Representatives of TCC International Holdings Ltd.: Chang An-Ping, Koo,<br>Kung-Yi  | 1,142,900,000                    | 100.00     |  |
| Jingyang Industrial<br>Limited                           | Director  | Representative of TCC International (Hong Kong) Company Limited:<br>Chang An-Ping, Koo, Kung-Yi   | 24,000,100                       | 100.00     |  |
| JiangSu TCC<br>Investment Co., Ltd.                      | Chairman  Director  Supervisor  President       | Representative of TCC International (Hong Kong) Company Limited: Ker-Fu Lu Representative of TCC International (Hong Kong) Company Limited: Huang Chien-Chiang, Wang Chi May Representatives TCC International (Hong Kong) Company Limited: Huang Hong-Zhen Wu Hai-Hau  | Contribution:<br>USD 50,000,000  | 100.00     |  |
| Upper Value<br>Investments Limited                       | Director<br>Manager                             | Representative of TCC International Holdings Limited: Chang An-Ping<br>Koo, Kung-Yi   | 12,700<br>-                      | 100.00     |  |
| Prosperity Cement<br>Investment Limited                  | Director<br>Manager                             | Representative of Upper Value Investments Limited: Chang An-Ping<br>Koo, Kung-Yi  | 10,100                           | 100.00     |  |
| Yingde Dragon<br>Mountain Cement Co., Ltd.               | Chairman<br>Director<br>Supervisor<br>President | Representative of Prosperity Cement Investment Limited: Ker-Fu Lu<br>Representatives of Prosperity Cement Investment Limited: Wu Tie-Jun,<br>Koo, Kung-Yi, Zhong-Hung Pan<br>Lee Shao-Ming<br>Ja Dao-Qiu  | Contribution:<br>RMB 428,110,000 | 100.00     |  |
| Prosperity Minerals<br>(International) Limited           | Director<br>Manager                             | Representative of Upper Value Investment Limited: Chang An-Ping<br>Koo, Kung-Yi   | 3 -                              | 100.00     |  |
| Kiton Limited  | Director<br>Manager                             | Representative of Upper Value Investments Limited: Chang An-Ping<br>Koo, Kung-Yi  | 10,400                           | 100.00     |  |

#### Profiles of directors, supervisors, and presidents of affiliates

|  |   |   | Type of Shares                   |            |  |
|--|---|---|----------------------------------|------------|--|
| Affiliate  | Title   | Name or Representative  | Shareholdings                    | Percentage |  |
| TCC Liaoning<br>Cement Company Limited                                       | Chairman<br>Director<br>Supervisor<br>President | Representative of Kiton Limited: Koo, Kung-Yi<br>Representatives of Kiton Limited: Ker-Fu Lu, Huang Lin-Tien<br>Representative of Kiton Limited: Tsai Li-Wen<br>Peng Zhi-Heng   | Contribution:<br>RMB 371,000,000 | 100.00     |  |
| Hensford Ltd.  | Director<br>Manager                             | Representative of Upper Value Investments Limited: Chang An-Ping<br>Koo, Kung-Yi  | 10,500                           | 100.00     |  |
| TCC Anshun Cement<br>Company Limited   | Chairman<br>Director<br>Supervisor<br>President | Representative of Hensford Ltd: Koo, Kung-Yi<br>Representatives of Hensford Ltd.: Huang Chien-Chiang, Ker-Fu Lu, Tsai<br>Li-Wen<br>Representative of Hensford Ltd: Yao Cheng-Fu<br>Wang Shi-Ming  | Contribution:<br>USD 153,490,000 | 100.00     |  |
| Sure Kit Ltd. Director<br>Manager  |   | Representative of Upper Value Investments Limited: Chang An-Ping<br>Koo, Kung-Yi  | 10,400                           | 100.00     |  |
| TCC Chongqing Cement<br>Company Limited                                      | Chairman<br>Director<br>Supervisor<br>President | Representative of Sure Kit Limited: Koo, Kung-Yi<br>Representatives of Sure Kit Limited: Ker-Fu Lu, Huang Chien-Chiang<br>Representative of Sure Kit Limited: Yao Cheng-Fu<br>Wang Jao-wen  | Contribution:<br>USD 118,000,000 | 100.00     |  |
| Prime York Ltd.  | Director<br>Manager                             | Representative of Upper Value Investment Limited: Chang An-Ping<br>Koo, Kung-Yi   | 10,300                           | 100.00     |  |
| Prosperity Minerals<br>(China) Limited                                       | Director<br>Manager                             | Representative of Upper Value Investments Limited: Chang An-Ping<br>Koo, Kung-Yi  | 10,300                           | 100.00     |  |
| Mega East Limited  | Director<br>Manager                             | Representative of Upper Value Investments Limited: Chang An-Ping<br>Koo, Kung-Yi  | 10,300                           | 100.00     |  |
| TCC Guangan Cement<br>Company Limited  | Chairman<br>Director<br>Supervisor<br>President | Representative of Mega East Limited: Tsai Li-Wen<br>Representatives of Mega East Limited: Ker-Fu Lu, Huang Chien-Chiang<br>Representative of Mega East Limited: Yao Cheng-Fu<br>Yang Tao  | Contribution:<br>USD 76,990,000  | 100.00     |  |
| TCC (DongGuan) Cement Chairman Company Limited Director Supervisor President |   | Representative of TCC International (Hong Kong) Company Limited:<br>Huang Chien-Chiang<br>Representative of TCC International (Hong Kong) Company Limited:<br>Huang I Meng, Ker-Fu Lu<br>Representative of TCC International (Hong Kong) Company Limited: Yu<br>Chin Lung<br>Lin Bo-Jun | Contribution:<br>USD 20,000,000  | 100.00     |  |
| TCC International (China)<br>Company Limited                                 | Director<br>Manager                             | Representative of Upper Value Investments Limited: Chang An-Ping<br>Koo, Kung-Yi  | 38,830                           | 100.00     |  |
| TCC New (Hangzhou)<br>Management Company<br>Limited                          | Chairman  Director  Supervisor  President       | Representative of TCC International (China) Company Limited: Li, Jong-Peir Representatives of TCC International (China) Company Limited: Ker-Fu Lu, Tsai Li-Wen, Huang Chien-Chiang Representative of TCC International (China) Company Limited: Koo, Kung-Yi Yao Cheng-Fu              | Contribution:<br>USD8,000,000    | 100.00     |  |

May 10, 2019 (expressed in shares and %)

|   |   |  | Type of Shares                   |            |  |
|---|---|--|----------------------------------|------------|--|
| Affiliate                                       | Title   | Name or Representative   | Shareholdings                    | Percentage |  |
| Kong On Cement<br>Holdings Ltd.                 | Director  | Representatives of Upper Value Investments Limited: Chang An-Ping,<br>Koo, Kung-Yi   | 15,801,500                       | 65.00      |  |
|   | Director<br>Manager                             | Representative of Central Champion Investment: Limited: Xu Jie Lian<br>Koo, Kung-Yi  | 8,508,500<br>-                   | 35.00<br>- |  |
| Guizhou Kong On<br>Cement Co Ltd                | Chairman<br>Director                            | Representative of Kong On Cement Holdings Limited: Tsai Li-Wen<br>Representatives of Kong On Cement Holdings Limited: Huang Chien-Chi-<br>ang, Xu JieLian  | Contribution:<br>USD 20,300,000  | 100.00     |  |
|   | Supervisor<br>President                         | Representative of Kong On Cement Holdings Limited: Yao Cheng-Fu, Xu<br>JieLian<br>Wang Shi-Ming  | -                                | -          |  |
| Wayly Holdings Limited                          | Director<br>Manager                             | Representative of Upper Value Investments Limited: Chang An-Ping<br>Koo, Kung-Yi   | 10,501                           | 100.00     |  |
| Guizhou Kaili Rui An<br>Jian Cai Co., Ltd.      | Chairman<br>Director<br>Supervisor              | Representative of Wayly Holdings Limited: Tsai Li-Wen<br>Representatives of Wayly Holdings Limited: Ker-Fu Lu, Yao Cheng-Fu<br>Representative of Wayly Holdings Limited: Wang Chien Chuan  | Contribution:<br>RMB 389,660,500 | 100.00     |  |
|   | President                                       | Qiao Sheng-Tao   | -                                | -          |  |
| TCC Shaoguan<br>Cement Co., Ltd.                | Chairman<br>Director<br>Supervisor<br>President | Representative of TCC International (Hong Kong) Co., Ltd: Ker-Fu Lu Representatives of TCC International (Hong Kong) Co., Ltd.: Huang I Meng, Huang Chien-Chiang Representative of TCC International (Hong Kong) Co., Ltd: Lan Cen-Wei | Contribution:<br>USD 40,000,000  | 100.00     |  |
|   |   | Li Ming-De   | -                                | -          |  |
| TCC Yingde Mining<br>Industrial Company Limited | Chairman<br>I                                   | Representative of TCC International (Hong Kong) Co., Ltd: Ker-Fu Lu  | Contribution:<br>USD 5,625,000   | 48.91      |  |
|   | Director  | Representative of TCC Yingde Cement Co., Ltd.: Qiang Cheng-Dao   | Contribution:<br>USD 4,000,000   | 34.78      |  |
|   | Director  | Representative of TCC Jiangsu Mining Industrial Company Limited: Liang Shih-Sheng  | Contribution: USD 1,875,000      | 16.31      |  |
|   | Supervisor<br>President                         | Cen-Wei Lan<br>Qiang Cheng-Dao   | -<br>-                           | -          |  |
| TCC Guigang Mining<br>Industrial Company        | Chairman  | Representative of TCC International (Hong Kong) Co., Ltd: Ker-Fu Lu  | Contribution:<br>USD 2,625,000   | 52.50      |  |
| Limited   | Director  | Representatives of TCC (Guigang) Cement Ltd.: Song Chen-Chia and Wei<br>Chia-Pei   | Contribution: USD 2,375,000      | 47.50      |  |
|   | Supervisor<br>President                         | Song Yuo-Xin<br>Qiu Yu-Wen   | -                                | -          |  |

#### Profiles of directors, supervisors, and presidents of affiliates

|   |   |  | Type of Shares                  |                          |  |
|---|---|--|---------------------------------|--------------------------|--|
| Affiliate   | Title                                       | Name or Representative   | Shareholdings                   | Percentage               |  |
| TCC Jiangsu Mining Chairman Industrial Company Director Limited |   | Representative of TCC International (Hong Kong) Co., Ltd: Ker-Fu Lu<br>Representatives of TCC International (Hong Kong) Co., Ltd.: Yao Cheng-Fu,<br>Koo, Kung-Yi                       | Contribution:<br>USD 4,000,000  | 100.00                   |  |
| Limited   | Supervisor<br>President                     | Representative of TCC International (Hong Kong) Co., Ltd: Yeh Guo-Hong<br>Yao Cheng-Fu   | -                               | -                        |  |
| Anshun Xin Tai Construction Materials                           | Chairman                                    | Representative of TCC Anshun Cement Company Limited: Huang Lin-Tien  | Contribution:<br>RMB 15,000,000 | 100.00                   |  |
| Company Limited   | President<br>Supervisor                     | Hu Guo-Hong (change registration in progress) Song Yuo-Xin   |                                 | -<br>-                   |  |
| Scitus Cement (China)<br>Holdings Limited                       | Director<br>Director<br>Director<br>Manager | Representative of Upper Value Investments Limited: Chang An-Ping<br>Representative of TCC International (Hong Kong) Co., Ltd: Chang An-Ping<br>Ker-Fu Lu, Koo, Kung-Yi<br>Koo, Kung-Yi | 109,163,251<br>1<br>-<br>-      | 100.00<br>0.00<br>-<br>- |  |
| Scitus Cement (China)<br>Operating Company<br>Limited           | Director<br>Manager                         | Representative of Scitus Cement (China) Holdings Limited: Chang An-Ping<br>Koo, Kung-Yi  | 10,000                          | 100.00                   |  |
| Hexagon Holdings<br>Limited                                     | Director<br>Manager                         | Representative of Scitus Cement (China) Holdings Limited: Chang An-Ping<br>Koo, Kung-Yi  | 1 -                             | 100.00                   |  |
| Hexagon II Holdings<br>Limited                                  | Director<br>Manager                         | Representative of Scitus Cement (China) Holdings Limited: Chang An-Ping<br>Koo, Kung-Yi  | 1 -                             | 100.00                   |  |
| Hexagon III Holdings<br>Limited                                 | Director<br>Manager                         | Representative of Scitus Cement (China) Holdings Limited: Chang An-Ping<br>Koo, Kung-Yi  | 201                             | 100.00                   |  |
| Hexagon IV Holdings<br>Limited                                  | Director<br>Manager                         | Representative of Scitus Cement (China) Holdings Limited: Chang An-Ping<br>Koo, Kung-Yi  | 201                             | 100.00                   |  |
| Hexagon V Holdings<br>Limited                                   | Director<br>Manager                         | Representative of Scitus Cement (China) Holdings Limited: Chang An-Ping<br>Koo, Kung-Yi  | 1 -                             | 100.00                   |  |
| Upper Value<br>Investment Ltd.                                  | Director<br>Manager                         | Representative of TCC International Holdings Limited: Chang An-Ping<br>Koo, Kung-Yi  | 1 -                             | 100.00                   |  |
| Hexagon VIII Holdings<br>Limited                                | Director<br>Manager                         | Representative of Scitus Cement (China) Holdings Limited: Chang An-Ping<br>Koo, Kung-Yi  | 1 -                             | 100.00                   |  |
| Hexagon IX Holdings<br>Limited                                  | Director<br>Manager                         | Representative of Scitus Cement (China) Holdings Limited: Chang An-Ping<br>Koo, Kung-Yi  | 1 -                             | 100.00                   |  |
| Hexagon XIII Holdings<br>Limited                                | Director<br>Manager                         | Representative of Scitus Cement (China) Holdings Limited: Chang An-Ping<br>Koo, Kung-Yi  | 1 -                             | 100.00                   |  |
| Hexagon XIV Holdings<br>Limited                                 | Director<br>Manager                         | Representative of Scitus Cement (China) Holdings Limited: Chang An-Ping<br>Koo, Kung-Yi  | 1 -                             | 100.00                   |  |

May 10, 2019 (expressed in shares and %)

|                                       |                         |  | Type of Shares                   |                      |  |
|---------------------------------------|-------------------------|--|----------------------------------|----------------------|--|
| Affiliate                             | Title                   | Name or Representative   | Shareholdings                    | Percentage           |  |
| Scitus Luzhou Cement<br>Co.,Ltd.      | Chairman                | Representative of Hexagon IV Holdings Limited: Yao Cheng-Fu  | Contribution:<br>RMB 355,500,000 | 90.00                |  |
|                                       | Vice Chairman           | Representative of TCC Yingde Cement Co., Ltd.: Tsai Li-Wen   | Contribution:<br>RMB 39,500,000  | 10.00                |  |
|                                       | Director                | Representatives of Hexagon IV Holdings Limited: Ker-Fu Lu, Huang Chien-Chiang  | As above                         | As above             |  |
|                                       | Supervisor<br>President | Representative of Hexagon IV Holdings Limited: Wang Yan-Xiang<br>Yang Zhong-Hong   | As above<br>-                    | As above<br>-        |  |
| Scitus Hejiang Cement<br>Co., Ltd.    | Chairman                | Representative of Hexagon IX Holdings Limited: Yao Cheng-Fu  | Contribution:<br>RMB20,925,000   | 90.00                |  |
|                                       | Vice Chairman           | Representative of TCC Yingde Cement Co., Ltd.: Tsai Li-Wen   | Contribution:<br>RMB 2,325,000   | 10.00                |  |
|                                       | Director                | Representative of Hexagon IX Holdings Limited: Ker-Fu Lu   | As above                         | As above             |  |
|                                       | Supervisor<br>President | Representative of Hexagon IX Holdings Limited: Wang Yan-Xiang<br>Yang Zhong-Hong   | As above<br>-                    | As above<br>-        |  |
| Scitus Luzhou<br>Concrete Co., Ltd.   | Chairman                | Representative of Hexagon XIV Holdings Limited: Yao Cheng-Fu   | Contribution:<br>RMB 18,750,000  | 75.00                |  |
|                                       | Vice Chairman           | Representative of TCC Yingde Cement Co., Ltd.: Tsai Li-Wen   | Contribution:<br>RMB 6,250,000   | 25.00                |  |
|                                       | Director<br>Supervisor  | Representatives of Hexagon XIV Holdings Limited: Ker-Fu Lu<br>Representative of Hexagon XIV Holdings Limited: Wang Yen-Xiang | As above                         | As above<br>As above |  |
|                                       | President               | Yang Zhong-Hong  | As above<br>-                    | - AS above           |  |
| Scitus Naxi Cement<br>Co., Ltd.       | Chairman                | Representative of Hexagon III Holdings Limited: Yao Cheng-Fu   | Contribution:<br>RMB 131,859,000 | 90.00                |  |
| ,                                     | Vice Chairman           | Representative of TCC Yingde Cement Co., Ltd.: Tsai Li-Wen   | Contribution:<br>RMB14,651,000   | 10.00                |  |
|                                       | Director                | Representative of Hexagon III Holdings Limited: Ker-Fu Lu  | As above                         | As above             |  |
|                                       | Supervisor<br>President | Representative of Hexagon III Holdings Limited: Wang Yan-Xiang<br>Dong Gao-Ying  | As above<br>-                    | As above<br>-        |  |
| TCC Huaying Cement<br>Company Limited | Chairman                | Representative of TCC (Guigang) Cement Ltd.: Ker-Fu Lu   | Contribution:<br>RMB 949,880,000 | 100.00               |  |
| company Emitted                       | Director                | Representative of TCC (Guigang) Cement Ltd.: Yao Cheng-Fu, Koo, Kung-Yi  | 13,000,000                       |                      |  |
|                                       | Supervisor<br>President | Representative of TCC (Guigang) Cement Ltd.: Xiao-En Tseng<br>Wang Dao-Ping  | -                                | -                    |  |
| TCC Huaihua Cement<br>Company Limited | Chairman                | Representative of TCC International (Hong Kong) Co., Ltd: Ker-Fu Lu  | Contribution:<br>RMB 93,000,000  | 100.00               |  |
|                                       | Director                | Representatives of TCC International (Hong Kong) Co., Ltd.: Yao Cheng-Fu,  | 22,000,000                       |                      |  |
|                                       | Supervisor<br>President | Koo, Kung-Yi<br>Representative of TCC International (Hong Kong) Co., Ltd: Yeh Guo-Hong<br>Yao Cheng-Fu                       |                                  | _                    |  |
|                                       |                         | ido Cheng i u  |                                  |                      |  |

#### Profiles of directors, supervisors, and presidents of affiliates

|   |                         |  | Type of Shares                   |            |  |
|---|-------------------------|--|----------------------------------|------------|--|
| Affiliate   | Title                   | Name or Representative   | Shareholdings                    | Percentage |  |
| TCC Jingzhou<br>Cement Company<br>Limited                         | Chairman<br>Director    | Representative of TCC Huaihua Cement Company Limited: Ker-Fu Lu<br>Representative of TCC Huaihua Cement Company Limited: Yao Cheng-Fu,<br>Koo, Kung-Yi | Contribution:<br>RMB 10,000,000  | 100.00     |  |
|   | Supervisor<br>President | Yeh Guo-Hong<br>Yang Zhong-Hong  | -                                | -          |  |
| TCC Huaihua<br>Concrete Company<br>Limited                        | Chairman<br>Director    | Representative of TCC Huaihua Cement Company Limited: Ker-Fu Lu<br>Representative of TCC Huaihua Cement Company Limited: Yao Cheng-Fu,<br>Koo, Kung-Yi | Contribution:<br>RMB 10,000,000  | 100.00     |  |
|   | Supervisor<br>President | Yeh Guo-Hong<br>Yao Cheng-Fu   | -                                | -          |  |
| Guigang TCC<br>Dongyuan   | Chairman<br>Director    | Representative of TCC (Guigang) Cement Company Limited: Qiu Yu Wen<br>Representative of TCC (Guigang) Cement Company Limited: Wang Chien               | Contribution:<br>RMB 12,000,000  | 95.24      |  |
| Environmental<br>Protection Technology<br>Co., Ltd. <sup>13</sup> | Supervisor<br>President | Chuan, Hai-Hau Wu<br>Wang Yan-Xiang<br>Hai-Hau Wu  | -                                | -          |  |
| Taiwan Cement<br>(Dutch) Holdings<br>B.V. <sup>14</sup>           | Director                | Representative of Taiwan Cement Corporation: Li, Jong-Peir, Li-Wen Tsai, Huang Chien-Chiang  | Contribution:<br>EUR 831,431,000 | 100        |  |

 $<sup>^{1}\</sup>mbox{Ho}$  Shun Construction Materials Corporation was completed liquidation procedure in December 2018.

<sup>&</sup>lt;sup>2</sup> TCEC Corporation's cancellation was completed in December 2018.

 $<sup>^{\</sup>rm 3}\textsc{Tong}$  Yu Industrial Corporation was renamed TCC Green Energy Corporation in March 2018.

<sup>&</sup>lt;sup>4</sup>TCC Jiachien Green Energy Co., Ltd was founded on May 4, 2018.

<sup>&</sup>lt;sup>5</sup>TCC Yunkai Green Energy Co., Ltd was founded on May 4, 2018.

<sup>&</sup>lt;sup>6</sup>TCC Lianshin Green Energy Co., Ltd was founded on May 8, 2018.

<sup>&</sup>lt;sup>7</sup> TCC Changhe Green Energy Co., Ltd was founded on July 10, 2018.
<sup>8</sup> TCC Kaocheng Green Energy Co., Ltd was founded on July 18, 2018.

<sup>&</sup>lt;sup>9</sup> TCC Nanchung Green Energy Co., Ltd was founded on September 6, 2018.

<sup>&</sup>lt;sup>10</sup> Changwon Wind Power Generation Co., Ltd was founded on December 12, 2018.

<sup>&</sup>lt;sup>11</sup>Koning Concrete Ltd.'s cancellation was completed in August 2018.

<sup>&</sup>lt;sup>12</sup> Anhui King Bridge Cement Co., Ltd.s cancellation was completed in January 2019.

<sup>&</sup>lt;sup>13</sup> Guigang TCC Dongyuan Environmental Protection Technology Co., Ltd. was founded on June 7, 2018.

<sup>&</sup>lt;sup>14</sup> Taiwan Cement (Dutch) Holdings B.V was founded on November 8, 2018.

| odomeso memeris or anniaces                         |  |                |                   |                |               |                        |                    | 2018.12.31 (expressed in N1\$ thousands) |
|---|--|----------------|-------------------|----------------|---------------|------------------------|--------------------|--|
| Affiliate   | Capital amount   | Total asset    | Total liabilities | Net worth      | Revenue       | Profit from operations | Profit (after tax) | EPS (NT\$) (after tax)                   |
| Taiwan Transport & Storage Corporation              | 389,620  | 2,563,651      | 397,833           | 2,165,817      | 1,251,745     | 61,847                 | 161.612            | 4.15                                     |
| Ho Swen Construction Material Co., Ltd.1            | -  | -              | -                 | -              | -             | -                      | -                  | -  |
| Taiwan Cement Engineering Corporation               | 601,656  | 791,905        | 62,590            | 729,315        | 857           | (2,138)                | 11,506             | 0.19                                     |
| TCEC Corporation (Darussalam, Brunei) <sup>2</sup>  | 16,295   | -              | -                 | -              | -             | -                      | -                  | -  |
| TCC (Yingde) Machinery Co., Ltd.                    | RMB 4,075,000  | RMB 42,071,945 | RMB 3,647,059     | RMB 38,424,886 | RMB 6,286,911 | RMB 5,509,549          | RMB 13,182,655     | NA                                       |
| Kuan-Ho Refractories Industry Corporation           | 190,000  | 1,000,783      | 524,438           | 476,345        | 1,387,978     | 163,049                | 123,697            | 6.51                                     |
| TCC Green Energy Corporation <sup>3</sup>           | 1,508,987  | 1,505,475      | 27,295            | 1,478,180      | 7,105         | (11,566)               | (50,285)           | (0.68)                                   |
| TCC CHIA-CHIEN Green Energy Corporation⁴            | 202,000  | 174,017        | 200               | 173,817        | 0             | (28,233)               | (28,183)           | (2.23)                                   |
| TCC YUN-KAI Green Energy Corporation⁵               | 25,000   | 22,912         | 30                | 22,882         | 0             | (2,122)                | (2,118)            | (1.92)                                   |
| TCC LIEN-HSIN Green Energy Corporation <sup>6</sup> | 12,000   | 11,402         | 2,035             | 9,367          | 0             | (2,629)                | (2,633)            | (12.34)                                  |
| TCC CHANG-HO Green Energy Corporation <sup>7</sup>  | 5,000  | 2,983          | 495               | 2,488          | 0             | (2,513)                | (2,512)            | (5.02)                                   |
| TCC KAO-CHENG Green Energy Corporation <sup>8</sup> | 12,000   | 11,981         | 2,035             | 9,946          | 0             | (2,049)                | (2,054)            | (9.17)                                   |
| TCC NAN-CHUNG Green Energy Corporation <sup>9</sup> | 20,000   | 17,983         | 30                | 17,953         | 0             | (2,050)                | (2,047)            | (1.02)                                   |
| CHANG-WANG Wind Power Co., Ltd <sup>10</sup>        | 120,000  | 150,011        | 30,341            | 119,670        | 0             | (347)                  | (330)              | (0.03)                                   |
| Hong Kong Cement Manufacturing Company Limited      | HKD 45,000,000   | HKD71,787,771  | HKD239,920        | HKD71,547,851  | HKD1,911,850  | HKD(226,922)           | HKD(226,922)       | NA                                       |
| TCC Development Limited                             | Ordinary shares: USD 10<br>Non-voting deferred<br>shares: USD 90 | HKD66,772,716  | HKD2,095,196      | HKD64,677,520  | HKD16,287,462 | HKD13,461,072          | HKD11,309,208      | HKD113,092.08                            |
| Ta-Ho Maritime Corporation                          | 1,831,367  | 7,414,815      | 3,870,264         | 3,544,551      | 3,074,796     | 341,031                | 336,313            | 1.84                                     |
| Ta-Ho Maritime Holdings Limited                     | USD10,300,000  | USD136,718,000 | USD9,000          | USD136,709,000 | USD 0         | (US\$6,000)            | USD6,267,000       | USD0.61                                  |
| THC International S.A.                              | USD2,010,000   | USD86,673,000  | USD765,000        | USD85,908,000  | USD7,568,000  | (US\$2,348,000)        | USD3,261,000       | USD1,622.39                              |
| Chi Ho Maritime S.A.                                | USD6,510,000   | USD11,828,000  | USD223,000        | USD11,605,000  | USD1,665,000  | (US\$68,000)           | USD145,000         | USD22.27                                 |
| Sheng Ho Maritime S.A.                              | USD2,010,000   | USD15,420,000  | USD277,000        | USD15,143,000  | USD2,664,000  | (US\$449,000)          | (US\$290,000)      | USD(144.28)                              |
| Ta-Ho Maritime (Hong Kong) Limited                  | USD5,100,000   | USD21,284,000  | USD12,000         | USD21,272,000  | USD 0         | (US\$20,000)           | USD3,130,000       | USD0.61                                  |
| Ta-Ho Maritime (Singapore) Pte. Ltd.                | USD100,000   | USD2,450,000   | USD35,000         | USD2,415,000   | USD 0         | (US\$30,000)           | USD18,000          | USD0.18                                  |
|   |  |                |                   |                |               |                        |                    |  |

| admicad mignification annuated                      |   |                   |                   |                   |                |                        |                    | 2018.12.31 (expressed in N15 thousand |
|---|---|-------------------|-------------------|-------------------|----------------|------------------------|--------------------|---------------------------------------|
| Affiliate   | Capital amount                          | Total asset       | Total liabilities | Net worth         | Revenue        | Profit from operations | Profit (after tax) | EPS (NT\$) (after tax)                |
| Da Tong (Guigang) International Logistics Co., Ltd. | USD5,000,000                            | RMB163,192,000    | RMB20,930,000     | RMB142,262,000    | RMB82,231,000  | RMB4,175,000           | RMB20,750,000      | NA                                    |
| Guigang Da-Ho shipping Co., ltd.                    | RMB4,000,000                            | RMB112,356,000    | RMB37,551,000     | RMB74,805,000     | RMB225,434,000 | RMB18,020,000          | RMB13,932,000      | NA                                    |
| Da Tong (Ying De) Logistics Co., Ltd.               | RMB5,000,000                            | RMB30,008,000     | RMB8,173,000      | RMB21,835,000     | RMB23,473,000  | RMB4,081,000           | RMB3,365,000       | NA                                    |
| TCC Investment Corporation                          | 631,500                                 | 5,270,046         | 2,170,341         | 3,099,705         | 0              | (2,387)                | 207,697            | 3.30                                  |
| Union Cement Traders Inc.                           | 219,450                                 | 1,552,010         | 851,106           | 700,904           | 0              | (225)                  | 85,616             | 3.90                                  |
| TCC Chemical Corporation                            | 2,400,000                               | 3,732,112         | 2,267,835         | 1,464,277         | 132,848        | 97,071                 | 41,272             | 0.17                                  |
| TCC Information Systems Corporation                 | 150,000                                 | 349,918           | 96,350            | 253,568           | 229,769        | 13,317                 | 9,042              | 0.60                                  |
| Taicem Information (Samoa) Pte., Ltd.               | 3,412                                   | 59,713            | 10,643            | 49,070            | -              | (35)                   | 2,387              | NA                                    |
| Fuzhou TCC Information Technology Co., Ltd.         | RMB 826,510                             | RMB 9,852,137     | RMB 388,109       | RMB 9,464,027     | RMB 1,555,831  | RMB 617,430            | RMB 484,666        | NA                                    |
| Taiwan Prosperity Chemical Corporation              | 2,919,750                               | 11,514,529        | 7,981,287         | 3,533,242         | 15,166,053     | 338,047                | 332,064            | 1.14                                  |
| Tung Chen Mineral Corporation                       | 2,000                                   | 1,390             | 30                | 1360              | 0              | (43)                   | (42)               | (2.09)                                |
| Jin Chang Minerals Corporation                      | 18,000                                  | 302,860           | 191,311           | 111,549           | 589,037        | 113,659                | 90,474             | 50.26                                 |
| Hoping Industrial Port Corporation                  | 3,200,000                               | 7,650,080         | 1,991,465         | 5,658,615         | 1,583,732      | 973,561                | 740,169            | 2.31                                  |
| Ho-Ping Power Company                               | 13,545,215                              | 38,653,110        | 9,980,898         | 28,672,212        | 12,777,360     | 3,496,014              | 2,390,778          | 1.77                                  |
| Ho-Ping Renewable Energy Company                    | 1,000                                   | 1,000             | 0                 | 1,000             | 0              | 0                      | 0                  | 0                                     |
| Ta-Ho Taitung Environment Co., Ltd.                 | 371,000                                 | 340,876           | 43,688            | 297,188           | -              | (217)                  | 859                | 0.02                                  |
| HPC Power Services Corporation                      | 3,107                                   | 288,701           | 97,939            | 190,762           | 417,256        | 231,598                | 185,738            | NA                                    |
| Ta-Ho RSEA Environment Co., Ltd.                    | 1,000,000                               | 3,685,351         | 3,384,403         | 300,948           | -              | (11,204)               | (10,004)           | (0.10)                                |
| E.G.C. Cement Corporation                           | 159,200                                 | 276,968           | 72,446            | 204,522           | 452,003        | 26,596                 | 10,872             | 0.68                                  |
| Feng Shehg Enterprise Company Limited               | 600,000                                 | 2,203,712         | 1,436,736         | 766,976           | 2,349,418      | 35,602                 | 36,546             | 0.61                                  |
| Ho Sheng Mining Co., Ltd.                           | 301,000                                 | 297,185           | 174,068           | 125,117           | 469,437        | 54,417                 | 55,392             | 1.84                                  |
| Taicorn Minerals Corp.                              | PHP 16,500,000                          | -                 | PHP 35,201,000    | (PHP 35,201,000)  | -              | -                      | -                  | NA                                    |
| Trans Philipines Mineral Corp.                      | PHP 5,000,000                           | -                 | PHP 10,004,000    | (PHP10,004,000)   | -              | -                      | -                  | NA                                    |
| TCC International Limited                           | USD 1,100,876,000                       | HKD15,984,811,835 | HKD414,690,099    | HKD15,570,121,736 | HKD171,312,596 | HKD(10,448,258)        | HKD(27,427,701)    | NA                                    |
| TCC International Holdings Ltd.                     | Common share capital<br>HKD 674,492,964 | HKD26,229,099,943 | HKD4,209,684,984  | HKD22,019,414,959 | HKD105,146,789 | HKD(304,691,967)       | HKD(304,893,598)   | NA                                    |
| TCC International (Guangxi) Limited                 | USD 203,000,000                         | HKD2,588,637,686  | HKD78,392,271     | HKD2,510,245,416  | HKD12,616      | HKD(8,573,034)         | HKD(8,573,034)     | NA                                    |

| usiness nignlights of aπiliates                       |   |                   |                   |                   |                  |                        |                    | 2018.12.31 (expressed in NT\$ thousands) |
|---|---|-------------------|-------------------|-------------------|------------------|------------------------|--------------------|--|
| Affiliate   | Capital amount  | Total asset       | Total liabilities | Net worth         | Revenue          | Profit from operations | Profit (after tax) | EPS (NT\$) (after tax)                   |
| TCC (Guigang) Cement Ltd.                             | USD 332,875,900   | HKD6,827,954,752  | HKD1,369,664,308  | HKD5,458,290,444  | HKD3,570,103,698 | HKD1,199,899,167       | HKD904,807,324     | NA                                       |
| TCC Hong Kong Cement (BVI) Holdings Ltd.              | USD 16,000  | HKD10,410,722,124 | HKD3,328,171      | HKD10,407,393,953 | HKD26,873,903    | HKD23,784,250          | HKD23,784,250      | HKD1,486.52                              |
| Ulexite Investments Ltd.                              | USD200  | HKD39,758,902     | -                 | HKD39,758,902     | HKD239           | HKD(6,463)             | HKD(6,463)         | NA                                       |
| HKC Investments Limited                               | 155,000   | HKD65,396,208     | HKD39,000         | HKD65,357,208     | -                | HKD(6,373)             | HKD(6,373)         | NA                                       |
| TCC Hong Kong Cement Development Ltd.                 | Ordinary shares: USD 10<br>Non-voting deferred shares: USD 90 | HKD79,967,016     | HKD7,179,276      | HKD72,787,740     | HKD960,000       | HKD(640,587)           | HKD(495,488)       | NA                                       |
| TCC Hong Kong Cement (QHC) Ltd.                       | USD100  | HKD18,114,340     | -                 | HKD18,114,340     | HKD23,730,000    | HKD23,723,838          | HKD23,723,838      | HKD237,238.38                            |
| Chiefolk Company Ltd.                                 | HKD 1,000,000   | HKD47,706,127     | HKD40,000         | HKD47,666,127     | HKD33,901,024    | HKD33,858,019          | HKD33,858,019      | HKD338.58                                |
| TCC International (Liuzhou) Ltd.                      | USD50,000   | HKD929,660        | HKD610,648        | HKD319,012        | HKD13,900,000    | HKD13,426,141          | HKD13,426,141      | HKD268.52                                |
| TCC Liuzhou Company Ltd.                              | HKD10,000   | HKD63,000,356     | HKD20,000         | HKD62,980,356     | HKD8,827,920     | HKD8,783,785           | HKD7,900,993       | HKD790.10                                |
| TCC Hong Kong Cement (Yargoon) Ltd.                   | USD100  | HKD3,367,430      | -                 | HKD3,367,430      | -                | HKD(6,162)             | HKD(6,162)         | NA                                       |
| TCC Hong Kong Cemenet (HKC) Ltd.                      | USD100  | HKD4,946          | -                 | HKD4,946          | -                | HKD(721,550)           | HKD(721,550)       | NA                                       |
| Koning Concrete Ltd. <sup>11</sup>                    | HKD100  | -                 | -                 | -                 | -                | -                      | -                  | NA                                       |
| Hong Kong Cement Company Ltd.                         | HKD 164,391,000   | HKD224,440,379    | HKD15,228,696     | HKD209,211,683    | HKD138,761,685   | HKD4,012,314           | HKD4,147,339       | HKD414.73                                |
| TCC Hong Kong Cement (Philippines) Ltd.               | USD100  | HKD22,233,162     | HKD6,148,468      | HKD16,084,694     | -                | HKD(6,162)             | HKD(6,162)         | NA                                       |
| TCC Cement Corporation                                | Peso 91,020,500   | HKD11,258,702     | HKD9,324,599      | HKD1,934,103      | -                | -                      | -                  | NA                                       |
| TCC Hong Kong Cement (International) Ltd.             | USD 1,600   | HKD9,938,777,782  | HKD310,462,298    | HKD9,628,315,483  | HKD57            | HKD(19,404,222)        | HKD(19,404,222)    | NA                                       |
| TCC International (Hong Kong) Company<br>Limited      | HKD 9,935,122,694   | HKD10,032,416,861 | HKD7,718,215      | HKD10,024,698,647 | HKD71,262,391    | HKD71,200,660          | HKD71,200,660      | HKD6,033.95                              |
| TCC Fuzhou Yangyu Port Co., Ltd.                      | USD 5,000,000   | HKD73,506,951     | HKD518,764        | HKD72,988,187     | HKD9,359,698     | HKD(111,134)           | HKD(135,399)       | NA                                       |
| TCC Liuzhou Construction Materials<br>Company Limited | USD 13,500,000  | HKD293,126,494    | HKD25,096,511     | HKD268,029,983    | HKD286,897,736   | HKD54,478,495          | HKD47,312,311      | NA                                       |
| TCC Fuzhou Cement Co., Ltd.                           | USD 16,250,000  | HKD328,965,523    | HKD96,171,226     | HKD232,794,297    | HKD356,006,399   | HKD7,954,248           | HKD7,994,262       | NA                                       |
| Anhui King Bridge Cement Co., Ltd <sup>12</sup>       | USD 15,000,000  | HKD146,158,312    | HKD49,167,782     | HKD96,990,529     | -                | HKD(1,197,199)         | HKD(1,045,130)     | NA                                       |

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|---|-------------------|------------------|-------------------|------------------|------------------|------------------------|--------------------|--|
| Affiliate   | Capital amount    | Total asset      | Total liabilities | Net worth        | Revenue          | Profit from operations | Profit (after tax) | EPS (NT\$) (after tax)                 |
| TCC Yingde Cement Co., Ltd                            | USD 254,400,000   | HKD6,701,966,883 | HKD1,191,908,123  | HKD5,510,058,761 | HKD3,608,981,030 | HKD1,281,628,530       | HKD921,015,682     | NA                                     |
| Jurong TCC Cement Co., Ltd.                           | USD 233,000,000   | HKD3,606,030,143 | HKD404,632,306    | HKD3,201,397,837 | HKD1,675,631,008 | HKD633,350,245         | HKD468,054,529     | NA                                     |
| Chia Hsin Cement Greater China<br>Holding Corporation | USD 11,429,000    | HKD46,408        | HKD140,911        | HKD(94,503)      | -                | HKD(59,337)            | HKD(59,337)        | NA                                     |
| Jingyang Industrial Limited                           | HKD 101,614,561   | HKD1,426,283,439 | HKD1,251,073,090  | HKD175,210,349   | HKD691           | HKD(33,415)            | HKD(33,415)        | NA                                     |
| JiangSu TCC Investment Co., Ltd.                      | USD 50,000,000    | HKD387,037,790   | -                 | HKD387,037,790   | -                | HKD(5,697)             | HKD(5,697)         | NA                                     |
| Upper Value Investments Limited                       | USD 12,700        | HKD8,466,770,691 | HKD1,362,396,074  | HKD7,104,374,617 | HKD702           | HKD(4,854,090)         | HKD(4,854,090)     | NA                                     |
| Prosperity Cement Investment Limited                  | HKD 759,955,769   | HKD973,855,249   | HKD5,812,470      | HKD968,042,779   | HKD61            | HKD(22,794)            | HKD(22,794)        | NA                                     |
| Yingde Dragon Mountain Cement Co, Ltd                 | RMB 428,110,000   | HKD3,717,440,233 | HKD348,407,962    | 3,369,032,271    | HKD2,093,427,009 | HKD849,840,129         | HKD638,951,934     | NA                                     |
| Prosperity Minerals (International) Limited           | HKD 28,533,976    | HKD844,260,116   | HKD58,244,230     | HKD786,015,886   | HKD3,522         | HKD(68,756)            | HKD(68,756)        | NA                                     |
| Kiton Limited   | HKD 685,926,583   | HKD685,896,726   | HKD48,000         | HKD685,848,726   | HKD154           | HKD(50,851)            | HKD(50,851)        | NA                                     |
| TCC Liaoning Cement Company Limited                   | RMB 371,000,000   | HKD837,687,544   | HKD436,058,086    | HKD401,629,458   | HKD291,530,400   | HKD(27,191,704)        | HKD(27,210,934)    | NA                                     |
| Hensford Limited                                      | HKD 1,191,945,979 | HKD1,192,485,041 | HKD386,850        | HKD1,192,098,191 | HKD3,532         | HKD(47,473)            | HKD(47,473)        | NA                                     |
| TCC Anshun Cement Company Limited                     | USD 153,490,000   | HKD2,092,275,877 | HKD179,926,503    | HKD1,912,349,373 | HKD1,203,206,928 | HKD365,496,612         | HKD308,095,794     | NA                                     |
| Sure Kit Limited                                      | HKD 953,818,809   | HKD954,751,305   | HKD48,000         | HKD954,703,305   | HKD57            | HKD(1,794,208)         | HKD(1,794,208)     | NA                                     |
| TCC Chongqing Cement Company Limited                  | USD 118,000,000   | HKD2,251,169,094 | HKD530,221,911    | HKD1,720,947,183 | HKD1,493,496,841 | HKD577,636,020         | HKD428,987,409     | NA                                     |
| Prime York Limited                                    | HKD 532,147,515   | HKD534,538,305   | HKD2,422,287      | HKD532,116,018   | HKD39,009,101    | HKD38,957,641          | HKD38,957,641      | HKD 3,782.30                           |
| Prosperity Minerals (China) Limited                   | HKD10,300         | HKD128,668,866   | HKD4,200,525      | HKD124,468,341   | HKD497,009       | HKD(2,081,352)         | HKD(2,127,519)     | NA                                     |
| Mega East Limited                                     | HKD597,603,470    | HKD597,932,790   | HKD465,785        | HKD597,467,005   | HKD2,075         | HKD(48,930)            | HKD(48,930)        | NA                                     |
| TCC Guangan Cement Company Limited                    | USD 76,990,000    | HKD1,172,890,082 | HKD157,313,920    | HKD1,015,576,162 | HKD797,695,369   | HKD331,445,766         | HKD245,745,704     | NA                                     |
|   |                   |                  |                   |                  |                  |                        |                    |  |

2018.12.31 (expressed in NT\$ thousands)

| Affiliate                                       | Capital amount    | Total asset      | Total liabilities | Net worth      | Revenue        | Profit from operations | Profit (after tax) | EPS (NT\$) (after tax) |
|---|-------------------|------------------|-------------------|----------------|----------------|------------------------|--------------------|------------------------|
| TCC (DongGuan) Cement Company Limited           | USD 20,000,000    | HKD82,505,911    | HKD5,246          | HKD82,500,665  | -              | HKD4,491,133           | HKD4,491,133       | NA                     |
| TCC International (China) Company Limited       | HKD 62,143,260    | HKD62,128,624    | HKD162,040        | HKD61,966,584  | HKD13          | HKD(22,992)            | HKD(22,992)        | NA                     |
| TCC New (Hangzhou) Management Company Limited   | USD 8,000,000     | HKD152,241,321   | HKD100,974,728    | HKD51,266,592  | HKD31,131,275  | HKD7,015,092           | HKD7,015,092       | NA                     |
| Kong On Cement Holdings Limited                 | HKD 127,440,000   | HKD157,607,766   | HKD19,669,786     | HKD137,937,979 | HKD4,424,208   | HKD4,368,588           | HKD4,368,588       | HKD0.18                |
| Guizhou Kong On Cement Company Limited          | USD 20,300,000    | HKD383,962,407   | HKD173,332,881    | HKD210,629,526 | HKD374,617,685 | HKD69,766,632          | HKD44,058,887      | NA                     |
| Wayly Holdings Limited                          | USD 10,501        | HKD512,873,400   | HKD26,709,732     | HKD486,163,668 | HKD648,058     | HKD636,897             | HKD636,897         | HKD60.65               |
| Guizhou Kaili Rui An Jian Cai Co., Ltd.         | RMB 389,660,500   | HKD1,110,597,700 | HKD154,858,629    | HKD955,739,071 | HKD898,536,288 | HKD299,563,685         | HKD221,941,047     | NA                     |
| TCC Shaoguan Cement Co., Limited                | USD 40,000,000    | HKD409,807,007   | HKD114,120,152    | HKD295,686,856 | -              | HKD(5,027,857)         | HKD(5,027,857)     | NA                     |
| TCC Yingde Mining Industrial Company Limited    | USD11,500,000     | HKD135,622,584   | HKD19,594,279     | HKD116,028,305 | HKD78,326,196  | HKD7,516,044           | HKD5,636,298       | NA                     |
| TCC Guigang Mining Industrial Company Limited   | USD 5,000,000     | HKD106,403,721   | HKD9,392,099      | HKD97,011,622  | HKD69,152,720  | HKD3,638,096           | HKD2,722,777       | NA                     |
| TCC Jiangsu Mining Industrial Company Limited   | USD 4,000,000     | HKD78,864,994    | HKD10,208,527     | HKD68,656,467  | HKD31,900,772  | HKD(6,100,714)         | HKD(6,100,714)     | NA                     |
| Scitus Cement (China) Holdings Limited          | HKD 1,245,257,277 | HKD1,269,151,092 | HKD389,590,358    | HKD879,560,734 | HKD118,372     | HKD(595,654)           | HKD(595,654)       | NA                     |
| Scitus Cement (China) Operating Company Limited | HKD10,000         | -                | HKD6,197,562      | HKD(6,197,562) | -              | HKD(14,355)            | HKD(14,355)        | NA                     |
| Hexagon Holdings Limited                        | HKD 1             | HKD211,634,470   | HKD12,000         | HKD211,622,470 | -              | HKD(14,655)            | HKD(14,655)        | NA                     |
| Hexagon II Holdings Limited                     | HKD 1             | HKD75,909,219    | HKD12,000         | HKD75,897,219  | -              | HKD(14,355)            | HKD(14,355)        | NA                     |
| Hexagon III Holdings Limited                    | HKD 79,500,001    | HKD158,452,240   | HKD68,998,047     | HKD89,454,193  | HKD4           | HKD(51,089)            | HKD(51,089)        | NA                     |
| Hexagon IV Holdings Limited                     | HKD 136,430,001   | HKD439,491,316   | HKD281,540,378    | HKD157,950,937 | HKD162         | HKD(53,159)            | HKD(53,159)        | NA                     |
| Hexagon V Holdings Limited                      | HKD 1             | HKD89,121,958    | HKD14,014,609     | HKD75,107,349  | -              | HKD(15,522)            | HKD(15,522)        | NA                     |
| Upper Value Investment Limited                  | HKD 1             | HKD560,693,716   | HKD394,090,681    | HKD166,603,035 | HKD54,900,000  | HKD54,876,995          | HKD54,876,995      | HKD54,876,995          |

| Affiliate  | Capital amount  | Total asset      | Total liabilities | Net worth      | Revenue        | Profit from operations | Profit (after tax) | EPS (NT\$) (after tax) |
|--|-----------------|------------------|-------------------|----------------|----------------|------------------------|--------------------|------------------------|
| Hexagon VIII Holdings Limited  | HKD 1           | HKD14,560,639    | HKD12,000         | HKD14,548,639  | -              | HKD(15,390)            | HKD(15,390)        | NA                     |
| Hexagon IX Holdings Limited  | HKD 1           | HKD19,293,851    | HKD20,562,074     | HKD(1,268,223) | -              | HKD(51,545)            | HKD(51,545)        | NA                     |
| Hexagon XIII Holdings Limited  | HKD 1           | HKD6,857,776     | HKD12,000         | HKD6,845,776   | -              | HKD(15,130)            | HKD(15,130)        | NA                     |
| Hexagon XIV Holdings Limited   | HKD 1           | HKD21,447,138    | HKD21,772,251     | HKD(325,113)   | -              | HKD(51,665)            | HKD(51,665)        | NA                     |
| Scitus Luzhou Cement Co.,Ltd.  | RMB 395,000,000 | HKD903,277,800   | HKD263,642,280    | HKD639,635,520 | HKD633,913,312 | HKD171,481,512         | HKD135,447,872     | NA                     |
| Scitus Hejiang Cement Co.,Ltd.   | RMB 23,250,000  | HKD30,865,583    | HKD1,720,135      | HKD29,145,448  | -              | HKD(2,133,272)         | HKD(2,133,272)     | NA                     |
| Scitus Luzhou Concrete Co.,Ltd.  | RMB 25,000,000  | HKD54,930,004    | HKD17,650,449     | HKD37,279,555  | HKD75,338,202  | HKD3,726,971           | HKD2,388,637       | NA                     |
| Scitus Naxi Cement Co.,Ltd.  | RMB 146,510,000 | HKD259,741,968   | HKD176,948,906    | HKD82,793,062  | HKD209,477,264 | HKD50,461,848          | HKD50,461,848      | NA                     |
| Anshun Xin Tai Construction Materials Company Limited                          | RMB 15,000,000  | HKD22,745,634    | HKD5,741,078      | HKD17,004,556  | HKD9,542,325   | HKD617,928             | HKD617,928         | NA                     |
| TCC Huaying Cement Company Limited   | RMB 949,880,000 | HKD1,077,159,517 | HKD290,976,615    | HKD786,182,902 | HKD736,749,542 | HKD235,915,801         | HKD235,915,801     | NA                     |
| TCC Huaihua Cement Company Limited   | RMB 93,000,000  | HKD1,511,078,341 | HKD856,207,416    | HKD654,870,925 | HKD796,652,601 | HKD139,404,587         | HKD137,466,552     | NA                     |
| TCC Jingzhou Cement Company Limited  | RMB 10,000,000  | HKD547,410,916   | HKD207,106,828    | HKD340,304,088 | HKD382,998,138 | HKD70,667,317          | HKD60,431,257      | NA                     |
| TCC Huaihua Concrete Company Limited   | RMB 10,000,000  | HKD30,786,426    | HKD17,573,203     | HKD13,213,224  | HKD22,267,208  | HKD(4,386,037)         | HKD(4,480,415)     | NA                     |
| Guigang TCC DongYuan Environmental<br>Technology Company Limited <sup>13</sup> | RMB126,000,00   | HKD143,658,422   | HKD337,369        | HKD143,321,053 | -              | HKD(332,768)           | HKD(332,768)       | NA                     |
| Taiwan Cement (Dutch) Holdings B.V. <sup>14</sup>                              | EUR831,431,000  | EUR831,128,759   | EUR171,958        | EUR830,956,800 | -              | EUR(171,958)           | EUR(78,528)        | NA                     |

 $<sup>^{1}\</sup>mathrm{Ho}$  Shun Construction Materials Corporation was completed liquidation procedure in December 2018.

<sup>&</sup>lt;sup>2</sup> TCEC Corporation's cancellation was completed in December 2018.

 $<sup>^3\</sup>mathsf{Tong}\,\mathsf{Yu}\,\mathsf{Industrial}\,\mathsf{Corporation}\,\mathsf{was}\,\mathsf{renamed}\,\mathsf{TCC}\,\mathsf{Green}\,\mathsf{Energy}\,\mathsf{Corporation}\,\mathsf{in}\,\mathsf{March}\,\mathsf{2018}.$ 

<sup>&</sup>lt;sup>4</sup>TCC Chia-Chien Green Energy Co., Ltd was founded on May 4, 2018.

<sup>&</sup>lt;sup>5</sup>TCC Yun-kai Green Energy Co., Ltd was founded on May 4, 2018.

<sup>&</sup>lt;sup>6</sup>TCC Lien-Shen Green Energy Co., Ltd was founded on May 8, 2018.

<sup>&</sup>lt;sup>7</sup>TCC Chang-Ho Green Energy Co., Ltd was founded on July 10, 2018.

 $<sup>^8\</sup>mathrm{TCC}$  Kao Cheng Green Energy Co., Ltd was founded on July 18, 2018.

<sup>&</sup>lt;sup>9</sup>TCC Nan Chung Green Energy Co., Ltd was founded on September 6, 2018.

 $<sup>^{10}\</sup>mbox{Chang-Wong Wind Power Generation Co., Ltd}$  was founded on December 12, 2018.

<sup>&</sup>lt;sup>11</sup>Koning Concrete Ltd.'s cancellation was completed in August 2018.

 $<sup>^{\</sup>rm 12}$  Anhui King Bridge Cement Co., Ltd.s cancellation was completed in January 2019.

 $<sup>^{13}</sup> Guigang\ TCC\ Dongyuan\ Environmental\ Protection\ Technology\ Co., Ltd.\ was\ founded\ on\ June\ 7,2018.$ 

<sup>&</sup>lt;sup>14</sup>Taiwan Cement (Dutch) Holdings B.V was founded on November 8, 2018.

#### DECLARATION OF CONSOLIDATION OF FINANCIAL STATEMENTS OF AFFILIATES

The entities required to be included in the consolidated financial statements of Taiwan Cement Corporation between January 1, 2018 and December 31, 2018 as per the Criteria Governing the Preparation of Affiliation Reports, Consolidated Business Reports and Consolidated Financial Statements of Affiliated Enterprises are the same as those included in the consolidated financial statements prepared in conformity with the International Financial Reporting Standard 10 Consolidated Financial Statements. In addition, the information required to be disclosed in the consolidated financial statement of affiliates is included in the consolidated financial statement Corporation and Subsidiaries will not prepare a separate set of consolidated financial statements. Very truly yours,

Taiwan Cement Corporation Chang An Ping, Chairman Date: March 22, 2019

8.2 Private placements of securities in the previous year and by the date of report publication: NA

8.3 Stocks of this Company held and disposed by subsidiaries in the previous year and by the date of report publication: NA

8.4 Other required supplementary notes: NA

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9. Events with material impacts on equity or stock price as specified in item 2, paragraph 2, Article 36 of the Securities and Exchange Act in the previous year and by the date of report publication: NA

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No.303, Sec. 2, Shatian Rd., Dadu Dist., Taichung

**Taiping Branch** (04) 2273-2506

No.120, Sec. 2, Yongping Rd., Taiping Dist., Taichung City 411, Taiwan

**Taichung Port Cement Distribution Station** 

No.2, Beiheng 7th Rd., Qingshui Dist., Taichung City

Shengang Branch (04) 2563-3980

No.502, Xizhou Rd., Shengang Dist., Taichung City

**Caotun Branch** (049) 225-3248

No.137, Renhe Rd., Nantou City, Nantou County

Kaohsiung Cement Plant (07)3720396

No.16, Gongye 1st Rd., Renwu Dist., Kaohsiung City

Chiavi Branch (05) 221-7215

No.8, Xinsheng St., Minxiong Township, Chiayi County 621, Taiwan

**Tainan Branch** (06) 270-3259

No.36, Taiyi 7th St., Rende Dist., Tainan City 717,

Luzhu Branch (07) 607-1238

No.809. Daren Rd., Luzhu Dist., Kaohsiung City 821, Taiwan

**Shanhua Branch** (06) 581-0685

No.33, Xingnong Rd., Shanhua Dist., Tainan City 741 Taiwan

**Anping Branch** (06) 291-9809

No.84-2, Xinle Rd., South Dist., Tainan City

Nanxun Branch (07) 349-4062

No.99-1, Gaonan Rd., Renwu Dist., Kaohsiung City

**Xiaogang Branch** (07) 872-1166~7

No.12, Zhonglin Rd., Xiaogang Dist., Kaohsiung City

Xinshi Branch (06) 589-3441

No.183, Zhongshan Rd., New Urban Dist., Tainan City 744,Taiwan

Kaohsiung Port Cement Distribution Station(Wharves No.44) (07) 813-5047~9

No.12, Dahua 3rd Rd., Qianzhen Town, Kaohsiung City 806, Taiwan

Anping Port Cement Distribution Station

No.6, Lane 23, Xingang Rd., South Dist., Tainan City

The Taiwan Cement Corporation

No.113, Section 2, Zhongshan North Rd., Zhongshan Dist., Taipei City 104, Taiwan TEL:(02)2531-7099 FAX:(02)2531-6650

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Spokesman

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E-mail:leotsai@taiwancement.com

Stock Transfer Services Name:Transfer Agency, CTCB Bank Address:5F., No.83, Sec. 1, Chongqing S. Rd., Zhongzheng Dist., Taipei City 100, Taiwan TEL:(02)6636-5566

Website:http://www.chinatrust.com.tw

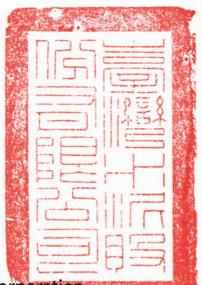
Website:http://www.deloitte.com

Ya-Ling Wong and Chih-Ming Shao CPA Firm :Deloitte Taiwan Address:20F, Taipei Nan Shan Plaza No.100, Songren Rd. Xinyi Dist. Taipei 11073, Taiwan TEL:2725-9988:(Rep.)

Overseas listings and access to the listing

1.Global depository receipt - Luxembourg Stock Exchange sub-board /link for or inquiry: https://www.bourse.lu/issuer/TaiwanCement/55152

2.Overseas unsecured convertible corporate bonds Singapore Exchange/link for or inquiry: https://www2.sgx.com/



The Taiwan Cement Corporation

Chairman:

Melsor Stry



GREEN ENERGY TOTAL CLIMATE COMMITMENT

CIRCULAR ECONOMY TOTAL CARE COMMITMENT



# The Taiwan Cement Corporation Annexes to 2018 Annual Report

Stock code 1101)



#### TAIWAN CEMENT CORPORATION AND SUBSIDIARIES

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS FOR THE YEARS ENDED DECEMBER 31, 2018 AND 2017 (In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

#### 1. GENERAL INFORMATION

Taiwan Cement Corporation (the "Corporation") was incorporated in 1946 and was restructured as a corporation in 1951, which was jointly operated by the Ministry of Economics Resource Committee and the Taiwan Provincial Government. In 1954, the Corporation privatized as a result of the Taiwan government's land reform program, a land-to-the-tiller policy. The Corporation engages in the manufacture and marketing of cement, cement-related products and ready-mixed concrete. The Corporation's shares have been listed on the Taiwan Stock Exchange since February 1962.

The consolidated financial statements of the Corporation and its subsidiaries, collectively referred to as the "Group", are presented in New Taiwan dollars, the functional currency of the Corporation.

#### 2. APPROVAL OF FINANCIAL STATEMENTS

The consolidated financial statements were approved by the Corporation's board of directors on March 22, 2019.

#### 3. APPLICATION OF NEW, AMENDED AND REVISED STANDARDS AND INTERPRETATIONS

a. Initial application of the amendments to the Regulations Governing the Preparation of Financial Reports by Securities Issuers and the International Financial Reporting Standards (IFRS), International Accounting Standards (IAS), Interpretations of IFRS (IFRIC), and Interpretations of IAS (SIC) (collectively, the "IFRSs") endorsed and issued into effect by the FSC

Except for the following, the initial application of the amendments to the Regulations Governing the Preparation of Financial Reports by Securities Issuers and the IFRSs endorsed and issued into effect by the FSC did not have any material impact on the Group's accounting policies:

#### 1) IFRS 9 "Financial Instruments" and related amendments

IFRS 9 supersedes IAS 39 "Financial Instruments: Recognition and Measurement", with consequential amendments to IFRS 7 "Financial Instruments: Disclosures" and other standards. IFRS 9 sets out the requirements for the classification, measurement and impairment of financial assets and hedge accounting. Refer to Note 4 for information relating to the relevant accounting policies.

#### Classification, measurement and impairment of financial assets

On the basis of the facts and circumstances that existed as of January 1, 2018, the Group has performed an assessment of the classification of recognized financial assets and has elected not to restate prior reporting periods.

The following table shows the original measurement categories and carrying amounts under IAS 39 and the new measurement categories and carrying amounts under IFRS 9 for each class of the Group's financial assets as of January 1, 2018.

|   |  | Measureme             | Carrying  |  |  |  |           |
|---|--|-----------------------|---|--|--|--|-----------|
| Financial Asset   | IAS  | 39                    | IFF   | RS 9   | IAS 39   | IFRS 9                                       | Remark    |
| Equity securities   | Available-for-sale                                 |                       | Mandatorily at fair v   | value through profit                               | \$ 307,090   | \$ 307,090                                   | a)        |
|   | Available-for-sale                                 |                       | At fair value through<br>comprehensive in<br>equity instruments | come (FVTOCI) -                                    | 28,165,590   | 28,165,590                                   | a)        |
|   | Available-for-sale (re<br>financial assets car     |                       | At FVTOCI - equity  |  | 582,819  | 5,497,046                                    | a)        |
| Mutual funds  | Held-for-trading<br>Available-for-sale             |                       | Mandatorily at FVT  |  | 147,049<br>84,478                                    | 147,049<br>84,478                            | b)        |
| Cash and cash equivalents, notes<br>receivable, accounts receivable,<br>other receivables, other financial<br>assets, long-term finance lease<br>receivables and loans and<br>receivables measured at<br>amortized cost | Loans and receivable                               | s                     | At amortized cost   |  | 88,120,239   | 88,120,239                                   | c)        |
| Financial Asset   | IAS 39 Carrying<br>Amount as of<br>January 1, 2018 | Reclassification      | Remeasurement   | IFRS 9 Carrying<br>Amount as of<br>January 1, 2018 | Retained<br>Earnings Effect<br>on January 1,<br>2018 | Other Equity<br>Effect on<br>January 1, 2018 | Remark    |
| <u>FVTPL</u>  | \$ 147,049   | \$ -                  | \$ -  | \$ 147,049   | \$ -   | \$ -   |           |
| Add: Reclassification from<br>available-for-sale (IAS 39)<br>Required reclassification  | 147,049  | 391,568<br>391,568    |   | 391,568<br>538,617                                 | 152,191<br>152,191                                   |  | a) and b) |
| Equity instruments Add: Reclassification from available-for-sale (IAS 39) Add: Reclassification from  | -  | 28,165,590            | -   | 28,165,590   | -  | -  | a)        |
| financial assets carried at cost (IAS 39)   |  | 582,819<br>28,748,409 | 4,914,227<br>4,914,227  | 5,497,046<br>33,662,636                            | 501,814<br>501,814                                   | 4,243,857<br>4,243,857                       | a)        |
| Amortized cost  |  |                       |   |  |  |  |           |
| Add: Reclassification from loans<br>and receivables (IAS 39)  |  | 88,120,239            |   | 88,120,239   |  |  | c)        |
|   | <u>\$ 147,049</u>                                  | \$ 117,260,216        | \$ 4,914,227  | <u>\$ 122,321,492</u>                              | <u>\$ 654,005</u>                                    | <u>\$ 4,243,857</u>                          |           |

a) The Group elected to designate its investments in equity securities previously classified as available-for-sale under IAS 39 as at FVTPL and FVTOCI under IFRS 9. As a result, the related other equity - unrealized gain (loss) on available-for-sale financial assets of \$19,914,980 thousand was reclassified to retained earnings in the amount of \$152,157 thousand and to other equity - unrealized gain (loss) on financial assets at FVTOCI in the amount of \$19,762,823 thousand.

Investments in unlisted shares previously measured at cost under IAS 39 have been designated as at FVTOCI under IFRS 9 and were remeasured at fair value. Consequently, an increase of \$4,243,857 thousand was recognized in both financial assets at FVTOCI and to other equity - unrealized gain (loss) on financial assets at FVTOCI on January 1, 2018.

The Group recognized under IAS 39 impairment loss on certain investments in equity securities previously measured at cost and the loss was accumulated in retained earnings. Since those investments were designated as at FVTOCI under IFRS 9 and no impairment assessment is required, an adjustment was made that resulted in a decrease of \$501,814 thousand in other equity - unrealized gain (loss) on financial assets at FVTOCI and an increase of \$501,814 thousand in retained earnings on January 1, 2018.

b) Mutual funds previously classified as available-for-sale under IAS 39 were classified mandatorily as at FVTPL under IFRS 9, because the contractual cash flows are not solely payments of principal and interest on the principal outstanding and they are not equity instruments. The retrospective adjustment resulted in a decrease of \$34 thousand in other equity - unrealized gain (loss) on available-for-sale financial assets and an increase of \$34 thousand in retained earnings on January 1, 2018.

- c) Notes receivable, accounts receivable (including related parties transactions), other receivables (including related parties transactions), other financial assets and long-term finance lease receivables that were previously classified as loans and receivables under IAS 39 are classified as at amortized cost with an assessment of expected credit losses under IFRS 9.
- 2) IFRS 15 "Revenue from Contracts with Customers" and related amendments

IFRS 15 establishes principles for recognizing revenue that apply to all contracts with customers, and supersedes IAS 18 "Revenue", IAS 11 "Construction Contracts" and a number of revenue-related interpretations. Refer to Note 4 for related accounting policies.

The application of IFRS 15 has no material impact on the Group. The Group elected only to retrospectively apply IFRS 15 to contracts that were not completed as of January 1, 2018. The transaction price received is recognized as a contract liability until the goods have been delivered to the customer.

#### Impact on liabilities for current period on January 1, 2019

|   | Carrying            | Adjustments    | Carrying            |
|---|---------------------|----------------|---------------------|
|   | Amount as of        | Arising from   | Amount as of        |
|   | January 1, 2018     | Initial        | January 1, 2018     |
|   | before Restated     | Application    | after Restated      |
| Advance receipts Contract liabilities - current | \$ 4,548,755        | \$ (4,548,755) | \$ -                |
|   |                     | 4,548,755      | 4,548,755           |
| Total effect on liabilities                     | <u>\$ 4,548,755</u> | <u>\$</u> _    | <u>\$ 4,548,755</u> |

b. Amendments to the Regulations Governing the Preparation of Financial Reports by Securities Issuers and the IFRSs endorsed by the FSC for application starting 2019

| New IFRSs   | Effective Date Announced by IASB (Note 1) |
|---|---|
|   |   |
| "Annual Improvements to IFRS Standards 2015-2017 Cycle"           | January 1, 2019                           |
| Amendments to IFRS 9 "Prepayment Features with Negative           | January 1, 2019 (Note 2)                  |
| Compensation"   |   |
| IFRS 16 "Leases"  | January 1, 2019                           |
| Amendments to IAS 19 "Plan Amendment, Curtailment or              | January 1, 2019 (Note 3)                  |
| Settlement"   |   |
| Amendments to IAS 28 "Long-term Interests in Associates and Joint | January 1, 2019                           |
| Ventures"   |   |
| IFRIC 23 "Uncertainty over Income Tax Treatments"                 | January 1, 2019                           |

- Note 1: Unless stated otherwise, the above New IFRSs are effective for annual periods beginning on or after their respective effective dates.
- Note 2: The FSC permits the election for early adoption of the amendments starting from 2018.
- Note 3: The Group shall apply these amendments to plan amendments, curtailments or settlements occurring on or after January 1, 2019.

#### IFRS 16 "Leases"

IFRS 16 sets out the accounting standards for leases that will supersede IAS 17, IFRIC 4, and a number of related interpretations.

#### Definition of a lease

Upon initial application of IFRS 16, the Group will elect to apply the guidance of IFRS 16 in determining whether contracts are, or contain, a lease only to contracts entered into (or changed) on or after January 1, 2019. Contracts identified as containing a lease under IAS 17 and IFRIC 4 will not be reassessed and will be accounted for in accordance with the transitional provisions under IFRS 16.

#### The Group as lessee

Upon initial application of IFRS 16, the Group will recognize right-of-use assets and lease liabilities for all leases on the consolidated balance sheets except for those whose payments under low-value assets and short-term leases will be recognized as expenses on a straight-line basis. On the consolidated statements of comprehensive income, the Group will present the depreciation expense charged on right-of-use assets separately from the interest expense accrued on lease liabilities; interest is computed by using the effective interest method. On the consolidated statements of cash flows, cash payments for the principal portion of lease liabilities will be classified within financing activities; cash payments for the interest portion will be classified within financing activities. Currently, payments under operating lease contracts are recognized as expenses on a straight-line basis. Prepaid lease payments for land use rights of land located in China are recognized as prepayments for leases. The difference between the actual payments and the expenses, as adjusted for lease leveling, is recognized as prepayments for leases. Cash flows for operating leases are classified within operating activities on the consolidated statements of cash flows. Leased assets and finance lease payables are recognized for contracts classified as finance leases.

The Group anticipates applying IFRS 16 retrospectively with the cumulative effect of the initial application of this standard recognized on January 1, 2019. Comparative information will not be restated.

Lease liabilities will be recognized on January 1, 2019 for leases currently classified as operating leases with the application of IAS 17. Lease liabilities will be measured at the present value of the remaining lease payments, discounted using the lessee's incremental borrowing rate on January 1, 2019. Right-of-use assets will be measured at their carrying amount as if IFRS 16 had been applied since the commencement date but discounted using the aforementioned incremental borrowing rate. The Group will apply IAS 36 to all right-of-use assets.

The Group expects to apply the following practical expedients:

- 1) The Group will apply a single discount rate to a portfolio of leases with reasonably similar characteristics to measure lease liabilities.
- 2) The Group will account for those leases for which the lease term ends on or before December 31, 2019 as short-term leases.
- 3) The Group will exclude initial direct costs from the measurement of right-of-use assets on January 1, 2019.
- 4) The Group will use hindsight, such as in determining lease terms, to measure lease liabilities.

#### The Group as lessor

The Group will not make any adjustments for leases in which it is a lessor and will account for those leases with the application of IFRS 16 starting from January 1, 2019.

The application of IFRS 16 is not expected to have a material impact on the accounting of the Corporation as leasor.

Anticipated impact on assets, liabilities and equity on January 1, 2019

|   | Carrying<br>Amount as of<br>December 31,<br>2018 | Adjustments<br>Arising from<br>Initial<br>Application | Adjusted<br>Carrying<br>Amount as of<br>January 1, 2019 |
|---|--|---|---|
| Anticipated impact on assets, liabilities and equity on January 1, 2019 |  |   |   |
| Prepayments Right-of-use assets   | \$ 3,034,021                                     | \$ (25,476)<br>2,537,250                              | \$ 3,008,545<br>2,537,250                               |
| Total effect on assets  | \$ 3,034,021                                     | \$ 2,511,774  | \$ 5,545,795  |
| Lease liabilities - current<br>Lease liabilities - non-current          | \$ -<br>-  | \$ 351,267<br><u>2,160,507</u>                        | \$ 351,267<br>2,160,507                                 |
| Total effect on liabilities   | <u>\$</u>  | \$ 2,511,774  | <u>\$ 2,511,774</u>                                     |

Except for the above impact, as of the date the consolidated financial statements were authorized for issue, the Group is continuously assessing the possible impact that the application of other standards and interpretations will have on the Group's financial position and financial performance and will disclose the relevant impact when the assessment is completed.

c. The New IFRSs issued by IASB but not yet endorsed and issued into effect by FSC

| New IFRSs  | Effective Date Issued by IASB (Note 1) |
|--|--|
| Amendments to IFRS 3 "Definition of a Business"  | January 1, 2020 (Note 2)               |
| Amendments to IFRS 10 and IAS 28 "Sale or Contribution of Assets between An Investor and Its Associate or Joint Venture" | To be determined by IASB               |
| IFRS 17 "Insurance Contracts"  | January 1, 2021                        |
| Amendments to IAS 1 and IAS 8 "Definition of Material"   | January 1, 2020 (Note 3)               |

- Note 1: Unless stated otherwise, the above New IFRSs are effective for annual periods beginning on or after their respective effective dates.
- Note 2: The Group shall apply these amendments to business combinations for which the acquisition date is on or after the beginning of the first annual reporting period beginning on or after January 1, 2020 and to asset acquisitions that occur on or after the beginning of that period.
- Note 3: The Group shall apply these amendments prospectively for annual reporting periods beginning on or after January 1, 2020.

As of the date the consolidated financial statements were authorized for issue, the Group is continuously assessing the possible impact that the application of other standards and interpretations will have on the Group's financial position and financial performance and will disclose the relevant impact when the assessment is completed.

#### 4. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

#### a. Statement of compliance

The consolidated financial statements have been prepared in accordance with the Regulations Governing the Preparation of Financial Reports by Securities Issuers and IFRSs endorsed and issued into effect by the FSC.

#### b. Basis of preparation

The consolidated financial statements have been prepared on the historical cost basis except for financial instruments which are measured at fair value and the net defined benefit asset which is measured at the present value of the defined benefit obligation less the fair value of the plan assets.

The fair value measurements, which are grouped into Levels 1 to 3 on the basis of the degree to which the fair value measurement inputs are observable and the significance of the inputs to the fair value measurement in its entirety, are described as follows:

- 1) Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities;
- 2) Level 2 inputs are inputs other than quoted prices included within Level 1 that are observable for an asset or liability, either directly (i.e. as prices) or indirectly (i.e. derived from prices); and
- 3) Level 3 inputs are unobservable inputs on an asset or liability.
- c. Classification of current and non-current assets and liabilities

Current assets include:

- 1) Assets held primarily for the purpose of trading;
- 2) Assets expected to be realized within 12 months after the reporting period; and
- 3) Cash and cash equivalents, unless an asset is restricted from being exchanged or used to settle a liability for at least 12 months after the reporting period.

Current liabilities include:

- 1) Liabilities held primarily for the purpose of trading;
- 2) Liabilities due to be settled within 12 months after the reporting period; and
- 3) Liabilities for which the Group does not have an unconditional right to defer settlement for at least 12 months after the reporting period.

Assets and liabilities that are not classified as current are classified as non-current.

The Group engages in the construction business, which has an operating cycle of over 1 year. The normal operating cycle applies when considering the classification of the Group's construction-related assets and liabilities.

#### d. Basis of consolidation

The consolidated financial statements incorporate the financial statements of the Corporation and the entities controlled by the Corporation.

Income and expenses of subsidiaries acquired or disposed of during the period are included in the consolidated statement of profit or loss and other comprehensive income from the effective dates of acquisitions or up to the effective dates of disposals, as appropriate.

When necessary, adjustments are made to the financial statements of subsidiaries to bring their accounting policies into line with those used by the Group.

All intra-group transactions, balances, income and expenses are eliminated in full upon consolidation. Total comprehensive income of subsidiaries is attributed to the owners of the Corporation and to the non-controlling interests even if this results in the non-controlling interests having a deficit balance.

Changes in the Group's ownership interests in subsidiaries that do not result in the Group losing control over the subsidiaries are accounted for as equity transactions. The carrying amounts of the Group's interests and the non-controlling interests are adjusted to reflect the changes in their relative interests in the subsidiaries. Any difference between the amount by which the non-controlling interests are adjusted and the fair value of the consideration paid or received is recognized directly in equity and attributed to the owners of the Corporation.

When the Group loses control of a subsidiary, a gain or loss is recognized in profit or loss and is calculated as the difference between (i) the aggregate of the fair value of the consideration received and any investment retained in the former subsidiary at its fair value at the date when control is lost and (ii) the assets (including any goodwill) and liabilities and any non-controlling interests of the former subsidiary at their carrying amounts at the date when control is lost. The Group accounts for all amounts recognized in other comprehensive income in relation to that subsidiary on the same basis as would be required had the Group had directly disposed of the related assets or liabilities.

The fair value of any investment retained in the former subsidiary at the date when control is lost is regarded as the cost on initial recognition of an investment in an associate.

Refer to Note 13 for detailed information on subsidiaries (including the percentages of ownership and main businesses).

#### e. Business combinations

Acquisitions of businesses are accounted for by using the acquisition method. Acquisition-related costs are generally recognized in profit or loss as they are incurred.

Goodwill is measured as the excess of the sum of the consideration transferred, the amount of any non-controlling interests in the acquiree, and the fair value of the acquirer's previously held equity interests in the acquiree over the net of the acquisition-date amounts of the identifiable assets acquired and the liabilities assumed.

For each business combination, the Group measures the non-controlling interests at either fair value or the share in the recognized amounts of the acquiree's identifiable net assets. Non-controlling interests that are present ownership interests and entitle their holders to a proportionate share of the entity's net assets, in the event of liquidation, may be initially measured at the non-controlling interests' proportionate share of the recognized amounts of the acquiree's identifiable net assets. The choice of the measurement basis is made on a transaction-by-transaction basis. Other types of non-controlling interests are measured at fair value.

When a business combination is achieved in stages, the Group's previously held equity interest in an acquiree is remeasured to fair value at the acquisition date, and the resulting gain or loss is recognized in profit or loss. Amounts arising from interests in the acquiree prior to the acquisition date that have previously been recognized in other comprehensive income are recognized on the same basis as would be required if those interests were directly disposed of by the Group.

If the initial accounting for a business combination is incomplete by the end of the reporting period in which the combination occurs, the Group reports provisional amounts for the items for which the accounting is incomplete. Those provisional amounts are adjusted retrospectively during the measurement period or additional assets or liabilities are recognized to reflect new information obtained about facts and circumstances that existed as of the acquisition date that, if known, would have affected the amounts recognized as of that date.

## f. Foreign currencies

In preparing the financial statements of each individual group entity, transactions in currencies other than the entity's functional currency (i.e. foreign currencies) are recognized at the rates of exchange prevailing at the dates of the transactions.

At the end of each reporting period, monetary items denominated in foreign currencies are retranslated at the rates prevailing at that date. Exchange differences on monetary items arising from settlement or translation are recognized in profit or loss in the period except for exchange differences on transactions entered into in order to hedge certain foreign currency risks.

Non-monetary items measured at fair value that are denominated in foreign currencies are retranslated at the rates prevailing at the date when the fair value was determined. Exchange differences arising from the retranslation of non-monetary items are included in profit or loss for the period except for exchange differences arising from the retranslation of non-monetary items in respect of which gains and losses are recognized directly in other comprehensive income, and in which case, the exchange differences are also recognized directly in other comprehensive income.

Non-monetary items that are measured at historical cost in a foreign currency are not retranslated.

For the purpose of presenting consolidated financial statements, the functional currencies of the Corporation and the group entities (including subsidiaries, associates and joint ventures in other countries that use currencies that are different from the currency of the Corporation) are translated into the presentation currency, the New Taiwan dollar, as follows: Assets and liabilities are translated at the exchange rates prevailing at the end of the reporting period; income and expense items are translated at the average exchange rates for the period. The resulting currency translation differences are recognized in other comprehensive income (attributed to the owners of the Corporation and non-controlling interests as appropriate).

On the disposal of a foreign operation (i.e. a disposal of the Group's entire interest in a foreign operation, or a disposal involving the loss of control over a subsidiary that includes a foreign operation, or a partial disposal of an interest in a joint arrangement or an associate that includes a foreign operation of which the retained interest becomes a financial asset), all of the exchange differences accumulated in equity in respect of that operation are reclassified to profit or loss.

In relation to a partial disposal of a subsidiary that does not result in the Group losing control over the subsidiary, the proportionate share of accumulated exchange differences is re-attributed to non-controlling interests of the subsidiary and is not recognized in profit or loss. For all other partial disposals, the proportionate share of the accumulated exchange differences recognized in other comprehensive income is reclassified to profit or loss.

Goodwill and fair value adjustments on identifiable assets and liabilities acquired arising from the acquisition of a foreign operation are treated as assets and liabilities of the foreign operation and translated at the rate of exchange prevailing at the end of each reporting period. Exchange differences arising are recognized in other comprehensive income.

#### g. Inventories

Inventories consist of raw materials, supplies, finished goods and work in process and are stated at the lower of cost or net realizable value. Inventory write-downs are made by item, except where it may be appropriate to group similar or related items. The net realizable value is the estimated selling price of inventories less all estimated costs of completion and costs necessary to make the sale. Inventories are recorded at the weighted-average cost on the end of reporting period.

## h. Investments in associates and joint ventures

An associate is an entity over which the Group has significant influence and that is neither a subsidiary nor an interest in a joint venture. A joint venture is a joint arrangement whereby the Group and other parties that have joint control of the arrangement have rights to the net assets of the arrangement.

The Group uses the equity method to account for its investments in associates and joint ventures.

Under the equity method, investments in an associate and joint venture are initially recognized at cost and adjusted thereafter to recognize the Group's share of the profit or loss and other comprehensive income of the associate and joint venture. The Group also recognizes the changes in the Group's share of the equity of associates and joint ventures.

Any excess of the cost of an acquisition over the Group's share of the net fair value of the identifiable assets and liabilities of an associate or a joint venture at the date of acquisition is recognized as goodwill, which is included within the carrying amount of the investment and is not amortized. Any excess of the Group's share of the net fair value of the identifiable assets and liabilities over the cost of the acquisition, after reassessment, is recognized immediately in profit or loss.

When the Group subscribes for additional new shares of an associate and joint venture at a percentage different from its existing ownership percentage, the resulting carrying amount of the investment differs from the amount of the Group's proportionate interest in that associate and joint venture. The Group records such a difference as an adjustment to investments, with the corresponding amount charged or credited to capital surplus - changes in the Group's share of equity of associates and joint ventures. If the Group's ownership interest is reduced due to its additional subscription of the new shares of the associate and joint venture, the proportionate amount of the gains or losses previously recognized in other comprehensive income in relation to that associate and joint venture is reclassified to profit or loss on the same basis as would be required had the investee had directly disposed of the related assets or liabilities. When the adjustment should be debited to capital surplus, but the capital surplus recognized from investments accounted for by using the equity method is insufficient, the shortage is debited to retained earnings.

When the Group's share of losses of an associate and a joint venture equals or exceeds its interest in that associate and joint venture (which includes any carrying amount of the investment accounted for by using the equity method and long-term interests that, in substance, form part of the Group's net investment in the associate and joint venture), the Group discontinues recognizing its share of further losses. Additional losses and liabilities are recognized only to the extent that the Group has incurred legal obligations, or constructive obligations, or made payments on behalf of that associate and joint venture.

The entire carrying amount of an investment (including goodwill) is tested for impairment as a single asset by comparing its recoverable amount with its carrying amount. Any impairment loss recognized forms part of the carrying amount of the investment. Any reversal of that impairment loss is recognized to the extent that the recoverable amount of the investment subsequently increases.

The Group discontinues the use of the equity method from the date on which its investment ceases to be an associate and a joint venture. Any retained investment is measured at fair value at that date, and the fair value is regarded as the investment's fair value on its initial recognition as a financial asset. The difference between the previous carrying amount of the associate and joint venture attributable to the retained interest and its fair value is included in the determination of the gain or loss on disposal of the associate and the joint venture. The Group accounts for all amounts previously recognized in other comprehensive income in relation to that associate and joint venture on the same basis as would be required had that associate had directly disposed of the related assets or liabilities. If an investment in an associate becomes an investment in a joint venture or an investment in a joint venture becomes an investment in an associate, the Group continues to apply the equity method and does not remeasure the retained interest.

When a group entity transacts with its associate and joint venture, profits and losses resulting from the transactions with the associate and joint venture are recognized in the Group' consolidated financial statements only to the extent that interests in the associate and the joint venture are not related to the Group.

## i. Property, plant and equipment

Property, plant and equipment are stated at cost less subsequent accumulated depreciation and subsequent accumulated impairment loss.

Property, plant and equipment in the course of construction are carried at cost less any recognized impairment loss. Cost includes professional fees and borrowing costs eligible for capitalization. Such assets are depreciated and classified to the appropriate categories of property, plant and equipment when completed and ready for their intended use.

Freehold land is not depreciated.

Depreciation of property, plant and equipment (including assets held under finance leases) is recognized using the straight-line method. Each significant part is depreciated separately. If a lease term is shorter than the assets' useful lives, such assets are depreciated over the lease term. The estimated useful lives, residual values and depreciation methods are reviewed at the end of each reporting period, with the effect of any changes in the estimates accounted for on a prospective basis.

On derecognition of an item of property, plant and equipment, the difference between the sales proceeds and the carrying amount of the asset is recognized in profit or loss.

## j. Investment properties

Investment properties are properties held to earn rentals or for capital appreciation and land held for a currently undetermined future use.

Investment properties are measured initially at cost, including transaction costs. Subsequent to initial recognition, investment properties are measured at cost less accumulated depreciation and accumulated impairment loss. Depreciation is recognized using the straight-line method.

On derecognition of an investment property, the difference between the net disposal proceeds and the carrying amount of the asset is included in profit or loss.

#### k. Goodwill

Goodwill arising from the acquisition of a business is measured at cost as established at the date of the acquisition of the business less accumulated impairment loss.

For the purposes of impairment testing, goodwill is allocated to each of the Group's cash-generating units or groups of cash-generating units (referred to as "cash-generating units") that is expected to benefit from the synergies of the combination.

A cash-generating unit to which goodwill has been allocated is tested for impairment annually or more frequently when there is an indication that the unit may be impaired by comparing its carrying amount, including the attributed goodwill, with its recoverable amount. However, if the goodwill allocated to a cash-generating unit or groups of cash-generating units was acquired in a business combination during the current annual period, that unit shall be tested for impairment before the end of the current annual period. If the recoverable amount of the cash-generating unit or groups of cash-generating units is less than its carrying amount, the impairment loss is allocated first to reduce the carrying amount of any goodwill allocated to the unit and then to the other assets of the unit pro rata based on the carrying amount of each asset in the unit. Any impairment loss is recognized directly in profit or loss. An impairment loss recognized for goodwill is not reversed in subsequent periods.

If goodwill has been allocated to a cash-generating unit and the entity disposes of an operation within that unit, the goodwill associated with the operation that is disposed of is included in the carrying amount of the operation when determining the gain or loss on disposal and is measured on the basis of the relative values of the operation disposed of and the portion of the cash-generating unit retained.

## 1. Intangible assets

## 1) Intangible assets acquired separately

Intangible assets with finite useful lives that are acquired separately are initially measured at cost and subsequently measured at cost less accumulated amortization and accumulated impairment loss. Amortization is recognized on a straight-line basis. The estimated useful lives, residual values, and amortization methods are reviewed at the end of each reporting period, with the effect of any changes in the estimates accounted for on a prospective basis. Intangible assets with indefinite useful lives that are acquired separately are measured at cost less accumulated impairment loss.

When the Group has a right to charge for usage of concession infrastructure (as a consideration for providing construction services in a service concession arrangement), it is initially recognized as an intangible asset at its fair value. The intangible asset is subsequently measured at cost less accumulated amortization and any accumulated impairment loss.

## 2) Intangible assets acquired in a business combination

Intangible assets acquired in a business combination and recognized separately from goodwill are initially recognized at their fair value at the acquisition date. Subsequent to initial recognition, they are measured on the same basis as intangible assets that are acquired separately.

## 3) Derecognition of intangible assets

On derecognition of an intangible asset, the difference between the net disposal proceeds and the carrying amount of the asset is recognized in profit or loss.

## m. Impairment of tangible and intangible assets other than goodwill

At the end of each reporting period, the Group reviews the carrying amounts of its tangible and intangible assets, excluding goodwill, to determine whether there is any indication that those assets have suffered any impairment loss. If any such indication exists, the recoverable amount of the asset is estimated in order to determine the extent of the impairment loss. When it is not possible to estimate the recoverable amount of an individual asset, the Group estimates the recoverable amount of the cash-generating unit to which the asset belongs. Group assets are allocated to the smallest group of cash-generating units on a reasonable and consistent basis of allocation.

Intangible assets not yet available for use are tested for impairment at least annually and whenever there is an indication that the assets may be impaired.

The recoverable amount is the higher of fair value less costs to sell and value in use. If the recoverable amount of an asset or cash-generating unit is estimated to be less than its carrying amount, the carrying amount of the asset or cash-generating unit is reduced to its recoverable amount, with the resulting impairment loss recognized in profit or loss.

When an impairment loss is subsequently reversed, the carrying amount of an asset or cash-generating unit is increased to the revised estimate of its recoverable amount, but only to the extent of the carrying amount (less amortization expenses or depreciation expenses) that would have been determined had no impairment loss been recognized for the asset or cash-generating unit in prior years. A reversal of an impairment loss is recognized in profit or loss.

#### n. Non-current assets held for sale

Non-current assets are classified as held for sale if their carrying amounts will be recovered principally through a sale transaction rather than through continuing use. This condition is regarded as met only when the sale is highly probable and the non-current asset is available for immediate sale in its present condition. To meet the criteria for the sale being highly probable, the appropriate level of management must be committed to the sale, which should be expected to qualify for recognition as a completed sale within 1 year from the date of classification.

When a sale plan would result in a loss of control of a subsidiary, all of the assets and liabilities of that subsidiary are classified as held for sale, regardless of whether the Group will retain a non-controlling interest in that subsidiary after the sale.

When the Group is committed to a sale plan involving the disposal of an investment or a portion of an investment in an associate or a joint venture, only the investment or the portion of the investment that will be disposed of is classified as held for sale when the classification criteria are met, and the Group discontinues the use of the equity method in relation to the portion that is classified as held for sale. Any retained portion of an investment in an associate or a joint venture that has not been classified as held for sale continues to be accounted for by using the equity method. If the Group ceases to have significant influence or joint control over the investment after the disposal takes place, the Group accounts for any retained interest that has not been classified as held for sale in accordance with the accounting policies for financial instruments.

Non-current assets classified as held for sale are measured at the lower of their previous carrying amount and fair value less costs to sell. Recognition of depreciation of those assets would cease.

When a subsidiary, joint venture, associate, or a portion of an interest in a joint venture or an associate previously classified as held for sale no longer meets the criteria to be so classified, it is measured at the carrying amount that would have been recognized had such interests not been classified as held for sale. The consolidated financial statements for the periods since classification as held for sale are amended accordingly.

#### o. Financial instruments

Financial assets and financial liabilities are recognized when a group entity becomes a party to the contractual provisions of the instruments.

Financial assets and financial liabilities are initially measured at fair value. Transaction costs that are directly attributable to the acquisition or issuance of financial assets and financial liabilities (other than financial assets and financial liabilities at FVTPL) are added to or deducted from the fair value of the financial assets or financial liabilities, as appropriate, on initial recognition. Transaction costs directly attributable to the acquisition of financial assets or financial liabilities at FVTPL are recognized immediately in profit or loss.

#### 1) Financial assets

All regular way purchases or sales of financial assets are recognized and derecognized on a trade date basis.

## a) Measurement categories

#### 2018

Financial assets are classified into the following categories: Financial assets at FVTPL, financial assets at amortized cost and investments in equity instruments at FVTOCI.

#### i. Financial assets at FVTPL

Financial assets are classified as at FVTPL when the financial assets are mandatorily classified as at FVTPL. Financial assets mandatorily classified as at FVTPL include investments in equity instruments which are not designated as at FVTOCI.

Financial assets at FVTPL are subsequently measured at fair value, with any gains or losses arising on their remeasurement recognized in profit or loss. Fair value is determined in the manner described in Note 30.

#### ii. Financial assets at amortized cost

Financial assets that meet the following conditions are subsequently measured at amortized cost:

- i) The financial asset is held within a business model whose objective is to hold financial assets in order to collect contractual cash flows; and
- ii) The contractual terms of the financial asset give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding.

Subsequent to initial recognition, financial assets at amortized cost, including cash and cash equivalents, trade receivables at amortized cost, are measured at amortized cost, which equals the gross carrying amount determined using the effective interest method less any impairment loss. Exchange differences are recognized in profit or loss.

Interest income is calculated by applying the effective interest rate to the gross carrying amount of such a financial asset, except for:

 Purchased or originated credit impaired financial assets, for which interest income is calculated by applying the credit-adjusted effective interest rate to the amortized cost of such financial assets; and ii) Financial assets that are not credit impaired on purchase or origination but have subsequently become credit impaired, for which interest income is calculated by applying the effective interest rate to the amortized cost of such financial assets in subsequent reporting periods.

Cash equivalents include time deposits and repurchase agreements collateralized by bonds with original maturities within 3 months from the date of acquisition, which are highly liquid, readily convertible to a known amount of cash and are subject to an insignificant risk of changes in value. These cash equivalents are held for the purpose of meeting short-term cash commitments.

## iii. Investments in equity instruments at FVTOCI

On initial recognition, the Group may make an irrevocable election to designate investments in equity instruments as at FVTOCI. Designation as at FVTOCI is not permitted if the equity investment is held for trading or if it is contingent consideration recognized by an acquirer in a business combination.

Investments in equity instruments at FVTOCI are subsequently measured at fair value with gains and losses arising from changes in fair value recognized in other comprehensive income and accumulated in other equity. The cumulative gain or loss will not be reclassified to profit or loss on disposal of the equity investments; instead, it will be transferred to retained earnings.

Dividends on these investments in equity instruments are recognized in profit or loss when the Group's right to receive the dividends is established, unless the dividends clearly represent a recovery of part of the cost of the investment.

## 2017

Financial assets are classified into the following categories: Financial assets at FVTPL, available-for-sale financial assets, and loans and receivables.

#### i. Financial assets at FVTPL

Financial assets are classified as at FVTPL when a financial assets are held for trading.

Financial assets at FVTPL are stated at fair value, with any gains or losses arising on their remeasurement recognized in profit or loss. Fair value is determined in the manner described in Note 30.

## ii. Available-for-sale financial assets

Available-for-sale financial assets are non-derivatives that are either designated as available-for-sale or are not classified as loans and receivables, held-to-maturity investments or financial assets at FVTPL.

Available-for-sale financial assets are measured at fair value. Changes in the carrying amounts of available-for-sale monetary financial assets (relating to changes in foreign currency exchange rates, interest income calculated using the effective interest method and dividends on available-for-sale equity investments) are recognized in profit or loss. Other changes in the carrying amount of available-for-sale financial assets are recognized in other comprehensive income and will be reclassified to profit or loss when the investment is disposed of or is determined to be impaired.

Dividends on available-for-sale equity instruments are recognized in profit or loss when the Group's right to receive the dividends is established.

Available-for-sale equity investments that do not have a quoted market price in an active market and whose fair value cannot be reliably measured are measured at cost less any identified impairment loss at the end of each reporting period and are presented in a separate line item as financial assets carried at cost. If, in a subsequent period, the fair value of the financial assets can be reliably measured, the financial assets are remeasured at fair value. The difference between carrying amount and fair value is recognized in other comprehensive income on financial assets. Any impairment losses are recognized in profit and loss.

#### iii. Loans and receivables

Loans and receivables are measured at amortized cost using the effective interest method less any impairment, except for short-term receivables when the effect of discounting is immaterial.

Cash equivalents include time deposits and repurchase agreements collateralized by bonds with original maturities within three months from the date of acquisition, which are highly liquid, readily convertible to a known amount of cash and subject to an insignificant risk of changes in value. These cash equivalents are held for the purpose of meeting short-term cash commitments.

## b) Impairment of financial assets

#### 2018

The Group recognizes a loss allowance for expected credit losses on financial assets at amortized cost (including trade receivables), lease receivables, as well as contract assets.

The Group always recognizes lifetime expected credit losses (ECLs) for trade receivables and lease receivables. For all other financial instruments, the Group recognizes lifetime ECLs when there has been a significant increase in credit risk since initial recognition. If, on the other hand, the credit risk on a financial instrument has not increased significantly since initial recognition, the Group measures the loss allowance for that financial instrument at an amount equal to 12-month ECLs.

Expected credit losses reflect the weighted average of credit losses with the respective risks of default occurring as the weights. Lifetime ECLs represent the expected credit losses that will result from all possible default events over the expected life of a financial instrument. In contrast, 12-month ECLs represent the portion of lifetime ECLs that is expected to result from default events on a financial instrument that are possible within 12 months after the reporting date.

The Group recognizes an impairment gain or loss in profit or loss for all financial instruments with a corresponding adjustment to their carrying amount through a loss allowance account.

#### 2017

Financial assets, other than those at FVTPL, are assessed for indicators of impairment at the end of each reporting period. Financial assets are considered to be impaired when there is objective evidence that, as a result of one or more events that occurred after the initial recognition of the financial asset, the estimated future cash flows of the investment have been affected.

Financial assets carried at amortized cost are assessed for impairment on a collective basis even if they were assessed not to be impaired individually. Objective evidence of impairment for a portfolio of receivables could include the Group's past experience of collecting payments, an increase in the number of delayed payments in the portfolio, as well as observable changes in national or local economic conditions that correlate with defaults on receivables.

For a financial asset carried at amortized cost, the amount of the impairment loss recognized is the difference between the asset's carrying amount and the present value of estimated future cash flows, discounted at the financial asset's original effective interest rate.

For financial assets at amortized cost, if, in a subsequent period, the amount of the impairment loss decreases and the decrease can be related objectively to an event occurring after the impairment was recognized, the previously recognized impairment loss is reversed through profit or loss to the extent that the carrying amount of the investment at the date the impairment is reversed does not exceed what the amortized cost would have been had the impairment not been recognized.

For available-for-sale equity investments, a significant or prolonged decline in the fair value of the security below its cost is considered to be objective evidence of impairment.

When an available-for-sale financial asset is considered to be impaired, cumulative gains or losses previously recognized in other comprehensive income are reclassified to profit or loss in the period.

In respect of available-for-sale equity securities, impairment loss previously recognized in profit or loss is not reversed through profit or loss. Any increase in fair value subsequent to an impairment loss is recognized in other comprehensive income. In respect of available-for-sale debt securities, impairment loss is subsequently reversed through profit or loss if an increase in the fair value of the investment can be objectively related to an event occurring after the recognition of the impairment loss.

For financial assets that are measured at cost, the amount of the impairment loss is measured as the difference between the asset's carrying amount and the present value of the estimated future cash flows discounted at the current market rate of return for a similar financial asset. Such impairment loss will not be reversed in subsequent periods.

The carrying amount of a financial asset is reduced by its impairment loss directly for all financial assets, with the exception of accounts receivable, where the carrying amount is reduced through the use of an allowance account. When accounts receivable are considered uncollectable, they are written off against the allowance account. Subsequent recoveries of amounts previously written off are credited against the allowance account. Changes in the carrying amount of the allowance account are recognized in profit or loss except for uncollectable accounts receivable that are written off against the allowance account.

## c) Derecognition of financial assets

The Group derecognizes a financial asset only when the contractual rights to the cash flows from the asset expire or when it transfers the financial asset and substantially all the risks and rewards of ownership of the asset to another party.

Before 2018, on derecognition of a financial asset in its entirety, the difference between the asset's carrying amount and the sum of the consideration received and receivable and the cumulative gain or loss which had been recognized in other comprehensive income is recognized in profit or loss. Starting from 2018, on derecognition of a financial asset at amortized cost in its entirety, the difference between the asset's carrying amount and the sum of the consideration received and receivable is recognized in profit or loss. However, on derecognition of an investment in an equity instrument at financial assets at FVTOCI, the difference between the asset's carrying amount and the sum of the consideration received and receivable is recognized in profit or loss, and the cumulative gain or loss which had been recognized in other comprehensive income is transferred directly to retained earnings, without recycling through profit or loss.

## 2) Equity instruments

Debt and equity instruments issued by a group entity are classified as either financial liabilities or as equity in accordance with the substance of the contractual arrangements and the definitions of a financial liability and an equity instrument.

Equity instruments issued by a group entity are recognized at the proceeds received, net of direct issue costs.

The repurchase of the Corporation's own equity instruments is recognized in and deducted directly from equity. No gain or loss is recognized in profit or loss on the purchase, sale, issuance or cancellation of the Corporation's own equity instruments.

#### 3) Financial liabilities

#### a) Subsequent measurement

Except for financial liabilities at FVTPL, all financial liabilities are measured at amortized cost using the effective interest method.

Financial liabilities are classified as at FVTPL when any such financial liability is either held for trading or is designated as at FVTPL.

Financial liabilities at FVTPL are stated at fair value, with any gains or losses arising on remeasurement recognized in profit or loss. Fair value is determined in the manner described in Note 30.

A financial liability may be designated as at FVTPL upon initial recognition when doing so results in more relevant information and if:

- i. Such designation eliminates or significantly reduces a measurement or recognition inconsistency that would otherwise arise; or
- ii. The financial liability forms part of a group of financial assets or financial liabilities or both, which is managed and has performance evaluated on a fair value basis, in accordance with the Group's documented risk management or investment strategy, and information about the grouping is provided internally on that basis; or
- iii. The contract contains one or more embedded derivatives so that the entire combined contract (asset or liability) can be designated as at FVTPL.

For a financial liability designated as at FVTPL, the amount of changes in fair value attributable to changes in the credit risk of the liability is presented in other comprehensive income and will not be subsequently reclassified to profit or loss. The remaining amount of changes in the fair value of that liability is presented in profit or loss. The gain or loss accumulated in other comprehensive income will be transferred to retained earnings when the financial liabilities are derecognized. If this accounting treatment related to credit risk would create or enlarge an accounting mismatch, all changes in the fair value of the liability are presented in profit or loss.

## b) Derecognition of financial liabilities

The difference between the carrying amount of the financial liability derecognized and the consideration paid, including any non-cash assets transferred or liabilities assumed, is recognized in profit or loss.

#### 4) Convertible bonds

The component parts of compound instruments (i.e. convertible bonds) issued by the Group are classified separately as financial liabilities and equity in accordance with the substance of the contractual arrangements and the definitions of a financial liability and an equity instrument.

On initial recognition, the fair value of the liability component is estimated using the prevailing market interest rate for similar non-convertible instruments. This amount is recorded as a liability on an amortized cost basis using the effective interest method until extinguished upon conversion or upon the instrument's maturity date. Any embedded derivative liability is measured at fair value.

The conversion option classified as equity is determined by deducting the amount of the liability component from the fair value of the compound instrument as a whole. This is recognized and included in equity, net of income tax effects, and is not subsequently remeasured. In addition, the conversion option classified as equity will remain in equity until the conversion option is exercised; in which case, the balance recognized in equity will be transferred to capital surplus - share premiums. When the conversion option remains unexercised at maturity, the balance recognized in equity will be transferred to capital surplus - share premiums.

Transaction costs that relate to the issuance of the convertible notes are allocated to the liability and equity components in proportion to the allocation of the gross proceeds. Transaction costs relating to the equity component are recognized directly in equity. Transaction costs relating to the liability component are included in the carrying amount of the liability component.

## 5) Derivative financial instruments

The Group enters into derivative financial instruments to manage its exposure to foreign exchange rate risks, including foreign exchange forward contracts.

Derivatives are initially recognized at fair value at the date the derivative contracts are entered into and are subsequently remeasured to their fair value at the end of each reporting period. The resulting gain or loss is recognized in profit or loss immediately unless the derivative is designated and effective as a hedging instrument and in which event the timing of the recognition in profit or loss depends on the nature of the hedging relationship. When the fair value of a derivative financial instrument is positive, the derivative is recognized as a financial asset; when the fair value of a derivative financial instrument is negative, the derivative is recognized as a financial liability.

Before 2018, derivatives embedded in non-derivative host contracts were treated as separate derivatives when they met the definition of a derivative; their risks and characteristics were not closely related to those of the host contracts; and the contracts were not measured at financial assets at FVTPL. Starting from 2018, derivatives embedded in hybrid contracts that contain financial asset hosts that is within the scope of IFRS 9 are not separated; instead, the classification is determined in accordance with the entire hybrid contract. Derivatives embedded in non-derivative host contracts that are not financial assets that is within the scope of IFRS 9 (e.g. financial liabilities) are treated as separate derivatives when they meet the definition of a derivative; their risks and characteristics are not closely related to those of the host contracts; and the host contracts are not measured at financial assets at FVTPL.

## p. Hedge accounting

The effects of changes in the fair value of derivatives that are designated and qualified as cash flow hedges are recognized in other comprehensive income. The gains or losses relating to the ineffective portion is recognized immediately in profit or loss.

The associated gains or losses that were recognized in other comprehensive income are reclassified from equity to profit or loss as a reclassification adjustment in the line item relating to the hedged item in the same period when the hedged item affects profit or loss. If a hedge of a forecast transaction subsequently results in the recognition of a non-financial asset or a non-financial liability, the associated gains and losses that were recognized in other comprehensive income are removed from equity and are included in the initial cost of the non-financial asset or non-financial liability.

Before 2018, hedge accounting was discontinued prospectively when the Group revoked the designated hedging relationship; when the hedging instrument expired or was sold, terminated, or exercised; or when the hedging instrument no longer met the criteria for hedge accounting. Starting from 2018, the Group discontinues hedge accounting only when the hedging relationship ceases to meet the qualifying criteria; for instance, when the hedging instrument expires or is sold, terminated or exercised. The cumulative gain or loss on the hedging instrument that was previously recognized in other comprehensive income (from the period in which the hedge was effective) remains separately in equity until the forecasted transaction occurs. When a forecasted transaction is no longer expected to occur, the gains or losses accumulated in equity are recognized immediately in profit or loss.

## q. Revenue recognition

#### 2018

The Group identifies contracts with customers, allocates the transaction price to the performance obligations and recognizes revenue when performance obligations are satisfied.

## 1) Revenue from the sale of goods

Sales of goods are recognized as revenue when the goods are delivered to the customer's specific location and the control of the products has transferred to the customer.

## 2) Revenue from the rendering of services

Revenue from the rendering of services is recognized by reference to the stage of completion of the contract or when services are provided. Freight revenue is recognized by reference to the proportion of the voyage period.

## 3) Sale of electric power

Revenue from electric power is calculated according to the volume of electric power sold and the energy rate.

## 2017

Revenue is measured at the fair value of the consideration received or receivable. Revenue is reduced for estimated customer returns, rebates and other similar allowances. Allowances for sales returns and liabilities for returns are recognized at the time of sale based on the seller's reliable estimate of future returns and based on past experience and other relevant factors.

## 1) Sale of goods

Revenue from the sale of goods is recognized when all the following conditions are satisfied:

- a) The Group has transferred to the buyer the significant risks and rewards of ownership of the goods;
- b) The Group retains neither continuing managerial involvement to the degree usually associated with ownership nor effective control over the goods sold;
- c) The amount of revenue can be measured reliably;
- d) It is probable that the economic benefits associated with the transaction will flow to the Group; and
- e) The costs incurred or to be incurred in respect of the transaction can be measured reliably.

## 2) Rendering of services

Service income including that from operating services provided under service concession arrangements is recognized when services are provided.

Freight revenue is recognized by reference to the proportion of the voyage period.

Revenue from a contract to provide services is recognized by reference to the stage of completion of the contract or when services are provided.

## 3) Sale of electric power

Revenue from electric power is calculated according to the volume of electric power sold and the energy rate.

#### 4) Dividend and interest income

Dividend income from investments is recognized when a shareholder's right to receive payment has been established provided that it is probable that the economic benefits will flow to the Group and the amount of income can be measured reliably.

Interest income from a financial asset is recognized when it is probable that the economic benefits will flow to the Group and the amount of income can be measured reliably. Interest income is accrued on a time basis, by reference to the principal outstanding and at the applicable effective interest rate.

## r. Leasing

Leases are classified as finance leases whenever the terms of a lease transfer substantially all the risks and rewards of ownership to the lessee. All other leases are classified as operating leases. The lease component of all electric power selling contracts identified in accordance with IFRIC 4 "Determining Whether an Arrangement Contains a Lease" is classified as a finance lease.

## 1) The Group as lessor

Amounts due from lessees under finance leases are recognized as receivables at the amount of the Group's net investment in the leases. Finance lease income is allocated to accounting periods so as to reflect a constant periodic rate of return on the Group's net investment outstanding in respect of the leases.

Rental income from operating leases is recognized on a straight-line basis over the term of the relevant lease.

## 2) The Group as lessee

Assets held under finance leases are initially recognized as assets of the Group at their fair value at the inception of the lease or, if lower, at the present value of the minimum lease payments. The corresponding liability to the lessor is included in the consolidated balance sheet as a finance lease obligation.

Finance expenses implicit in lease payments for each period are recognized immediately in profit or loss, unless they are directly attributable to qualifying assets, and in which case they are capitalized.

Operating lease payments are recognized as expenses on a straight-line basis over the related lease terms.

#### s. Borrowing costs

Borrowing costs directly attributable to the acquisition, construction or production of qualifying assets are added to the cost of those assets, until such time as the assets are substantially ready for their intended use or sale.

Investment income earned on the temporary investment of specific borrowings pending their expenditure on qualifying assets is deducted from the borrowing costs eligible for capitalization.

Other than that which is stated above, all other borrowing costs are recognized in profit or loss in the year in which they are incurred.

#### t. Government grants

Government grants are not recognized until there is reasonable assurance that the Group will comply with the conditions attached to them and that the grants will be received. Government grants that are receivable as compensation for expenses or losses already incurred or for the purpose of giving immediate financial support to the Group with no future related costs are recognized in profit or loss in the period in which they become receivable. Relevant grants of an asset are recognized as deferred revenue or a reduction of the asset's cost on a straight-line basis.

## u. Employee benefits

## 1) Short-term employee benefits

Liabilities recognized in respect of short-term employee benefits are measured at the undiscounted amount of the benefits expected to be paid in exchange for the related services.

#### 2) Retirement benefits

Payments to defined contribution retirement benefit plans are recognized as an expense when employees have rendered services entitling them to the contributions.

Defined benefit costs (including service costs, net interest and remeasurement) under the defined benefit retirement benefit plans are determined using the projected unit credit method. Service costs and net interest on the net defined benefit liability (asset) are recognized as an employee benefits expense in the period in which they occur. Remeasurement, comprising actuarial gains and losses and the return on plan assets (excluding interest), is recognized in other comprehensive income in the period in which it occurs. Remeasurement recognized in other comprehensive income is reflected immediately in retained earnings and will not be reclassified to profit or loss.

The net defined benefit liability (asset) represents the actual deficit (surplus) in the Group's defined benefit plan. Any surplus resulting from this calculation is limited to the present value of any refunds from the plan or reductions in future contributions to the plan.

## 3) Other long-term employee benefits

Other long-term employee benefits are accounted for in the same way as the accounting required for a defined benefit plan except that remeasurement is recognized in profit or loss.

## v. Share-based payment arrangements

The fair value at the grant date of the equity-settled share-based payments is expensed on a straight-line basis over the vesting period, based on the Group's best estimates of the number of shares or options that are expected to ultimately vest, with a corresponding increase in capital surplus - employee share options. It is recognized as an expense in full at the grant date if vested immediately. The grant date of issued ordinary shares for cash which are reserved for employees and treasury shares transferred to employees is the date on which the number of shares purchased by employees purchase is confirmed

#### w. Taxation

Income tax expense represents the sum of the tax currently payable and deferred tax.

#### 1) Current tax

According to the Income Tax Law, an additional tax on unappropriated earnings is provided for in the year the shareholders approve to retain earnings.

Adjustments of prior years' tax liabilities are added to or deducted from the current year's tax provision.

## 2) Deferred tax

Deferred tax is recognized on temporary differences between the consolidated financial statement carrying amounts of assets and liabilities and the corresponding tax bases used in the computation of taxable profit.

Deferred tax liabilities are generally recognized for all taxable temporary differences. Deferred tax assets are generally recognized for all deductible temporary differences, unused loss carryforwards and unused tax credits for research and development expenditures to the extent that it is probable that taxable profits will be available against which those deductible temporary differences can be utilized.

Deferred tax liabilities are recognized for taxable temporary differences associated with investments in subsidiaries, associates and joint ventures, except where the Group is able to control the reversal of the temporary difference and it is probable that the temporary difference will not reverse in the foreseeable future. For deferred tax assets arising from deductible temporary differences associated with such investments and equity, the interests are only recognized to the extent that it is probable that there will be sufficient taxable profits against which to utilize the benefits of the temporary differences and they are expected to reverse in the foreseeable future.

The carrying amount of deferred tax assets is reviewed at the end of each reporting period and reduced to the extent that it is no longer probable that sufficient taxable profits will be available to allow all or part of the assets to be recovered. A previously unrecognized deferred tax asset is also reviewed at the end of each reporting period and recognized to the to the extent that it has become probable that future taxable profit will allow the deferred tax asset to be recovered.

Deferred tax liabilities and assets are measured at the tax rates that are expected to apply in the year in which the liabilities are settled or the assets are realized, based on tax rates and tax laws that have been enacted or substantively enacted by the end of the reporting period. The measurement of deferred tax liabilities and assets reflects the tax consequences that would follow from the manner in which the Group expects, at the end of the reporting period, to recover or settle the carrying amount of its assets and liabilities.

## 3) Current and deferred taxes for the year

Current and deferred taxes are recognized in profit or loss, except when they relate to items that are recognized in other comprehensive income or directly in equity, and in which case, the current and deferred taxes are also recognized in other comprehensive income or directly in equity. Where current tax or deferred tax arises from the initial accounting for a business combination, the tax effect is included in the accounting for the business combination.

# 5. CRITICAL ACCOUNTING JUDGMENTS AND KEY SOURCES OF ESTIMATION UNCERTAINTY

In the application of the Group's accounting policies, management is required to make judgments, estimations and assumptions about the carrying amounts of assets and liabilities that are not readily apparent from other sources. The estimates and associated assumptions are based on historical experience and other factors that are considered relevant. Actual results may differ from these estimates.

The estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognized in the period in which the estimates are revised if the revision affects only that period or in the period of the revision and future periods if the revision affects both current and future periods.

## a. Impairment loss of goodwill

Determining whether goodwill is impaired requires an estimation of the value in use of the cash-generating units to which goodwill has been allocated. The calculation of the value in use requires management to estimate the future cash flows expected to arise from the cash-generating unit and a suitable discount rate in order to calculate the present value. Where the actual future cash flows are less than expected, a material impairment loss may arise.

## b. Impairment loss of property, plant and equipment

The impairment loss of property, plant and equipment in relation to production was based on the recoverable amounts of those assets, which is the higher of their fair value less costs of disposal and their value in use. Any changes in the market prices or future cash flows will affect the recoverable amounts of those assets and may lead to the recognition of additional impairment losses or the reversal of impairment losses.

## 6. CASH AND CASH EQUIVALENTS

|  | December 31  |           |             |                  |
|--|--------------|-----------|-------------|------------------|
|  | -            | 2018      |             | 2017             |
| Cash on hand   | \$           | 9,364     | \$          | 8,031            |
| Checking accounts and demand deposits                        | 21           | ,245,130  | 1           | 5,092,905        |
| Cash equivalents   |              |           |             |                  |
| Time deposits with original maturities of less than 3 months | 26           | 5,914,519 | 1           | 0,148,250        |
| Bonds with repurchase agreements                             |              | 338,876   |             | 1,082,032        |
|  | <u>\$ 48</u> | 3,507,889 | <u>\$ 2</u> | <u>6,331,218</u> |

The market rate intervals of cash in banks and bonds with repurchase agreements at the end of the reporting period were as follows:

|                                  | December 31 |             |
|----------------------------------|-------------|-------------|
|                                  | 2018        | 2017        |
| Cash in banks                    | 0.01%-3.00% | 0.01%-2.60% |
| Bonds with repurchase agreements | 0.31%-2.90% | 0.34%-2.00% |

As of December 31, 2018 and 2017, time deposits with original maturities of more than 3 months were \$2,382,467 thousand and \$916,813 thousand, respectively, which are classified as financial assets at amortized cost and other financial assets.

#### 7. FINANCIAL INSTRUMENTS AT FVTPL

|   | December 31 |                   |
|---|-------------|-------------------|
| Financial assets at FVTPL - current                 | 2018        | 2017              |
| Financial assets held for trading                   |             |                   |
| Non-derivative financial assets                     |             |                   |
| Mutual funds  | \$ -        | \$ 147,049        |
| Financial assets mandatorily classified as at FVTPL |             |                   |
| Non-derivative financial assets                     |             |                   |
| Domestic listed shares                              | 220,787     | -                 |
| Domestic emerging market shares                     | 85,780      | -                 |
| Mutual funds  | 243,271     | -                 |
|   | 549,838     |                   |
|   |             |                   |
|   | \$ 549,838  | <u>\$ 147,049</u> |
|   |             | (Continued)       |

|  | December 31       |                   |
|--|-------------------|-------------------|
|  | 2018              | 2017              |
| Financial liabilities at FVTPL - current   |                   |                   |
| Financial liabilities held for trading Derivative financial liabilities (not under hedge accounting) |                   |                   |
| Convertible options  | <u>\$ 139,460</u> | \$<br>(Concluded) |

## 8. FINANCIAL ASSETS AT FVTOCI (INVESTMENTS IN EQUITY INSTRUMENTS) - 2018

|                      | December 31,<br>2018 |
|----------------------|----------------------|
| <u>Current</u>       |                      |
| Domestic investments |                      |
| Listed shares        | \$ 6,282,884         |
| Preference shares    | 51,375               |
|                      | 6,334,259            |
| Non-current          |                      |
| Domestic investments |                      |
| Unlisted shares      | 5,865,710            |
| Foreign investments  |                      |
| Listed shares        | 19,926,459           |
|                      | \$ 25,792,169        |

These investments in equity instruments were classified as available-for-sale and financial assets carried at cost under IAS 39. Refer to Note 3 and 9 for information relating to their reclassification and comparative information for 2017.

Based on the Group's future investment strategies, the Group reclassified the investments in the foreign listed companies, Anhui Conch Cement Co., Ltd. and China Conch Venture Holdings Limited, from current assets to non-current assets in March 2018.

For the years ended December 31, 2018, the Group paid \$673,918 thousand and \$3,060,365 thousand to acquire shares of E-ONE Moli Energy Corporation and International CSRC Investment Holdings Co., Ltd. The investments increased the Group's percentage of ownership from 15.1% to 29.9% and 12.5% to 19.2%. With a significant impact on the investee, the original investments previously recognized as financial assets at FVTOCI were considered as disposed of and reclassified to investments accounted for by using the equity method. The amount of \$1,321,032 thousand, which was previously recognized as other equity unrealized gain (loss) on financial assets at FVTOCI, was reclassified to retained earnings.

Refer to Note 32 for information relating to investments in equity instruments at FVTOCI pledged as collateral for credit accommodations.

## 9. AVAILABLE-FOR-SALE FINANCIAL ASSETS

|                        | December 31,<br>2017 |
|------------------------|----------------------|
| Domestic investments   |                      |
| Listed shares          | \$ 10,145,547        |
| Emerging market shares | 89,037               |
| Mutual funds           | <u>84,478</u>        |
|                        | 10,319,062           |
| Foreign investments    |                      |
| Listed shares          | <u> 18,238,096</u>   |
|                        | <u>\$ 28,557,158</u> |
| Current                | \$ 25,101,220        |
| Non-current            | 3,455,938            |
|                        |                      |
|                        | \$ 28,557,158        |

Refer to Note 32 for information relating to available-for-sale financial assets pledged as collateral for credit accommodations.

## 10. NOTES AND ACCOUNTS RECEIVABLE

|                                     | December 31          |                      |  |
|-------------------------------------|----------------------|----------------------|--|
|                                     | 2018                 | 2017                 |  |
| Notes receivable                    | \$ 29,759,920        | \$ 20,017,541        |  |
| Accounts receivable                 | 8,255,737            | 7,201,163            |  |
| Less: Allowance for impairment loss | (50,939)             | (142,242)            |  |
|                                     | <u>\$ 37,964,718</u> | <u>\$ 27,076,462</u> |  |

## For the year ended December 31, 2018

The Group recognizes allowance for impairment loss on account receivable on the basis of individual customers for which credit losses have actually taken place. Moreover, the Group separates all customers into different segments based on their risk and determines their expected credit loss rate by reference to past default experience with the counterparties and on analysis of their current financial positions. The Group recognizes an allowance for impairment loss of 100% against past due receivables which have indication of impairment.

The Group writes off an account receivable when there is information indicating that the debtor is experiencing severe financial difficulty and there is no realistic prospect of recovery of the receivable. For accounts receivables that have been written off, the Group continues to engage in enforcement activity to attempt to recover the receivables which are due. Where recoveries are made, these are recognized in profit or loss.

The aging analysis of receivables was as follows:

|               | December 31,<br>2018 |
|---------------|----------------------|
| Up to 90 days | \$ 23,527,413        |
| 91-180 days   | 12,394,387           |
| 181-365 days  | 2,009,676            |
| Over 365 days | 33,242               |
|               | <u>\$ 37,964,718</u> |

The above aging schedule was based on the number of days past due from the invoice date.

The movements of the allowance for doubtful notes and accounts receivable were as follows:

|   | For the Year<br>Ended<br>December 31,<br>2018 |
|---|---|
| Balance at January 1, 2018 per IAS 39         | \$ 142,242                                    |
| Adjustment on initial application of IFRS 9   |   |
| Balance at January 1, 2018 per IFRS 9         | 142,242                                       |
| Less: Impairment losses reversed              | (35,088)                                      |
| Less: Amounts written off                     | (56,163)                                      |
| Foreign exchange translation gains and losses | (52)  |
| Balance at December 31, 2018                  | <u>\$ 50,939</u>                              |

## For the year ended December 31, 2017

In determining the recoverability of notes and accounts receivable, the Group considered any change in the credit quality of the notes and accounts receivable since the date credit was initially granted to the end of the reporting period. The Group recognized an allowance for impairment loss of 100% against receivables when there was indication that the receivable was impaired, and the allowance for impairment loss was recognized against the rest of the past due receivables based on the estimated irrecoverable amounts determined by reference to the past default experience with the counterparties and an analysis of their current financial positions.

For the accounts receivable balances that were past due at the end of the reporting period, the Group did not recognize an allowance for impairment loss, because there was no significant change in the credit quality, and the amounts were still considered recoverable.

The Group had a wide range of unrelated customers, hence the concentration in credit risk is relatively limited.

The aging analysis of receivables was as follows:

|   | December 31,<br>2017                             |
|---|--|
| Up to 90 days<br>91-180 days<br>181-365 days<br>Over 365 days | \$ 20,070,369<br>6,646,244<br>245,462<br>114,387 |
|   | <u>\$ 27,076,462</u>                             |
| Account receivables that were past due but not impaired       | <u>\$ 90,666</u>                                 |

The above aging schedule was based on the number of days past due from the invoice date.

The movements of the allowance for doubtful notes and accounts receivable were as follows:

|                                  | Individually<br>Assessed for<br>Impairment | Collectively<br>Assessed for<br>Impairment | Total             |
|----------------------------------|--|--|-------------------|
| Balance at January 1, 2017       | \$ 99,256                                  | \$ 36,749                                  | \$ 136,005        |
| (Reversal of) allowances         | (1,951)                                    | 3,662                                      | 1,711             |
| Write-offs                       | (1,114)                                    | (1,299)                                    | (2,413)           |
| Effects of exchange rate changes | 6,939                                      |  | 6,939             |
| Balance at December 31, 2017     | <u>\$ 103,130</u>                          | <u>\$ 39,112</u>                           | <u>\$ 142,242</u> |

## 11. FINANCE LEASE RECEIVABLES

|  | December 31          |               |
|--|----------------------|---------------|
|  | 2018                 | 2017          |
| Not later than 1 year                        | \$ 5,040,945         | \$ 4,954,918  |
| Later than 1 year and not later than 5 years | 21,692,882           | 21,155,252    |
| Later than 5 years                           | 27,423,395           | 33,001,970    |
|  | 54,157,222           | 59,112,140    |
| Less: Unearned finance income                | 21,683,760           | 25,398,223    |
| Less: Accumulated impairment                 | 47,878               | 47,878        |
| Present value of minimum lease payments      | <u>\$ 32,425,584</u> | \$ 33,666,039 |
| Current (included in accounts receivable)    | \$ 1,473,788         | \$ 1,240,455  |
| Non-current                                  | 30,951,796           | 32,425,584    |
|  | <u>\$ 32,425,584</u> | \$ 33,666,039 |

After the adoption to IFRSs, the Group's electric power selling contracts with guaranteed power generation periods fall under IFRIC 4 "Determining Whether an Arrangement Contains a Lease" and IAS 17 "Leases". The lease was denominated in New Taiwan dollars, and the term entered into was 25 years.

The interest rate inherent in the lease was fixed at the contract date for the entire lease term. The interest rate inherent in the finance lease was approximately 11.18%.

Refer to Note 32 for information relating to financial lease receivables pledged as collateral for bank borrowings, which were recorded under property, plant and equipment before transitioning to IFRSs.

## 12. INVENTORIES

|                 | December 31         |              |  |
|-----------------|---------------------|--------------|--|
|                 | 2018                | 2017         |  |
| Finished goods  | \$ 2,624,617        | \$ 1,806,371 |  |
| Work in process | 1,322,979           | 1,096,548    |  |
| Raw materials   | 5,516,707           | 5,451,603    |  |
|                 | <u>\$ 9,464,303</u> | \$ 8,354,522 |  |

The cost of inventories recognized as cost of goods sold for the years ended December 31, 2018 and 2017 was \$84,741,088 thousand and \$74,376,931 thousand, respectively.

The cost of goods sold included (reversal of) inventory of write-downs which were as follows:

|                                     | For the Year Ended December 31 |                     |  |
|-------------------------------------|--------------------------------|---------------------|--|
|                                     | 2018                           | 2017                |  |
| (Reversal of) inventory write-downs | <u>\$ 82,954</u>               | <u>\$ (112,076)</u> |  |

Previous write-downs were reversed because related inventories were sold and there was a rebound in market price resulting in an increase in the respective net realizable value.

Refer to Note 33 for information relating to bills of lading pledged as collateral for bank borrowings.

## 13. SUBSIDIARIES

## a. Subsidiaries included in consolidated financial statements

The consolidated financial statements include subsidiaries which are as follows:

|                              |   |   | •           | of Ownership<br>%) |           |
|------------------------------|---|---|-------------|--------------------|-----------|
|                              |   |   | December 31 |                    |           |
| Investor                     | Investee  | Main Business   | 2018        | 2017               | Remark    |
| Taiwan Cement<br>Corporation | Taiwan Transport & Storage<br>Corporation             | Warehousing, transportation and sale of sand and gravel | 83.9        | 83.9               |           |
| _                            | TCC Investment Corporation                            | Investment  | 100.0       | 100.0              |           |
|                              | Kuan-Ho Refractories Industry<br>Corporation          | Production and sale of refractory materials             | 95.3        | 95.3               |           |
|                              | Kuan-Ho Construction &  Development Corporation       | Construction and lease services                         | -           | 92.9               | 5)        |
|                              | Hong Kong Cement  Manufacturing Co., Ltd.  ("HKCMCL") | Investment holding                                      | 84.7        | 84.7               |           |
|                              | Ta-Ho Maritime Corporation                            | Marine transportation                                   | 64.8        | 64.8               |           |
|                              | Taiwan Cement Engineering Corporation                 | Engineering services                                    | 99.0        | 99.0               |           |
|                              | TCC Green Energy Corporation                          | Renewable energy generation                             | 100.0       | 100.0              | 4)        |
|                              | TCC Chemical Corporation                              | Leasing property and energy technology services         | 100.0       | 100.0              | 5)        |
|                              | TCC Information Systems Corporation                   | Information software design                             | 99.4        | 99.4               |           |
|                              | •   |   |             | $(C_{i})$          | ontinued) |

(Continued)

Proportion of Ownership (%)

|  |  |   | (%)   |         |            |
|--|--|---|-------|---------|------------|
|  |  |   | Decer | nber 31 | _          |
| Investor                                       | Investee   | Main Business   | 2018  | 2017    | Remark     |
|  | Taiwan Prosperity Chemical<br>Corporation        | Processing and sale of chemical material                  | 40.0  | 50.0    | 2) 8)      |
|  | Tung Chen Mineral Corporation                    | Afforestation and sale of limestone                       | 99.5  | 99.5    |            |
|  | Jin Chang Minerals Corporation                   | Afforestation and sale of limestone                       | 100.0 | 100.0   |            |
|  | Hoping Industrial Port                           | Hoping Industrial Port management                         | 100.0 | 100.0   |            |
|  | Corporation TCC International Ltd. ("TCCI")      | Investment holding  | 100.0 | 100.0   | 9)         |
|  | Ho-Ping Power Company                            | Thermal power generation                                  | 59.5  | 59.5    |            |
|  | Ta-Ho Taitung Environment Co.,<br>Ltd.           | Waste collection and treatment                            | 100.0 | 100.0   |            |
|  | HPC Power Services Corporation                   | Business consulting                                       | 60.0  | 60.0    |            |
|  | E.G.C. Cement Corporation                        | Sale of cement  | 50.6  | 50.6    |            |
|  | Feng Sheng Enterprise Company<br>Limited         | Sale of ready-mixed concrete                              | 45.4  | 45.4    | 8)         |
|  | Trans Philippines Mineral Corp. ("TPMC")         | Mining excavation   | 40.0  | 40.0    | 8)         |
|  | Taicorn Minerals Corp. ("TMC")                   | Mining excavation   | 72.7  | 72.7    |            |
|  | Ta-Ho Onyx RSEA Environment<br>Co., Ltd.         | Waste collection and treatment                            | 66.6  | 66.6    |            |
|  | Ho Sheng Mining Co., Ltd.                        | Mining excavation   | 100.0 | 100.0   |            |
|  | TCC International Holdings                       | Investment  | 38.3  | 24.1    | 1) 9)      |
|  | Limited ("TCCIH") Taiwan Cement (Dutch) Holdings | Investment  | 100.0 | -       | 12)        |
| Taiwan Transport &                             | B.V.<br>E.G.C. Cement Corporation                | Sale of cement  | 49.4  | 44.4    | 2)         |
| Storage Corporation                            | Ho Swen Construction Material                    | Sand and gravel filtering and sale                        | -     | 51.0    | 3)         |
| Storage Corporation                            | Co., Ltd.  | Sand and graver intering and sale                         |       | 31.0    | 3)         |
|  | Ta-Ho Maritime Corporation                       | Marine transportation                                     | 29.2  | 27.5    | 2)         |
| TCC Investment                                 | Union Cement Traders Inc.                        | Import and export trading                                 | 100.0 | 100.0   |            |
| Corporation                                    | Ho-Ping Power Company                            | Thermal power generation                                  | 0.5   | 0.5     |            |
| •  | Taiwan Prosperity Chemical<br>Corporation        | Processing and sale of chemical material                  | 0.2   | 0.2     | 2) 8)      |
|  | Ta-Ho Maritime Corporation                       | Marine transportation                                     | -     | -       |            |
| HKCMCL   | TCC Development Ltd.                             | Property leasing  | 100.0 | 100.0   |            |
| Ta-Ho Maritime<br>Corporation                  | Ta-Ho Maritime Holdings Ltd.                     | Investment  | 100.0 | 100.0   |            |
| Taiwan Cement<br>Engineering                   | TCEC Corporation                                 | Investment  | -     | 100.0   | 10)        |
| Corporation Taiwan Cement Engineering          | TCEC (Yingde) Machinery Co.,<br>Ltd.             | Production and sale of cement machinery and assembly work | 100.0 | -       | 10)        |
| Corporation                                    | T-: I-f (C) P4-                                  | T   | 100.0 | 100.0   |            |
| TCC Information Systems                        | Taicem Information (Samoa) Pte.,<br>Ltd.         | Investment  | 100.0 | 100.0   |            |
| Corporation Hoping Industrial Port Corporation | Taiwan Prosperity Chemical<br>Corporation        | Processing and sale of chemical material                  | 2.3   | 2.3     | 8)         |
| TCCI   | TCCIH  | Investment holding  | 61.7  | 75.9    | 1) 9)      |
| Feng Sheng Enterprise<br>Company               | Ho Swen Construction Material Co., Ltd.          | Sand and gravel filtering and sale                        | -     | 9.0     | 3)         |
| TPMC   | TMC  | Mining excavation   | 18.2  | 18.2    |            |
| Union Cement Traders                           | Taiwan Transport & Storage                       | Warehousing, transportation and sale                      | 0.7   | 0.7     |            |
| Inc.<br>Ho-Ping Power                          | Corporation Ho-Ping Renewable Energy             | of sand and gravel<br>Renewable energy generation         | 100.0 | -       | 6)         |
| Company<br>TCC Green Energy                    | Company<br>Chang-Wang Wind Power Co.,            | Renewable energy generation                               | 100.0 | -       | 7)         |
| Corporation                                    | Ltd<br>TCC Nan-Chung Green Energy                | Renewable energy generation                               | 100.0 | -       | 7)         |
|  | Corporation TCC Kao-Cheng Green Energy           | Renewable energy generation                               | 100.0 | -       | 7)         |
|  | Corporation TCC Chang-Ho Green Energy            | Renewable energy generation                               | 100.0 | _       | 7)         |
|  | Corporation TCC Chia-Chien Green Energy          | Renewable energy generation                               | 100.0 | _       | 7)         |
|  | Corporation<br>TCC Yun-Kai Green Energy          | Renewable energy generation                               | 100.0 | -       | 7)         |
|  | Corporation TCC Lien-Hsin Green Energy           | Renewable energy generation                               | 100.0 | _       | 7)         |
|  | Corporation Corporation                          | renominate energy generation                              | 100.0 | 10      | Continued) |
|  |  |   |       | ((      | .опшинеа)  |

(Continued)

Proportion of Ownership
(%)
December 31

|  |  | •   | Decen | nber 31 | =          |
|--|--|---|-------|---------|------------|
| Investor   | Investee   | Main Business   | 2018  | 2017    | Remark     |
| Ta-Ho Maritime<br>Holdings Ltd.                              | Ta-Ho Maritime (Hong Kong)<br>Limited                    | Marine transportation                                     | 100.0 | 100.0   |            |
| Holdings Etd.  | THC International S.A.                                   | Marine transportation                                     | 100.0 | 100.0   |            |
|  | Chi Ho Maritime S.A.                                     | Marine transportation                                     | 100.0 | 100.0   |            |
|  | Sheng Ho Maritime S.A.                                   | Marine transportation                                     | 100.0 | 100.0   |            |
|  |  |   |       |         |            |
|  | Ta-Ho Maritime (Singapore) Pte.                          | Marine transportation                                     | 100.0 | 100.0   |            |
| TCEC Corporation   | Ltd. TCEC (Yingde) Machine Co., Ltd.                     | Production and sale of cement machinery and assembly work | -     | 100.0   | 10)        |
| Taicem Information (Samoa) Pte., Ltd.                        | Fuzhou TCC Information<br>Technology Co., Ltd.           | Software product and equipment maintenance                | 100.0 | 100.0   |            |
| Ta-Ho Maritime<br>(Hong Kong)<br>Limited                     | Da Tong (Guigang) International<br>Logistics Co., Ltd.   | Logistics and transportation                              | 100.0 | 100.0   |            |
| Da Tong (Guigang)<br>International                           | Da Tong (Ying De) Logistics Co.,<br>Ltd.                 | Logistics and transportation                              | 100.0 | 100.0   |            |
| Logistics Co., Ltd.  | Guigang Da-Ho Shipping Co.,<br>Ltd.                      | Marine transportation                                     | 100.0 | 100.0   |            |
| TCCIH  | Chia Hsin Cement Greater China<br>Holding Corporation    | Investment holding  | 100.0 | 100.0   |            |
|  | Upper Value Investment Limited                           | Investment holding  | 100.0 | 100.0   |            |
|  | Upper Value Investments Ltd. ("UPPV")                    | Investment holding  | 100.0 | 100.0   |            |
|  | TCC Hong Kong Cement (BVI) Holdings Ltd.                 | Investment holding  | 100.0 | 100.0   |            |
|  | Ulexite Investments Ltd.                                 | Investment holding  | 100.0 | 100.0   |            |
| Upper Value  | Prime York Ltd.  | Investment holding  | 100.0 | 100.0   |            |
| Investment Limited   | Prosperity Minerals                                      | Investment holding  | 100.0 | 100.0   |            |
|  | (International) Limited                                  | C   |       |         |            |
| TCC Hong Kong<br>Cement (BVI)                                | TCC Hong Kong Cement Development Ltd.                    | Investment holding  | 100.0 | 100.0   |            |
| Holdings Ltd.  | TCC Hong Kong Cement ("QHC") Ltd.                        | Investment holding  | 100.0 | 100.0   |            |
|  | TCC Hong Kong Cement (Yargoon) Ltd.                      | Investment holding  | 100.0 | 100.0   |            |
|  | TCC Hong Kong Cement ("HKC") Ltd.                        | Investment holding  | 100.0 | 100.0   |            |
|  | TCC Hong Kong Cement (Philippines) Ltd.                  | Investment holding  | 100.0 | 100.0   |            |
|  | TCC Hong Kong Cement (International) Ltd.                | Investment holding  | 100.0 | 100.0   |            |
|  | Hong Kong Cement Company<br>Limited ("HKCCL")            | Sale of cement  | 100.0 | 100.0   |            |
| TCC Hong Kong<br>Cement (QHC) Ltd.                           | Chiefolk Company Ltd.                                    | Investment holding  | 70.0  | 70.0    |            |
| Chiefolk Company<br>Ltd.                                     | TCC International (Liuzhou) Ltd.                         | Investment holding  | 100.0 | 100.0   |            |
| TCC International (Liuzhou) Ltd.                             | TCC Liuzhou Company Ltd.                                 | Investment holding  | 100.0 | 100.0   |            |
| TCC Liuzhou<br>Company Ltd.                                  | TCC Liuzhou Construction<br>Materials Co., Ltd.          | Manufacturing and sale of slag                            | 60.0  | 60.0    |            |
| TCC Hong Kong<br>Cement (HKC) Ltd.                           | Koning Concrete Ltd.                                     | Investment holding  | -     | 100.0   | 11)        |
| TCC Hong Kong<br>Cement                                      | TCC Cement Corporation                                   | Cement processing services                                | 100.0 | 100.0   |            |
| (Philippines) Ltd. TCC Hong Kong Cement (International) Ltd. | TCC International (Hong Kong)<br>Co., Ltd. ("TCCI (HK)") | Investment holding  | 100.0 | 100.0   |            |
| TCCI (HK)  | TCC Guigang Mining Industrial<br>Company Limited         | Mining excavation   | 52.5  | 52.5    |            |
|  | Jiangsu TCC Investment Co., Ltd.                         | Investment holding  | 100.0 | 100.0   |            |
|  | Jingyang Industrial Limited                              | Investment holding  | 100.0 | 100.0   |            |
|  | TCC International (Guangxi) Ltd.                         | Investment holding  | 100.0 | 100.0   |            |
|  | TCC Shaoguan Cement Co., Ltd.                            | Manufacturing and sale of cement                          | 100.0 | 100.0   |            |
|  | TCC Yingde Mining Industrial Company Limited             | Mining excavation   | 48.9  | 48.9    |            |
|  | TCC Yingde Cement Co., Ltd.                              | Manufacturing and sale of cement                          | 100.0 | 100.0   |            |
|  | -  | Ü   |       |         | Continued) |

| Proportion of Ownership |
|-------------------------|
| (%)                     |

|  |   |  |       | <i>(</i> 6) | _          |
|--|---|--|-------|-------------|------------|
|  |   |  | Decen | ıber 31     | _          |
| Investor                                 | Investee  | Main Business  | 2018  | 2017        | Remark     |
|  | TCC Jiangsu Mining Industrial<br>Company Limited              | Mining excavation  | 100.0 | 100.0       |            |
|  | TCC Fuzhou Yangyu Port Co.,<br>Ltd.                           | Service of port facility   | 100.0 | 100.0       |            |
|  | TCC (Dong Guan) Cement<br>Company Ltd.                        | Manufacturing and sale of cement                                     | 100.0 | 100.0       |            |
|  |   | Manufacturing and sale of coment                                     | 100.0 | 100.0       |            |
|  | TCC Fuzhou Cement Co., Ltd. TCC Huaihua Cement Company        | Manufacturing and sale of cement<br>Manufacturing and sale of cement | 100.0 | 100.0       |            |
|  | Limited Anhui King Bridge Cement Co., Ltd.                    | Manufacturing and sale of cement                                     | 60.0  | 60.0        |            |
| Jiangsu TCC<br>Investment Co.,           | Jurong TCC Cement Co., Ltd.                                   | Manufacturing and sale of cement                                     | 21.5  | 21.5        |            |
| Ltd. Jingyang Industrial Limited         | Jurong TCC Cement Co., Ltd.                                   | Manufacturing and sale of cement                                     | 78.5  | 78.5        |            |
| TCC International (Guangxi) Ltd.         | TCC (Guigang) Cement Ltd.                                     | Manufacturing and sale of cement                                     | 100.0 | 100.0       |            |
| TCC (Guigang) Cement Ltd.                | TCC Huaying Cement Company<br>Limited                         | Manufacturing and sale of cement                                     | 100.0 | 100.0       |            |
| Cement Eta.                              | TCC Guigang Mining Industrial<br>Company Limited              | Mining excavation  | 47.5  | 47.5        |            |
|  | Guigang TCC DongYuan Environmental Technology Company Limited | Hazardous waste treatment  | 95.2  | -           | 13)        |
| TCC Yingde Cement Co., Ltd.              | TCC Yingde Mining Industrial<br>Company Limited               | Mining excavation  | 34.8  | 34.8        |            |
| Co., Ltd.                                | Scitus Luzhou Concrete Co., Ltd.                              | Sale of ready-mixed concrete   | 25.0  | 25.0        |            |
|  | Scitus Luzhou Cement Co., Ltd.                                | Manufacturing and sale of cement                                     | 10.0  | 10.0        |            |
|  | Scitus Naxi Cement Co., Ltd.                                  | Manufacturing and sale of cement                                     | 10.0  | 10.0        |            |
|  | Scitus Hejiang Cement Co., Ltd.                               | Manufacturing and sale of cement                                     | 10.0  | 10.0        |            |
| TCC Jiangsu Mining<br>Industrial Company | TCC Yingde Mining Industrial Company Limited                  | Mining excavation  | 16.3  | 16.3        |            |
| Limited<br>TCC Huaihua Cement            | TCC Jingzhou Cement Company                                   | Manufacturing and sale of cement                                     | 100.0 | 100.0       |            |
| Company Limited                          | Limited TCC Huaihua Concrete Company                          | Sale of ready-mixed concrete   | 100.0 | 100.0       |            |
| Ulexite Investments                      | Limited HKC Investments Ltd.                                  | Investment holding   | 100.0 | 100.0       |            |
| Ltd.<br>UPPV                             | Wayly Holdings Limited.                                       | Investment holding   | 100.0 | 100.0       |            |
|  | TCC International (China) Company Limited                     | Investment holding   | 100.0 | 100.0       |            |
|  | Kong On Cement Holdings Ltd.                                  | Investment holding   | 65.0  | 65.0        |            |
|  | Mega East Ltd.  | Investment holding   | 100.0 | 100.0       |            |
|  | Prosperity Minerals (China)<br>Limited.                       | Investment holding   | 100.0 | 100.0       |            |
|  | Sure Kit Ltd.   | Investment holding   | 100.0 | 100.0       |            |
|  | Hensford Ltd.   | Investment holding   | 100.0 | 100.0       |            |
|  | Kiton Ltd.  | Investment holding   | 100.0 | 100.0       |            |
|  | Prosperity Cement Investment Ltd.                             | Investment holding   | 100.0 | 100.0       |            |
|  | Scitus Cement (China) Holdings<br>Ltd. ("Scitus Holdings")    | Investment holding   | 100.0 | 100.0       |            |
| Wayly Holdings Ltd.                      | Guizhou Kaili Rui An Jian Cai<br>Co., Ltd.                    | Manufacturing and sale of cement                                     | 100.0 | 100.0       |            |
| TCC International (China) Co., Ltd.      | TCC New (Hangzhou)  Management Company  Limited               | Operation management   | 100.0 | 100.0       |            |
| Kong On Cement<br>Holdings Ltd.          | Guizhou Kong On Cement<br>Company Limited                     | Manufacturing and sale of cement                                     | 100.0 | 100.0       |            |
| Mega East Ltd.                           | TCC Guangan Cement Company<br>Limited                         | Manufacturing and sale of cement                                     | 100.0 | 100.0       |            |
| Sure Kit Ltd.                            | TCC Chongqing Cement<br>Company Limited                       | Manufacturing and sale of cement                                     | 100.0 | 100.0       |            |
| Hensford Ltd.                            | TCC Anshun Cement Company<br>Limited                          | Manufacturing and sale of cement                                     | 100.0 | 100.0       |            |
|  |   |  |       | (6          | lantinuad) |

(Continued)

|                                      |  |   |       | of Ownership<br>%) |          |
|--------------------------------------|--|---|-------|--------------------|----------|
|                                      |  |   | Decen | nber 31            |          |
| Investor                             | Investee   | Main Business   | 2018  | 2017               | Remark   |
| Kiton Ltd.                           | TCC Liaoning Cement Company<br>Limited                   | Manufacturing and sale of cement                              | 100.0 | 100.0              |          |
| Prosperity Cement Investment Ltd.    | Yingde Dragon Mountain Cement Co, Ltd.                   | Manufacturing and sale of cement                              | 100.0 | 100.0              |          |
| TCC Anshun Cement<br>Company Limited | Anshun Xin Tai Construction<br>Materials Company Limited | Filtering of sand and gravel and sale of ready-mixed concrete | 100.0 | 100.0              |          |
| Scitus Holdings                      | Scitus Cement (China) Operating Co., Limited.            | Investment holding  | 100.0 | 100.0              |          |
|                                      | Hexagon XIV Holdings Limited                             | Investment holding  | 100.0 | 100.0              |          |
|                                      | Hexagon XIII Holdings Limited                            | Investment holding  | 100.0 | 100.0              |          |
|                                      | Hexagon IX Holdings Limited                              | Investment holding  | 100.0 | 100.0              |          |
|                                      | Hexagon VIII Holdings Limited                            | Investment holding  | 100.0 | 100.0              |          |
|                                      | Hexagon V Holdings Limited                               | Investment holding  | 100.0 | 100.0              |          |
|                                      | Hexagon IV Holdings Limited                              | Investment holding  | 100.0 | 100.0              |          |
|                                      | Hexagon III Holdings Limited                             | Investment holding  | 100.0 | 100.0              |          |
|                                      | Hexagon II Holdings Limited                              | Investment holding  | 100.0 | 100.0              |          |
|                                      | Hexagon Holdings Limited                                 | Investment holding  | 100.0 | 100.0              |          |
| Hexagon IX Holdings<br>Ltd.          | Scitus Hejiang Cement Co., Ltd.                          | Manufacturing and sale of cement                              | 90.0  | 90.0               |          |
| Hexagon IV Holdings<br>Ltd.          | Scitus Luzhou Cement Co., Ltd.                           | Manufacturing and sale of cement                              | 90.0  | 90.0               |          |
| Hexagon III Holdings<br>Ltd.         | Scitus Naxi Cement Co., Ltd.                             | Manufacturing and sale of cement                              | 90.0  | 90.0               |          |
| Hexagon XIV<br>Holdings Ltd.         | Scitus Luzhou Concrete Co., Ltd.                         | Sales of ready-mixed concrete                                 | 75.0  | 75.0               |          |
|                                      |  |   |       | $(C_{\alpha})$     | (bobulea |

(Concluded)

Proportion of Ownership

#### Remarks:

- 1) Refer to Note 27 for information on the related acquisition transaction.
- 2) The Corporation and TCC Investment Corporation successively disposed of a portion of its interest in Taiwan Prosperity Chemical Corporation in 2018 and 2017, respectively. Taiwan Transport & Storage Corporation acquired a portion of interest in Ta-Ho Maritime Corporation and E.G.C. Cement Corporation respectively in 2018.
- 3) Ho Swen Construction Material Co., Ltd. had final liquidation as of December 31, 2018.
- 4) Tunwoo Company Limited changed its Chinese-language name to TCC Green Energy Corporation in March 2018. Its original main business was warehousing and selling cement. A resolution of its board of directors resolved to change its main business to renewable energy generation in October 2017.
- 5) TCC Chemical Corporation changed its Chinese-language name in December 2017. Its original main business was processing and selling chemical materials. Its board of directors resolved to changed its main business to leasing property and energy technology services in November 2017. For the propose of streamlining its investment structure, its board of directors approved to merge Kuan-Ho Construction & Development Corporation and TCC Chemical Corporation with the latter as the surviving company. The effective date of the merger was January 1, 2018.
- 6) Ho-Ping Renewable Energy Company was established in April 2018 and was included into the consolidated financial statements.
- 7) TCC Chia-Chien Green Energy Corporation, TCC Yun-Kai Green Energy Corporation and TCC Lien-Hsin Green Energy Corporation were established in May 2018. TCC Kao-Cheng Green Energy Corporation, TCC Nan-Chung Green Energy Corporation and TCC Chang-Ho Green Energy Corporation were established in July 2018. Chang-Wang Wind Power Co., Ltd was established in December 2018. These entities were consolidated into the financial statements.

- 8) Although the Group's percentages of ownership in Taiwan Prosperity Chemical Corporation, Feng Sheng Enterprise Company and TPMC were less than 50% for the year ended December 31, 2018, the Group still has control over those entities. Thus, Taiwan Prosperity Chemical Corporation, Feng Sheng Enterprise Company and TPMC are considered as subsidiaries of the Group.
- 9) Taiwan Cement Corporation increased its investment in the capital of TCCI and TCCIH in August and December 2018, but TCCI did not simultaneously increase its investment in the capital of TCCIH. Thus, Taiwan Cement Corporation's percentage of ownership in TCCIH increased from 24.1% to 38.3%, and TCCI's percentages of ownership in TCCIH decreased from 75.9% to 61.7%.
- 10) Taiwan Cement Engineering Corporation originally indirectly owned 100% of shares in TCEC (Yingde) Machine Co., Ltd. through TCEC Corporation. The Brunei Darussalam government announced on December 22, 2016 that all international corporations have to wind up their business. Therefore, Taiwan Cement Engineering Corporation's direct ownership in TCEC (Yingde) Machine Co., Ltd. will have to wind up, and relevant procedures were finished in December 2018.
- 11) For the purpose of streamlining investment structure, Koning Concrete Ltd. was dissolved and cancelled.
- 12) Its board of directors resolved to establish Taiwan Cement (Dutch) Holdings B.V. in October 2018, which established the joint venture (Dutch OYAK TCC Holdings B.V.) with Ordu Yardimlasma Kurumuwhich. The Group obtained 40% of interests of joint venture investing in cash and indirectly acquired the cement investment projects in areas such as Turkey.
- 13) The Group setup TCC (Guigang) Dung Yuan Green Energy Corporation by means of joint venture in June 2018, the group hold 40% of interests of which, in October 2018, The board of directors of TCC (Guigang) Cement Limited approved the \$116 million that was initially financed to TCC (Guigang) Dung Yuan Green Corporation and converted it to share capital, and the holding rate of interests increased to 95.2%.
- b. Details of subsidiaries with material non-controlling interests

|  | Proportion of Ownership and<br>Voting Rights Held by<br>Non-controlling Interests |       |
|--|---|-------|
|  | December 31   |       |
| Name of Subsidiary                     | 2018  | 2017  |
| Taiwan Prosperity Chemical Corporation | 57.5%   | 47.5% |
| Ho-Ping Power Company                  | 40.0%   | 40.0% |

See Table 8 following the Notes to Consolidated Financial Statements for the information on the places of incorporation and principal businesses.

The summarized financial information below represents amounts before intragroup eliminations.

# Taiwan Prosperity Chemical Corporation

|  | December 31               |                           |  |
|--|---------------------------|---------------------------|--|
|  | 2018                      | 2017                      |  |
| Current assets Non-current assets  | \$ 5,434,627<br>6,079,902 | \$ 4,015,117<br>6,796,106 |  |
| Current liabilities  | (4,138,703)               | (6,072,209)               |  |
| Non-current liabilities  | (3,842,504)               | (1,521,222)               |  |
| Equity   | \$ 3,533,242              | \$ 3,217,792              |  |
| Equity attributable to: Owners of Taiwan Prosperity Chemical Corporation Non-controlling interests of Taiwan Prosperity Chemical                   | \$ 1,502,047              | \$ 1,690,157              |  |
| Corporation  | 2,031,195                 | 1,527,635                 |  |
|  | <u>\$ 3,533,242</u>       | \$ 3,217,792              |  |
|  | For the Year End          | led December 31           |  |
|  | 2018                      | 2017                      |  |
| Operating revenue  | <u>\$ 15,166,053</u>      | \$ 13,192,984             |  |
| Income (loss) for the year  Other comprehensive income for the year  | \$ 332,064<br>(16,614)    | \$ (354,571)<br>166,217   |  |
| Other comprehensive income for the year  | (10,014)                  | 100,217                   |  |
| Total comprehensive Income (loss) for the year   | <u>\$ 315,450</u>         | <u>\$ (188,354)</u>       |  |
| Loss attributable to: Owners of Taiwan Prosperity Chemical Corporation Non-controlling interests of Taiwan Prosperity Chemical                     | \$ 161,640                | \$ (187,325)              |  |
| Corporation  | 170,424                   | (167,246)                 |  |
|  | \$ 332,064                | <u>\$ (354,571)</u>       |  |
| Total comprehensive loss attributable to: Owners of Taiwan Prosperity Chemical Corporation Non-controlling interests of Taiwan Prosperity Chemical | \$ 133,965                | \$ (100,076)              |  |
| Corporation  | <u>181,485</u>            | (88,278)                  |  |
|  | \$ 315,450                | <u>\$ (188,354)</u>       |  |
| Net cash inflow (outflow) from:  | ¢ 476.022                 | ¢ 496.913                 |  |
| Operating activities Investing activities  | \$ 476,933<br>1,468       | \$ 486,812<br>114,626     |  |
| Financing activities   | 465,913                   | (4,479)                   |  |
| Net cash inflow  | <u>\$ 944,314</u>         | \$ 596,959                |  |

# **Ho-Ping Power Company**

| Current assets         \$7,115,395         \$6,132,653           Non-current assets         31,537,715         32,905,948           Current liabilities         (6,627,008)         (3,886,143)           Non-current liabilities         (3,353,289)         (3,886,143)           Non-current liabilities         (3,353,289)         (3,870,891)           Equity attributable to:         28,672,213         \$12,81,667           Owners of Ho-Ping Power Company         \$17,199,861         \$18,765,474           Non-controlling interests of Ho-Ping Power Company         \$11,472,352         \$12,516,094           Operating revenue         \$2,8672,213         \$31,281,568           Profit for the year         \$2,8672,213         \$31,281,568           Profit for the year         \$2,807,778         \$12,516,094           Operating revenue         \$12,777,360         \$1,0353,637           Profit for the year         \$2,390,778         \$2,975,364           Other comprehensive income (loss) for the year         \$2,390,788         \$2,975,364           Total comprehensive income for the year         \$2,390,646         \$2,961,088           Profit attributable to:         \$2,390,778         \$2,975,364           Total comprehensive income attributable to:         \$2,390,7  |  | December 31          |                       |  |
|--|--|----------------------|-----------------------|--|
| Non-current assets         31,537,715         32,905,948           Current liabilities         (6,627,608)         (3,886,143)           Non-current liabilities         23,353,289)         -(3,870,891)           Equity         \$2,86,72,213         \$31,281,567           Equity attributable to:         0wners of Ho-Ping Power Company         \$17,199,861         \$18,765,474           Non-controlling interests of Ho-Ping Power Company         \$11,472,352         \$12,516,094           Non-controlling interests of Ho-Ping Power Company         \$2,86,72,213         \$31,281,568           For the Year Ember Joint Year           Operating revenue         \$12,777,360         \$10,353,637           Profit for the year         \$2,390,778         \$2,975,364           Other comprehensive income (loss) for the year         \$2,390,646         \$2,961,088           Profit attributable to:           Owners of Ho-Ping Power Company         \$1,434,468         \$1,785,219           Non-controlling interests of Ho-Ping Power Company         \$1,434,488         \$1,776,653           Non-controlling interests of Ho-Ping Power Company         \$1,434,388         \$1,776,653           Non-controlling interests of Ho-Ping Power Company         \$1,434,388         \$1,786,521           Net cash inflow (   |  |                      |                       |  |
| Current liabilities         (6,627,608) (3,886,143) (3,353,289)         (3,886,143) (3,353,289)         (3,886,143) (3,857,891)           Equity         \$ 28,672,213         \$ 31,281,567           Equity attributable to:   | Current assets   | \$ 7,115,395         | \$ 6,132,653          |  |
| Non-current liabilities         (3,353,289)         (3,870,891)           Equity         \$ 28,672,213         \$ 31,281,567           Equity attributable to:         Owners of Ho-Ping Power Company         \$ 17,199,861         \$ 18,765,474           Non-controlling interests of Ho-Ping Power Company         \$ 17,199,861         \$ 18,765,474           Non-controlling interests of Ho-Ping Power Company         \$ 11,472,352         \$ 12,516,094           Profit for the year         \$ 28,672,213         \$ 31,281,568           Profit for the year         \$ 2,390,778         \$ 2,017           Operating revenue         \$ 2,390,778         \$ 2,975,364           Other comprehensive income (loss) for the year         \$ 2,390,778         \$ 2,975,364           Other comprehensive income for the year         \$ 2,390,646         \$ 2,961,088           Profit attributable to:         \$ 2,390,646         \$ 2,975,364           Owners of Ho-Ping Power Company         \$ 1,434,488         \$ 1,778,5219           Non-controlling interests of Ho-Ping Power Company         \$ 1,434,388         \$ 1,776,653           Non-controlling interests of Ho-Ping Power Company         \$ 1,434,388         \$ 1,776,653           Non-controlling interests of Ho-Ping Power Company         \$ 1,434,388         \$ 1,776,653           Non-controlling interests of Ho-Ping Power Com   | Non-current assets   | 31,537,715           | 32,905,948            |  |
| Equity         \$ 28,672,213         \$ 31,281,567           Equity attributable to:         Owners of Ho-Ping Power Company Non-controlling interests of Ho-Ping Power Company         \$ 17,199,861         \$ 18,765,474           Non-controlling interests of Ho-Ping Power Company         \$ 28,672,213         \$ 31,281,568           Operating revenue         For the Year En-december 31 2018           Profit for the year         \$ 2,390,778         \$ 2,975,364           Other comprehensive income (loss) for the year         \$ 2,390,646         \$ 2,961,088           Profit attributable to:         Owners of Ho-Ping Power Company         \$ 1,434,468         \$ 1,785,219           Non-controlling interests of Ho-Ping Power Company         \$ 2,390,778         \$ 2,975,364           Total comprehensive income attributable to:         \$ 2,390,778         \$ 2,975,364           Owners of Ho-Ping Power Company         \$ 1,434,468         \$ 1,785,219           Non-controlling interests of Ho-Ping Power Company         \$ 1,434,388         \$ 1,776,653           Non-controlling interests of Ho-Ping Power Company         \$ 1,434,388         \$ 1,776,653           Non-controlling interests of Ho-Ping Power Company         \$ 2,390,646         \$ 2,961,088           Net cash inflow (outflow) from:         Operating activities         \$ 4,019,768         \$ 3,859,757  | Current liabilities  | (6,627,608)          | (3,886,143)           |  |
| Equity attributable to:  | Non-current liabilities                                      | (3,353,289)          | (3,870,891)           |  |
| Owners of Ho-Ping Power Company<br>Non-controlling interests of Ho-Ping Power Company         \$ 17,199,861<br>11,472,352         \$ 18,765,474<br>12,516,094           Ever the Year Ended December 31<br>2018           For the Year Ended December 31<br>2018           Profit for the Year         \$ 12,777,360         \$ 10,353,637           Profit for the year         \$ 2,390,778         \$ 2,975,364           Other comprehensive income (loss) for the year         \$ 2,390,646         \$ 2,961,088           Profit attributable to:         0wners of Ho-Ping Power Company         \$ 1,434,468         \$ 1,785,219           Non-controlling interests of Ho-Ping Power Company         \$ 2,390,778         \$ 2,975,364           Total comprehensive income attributable to:         0wners of Ho-Ping Power Company         \$ 1,434,468         \$ 1,785,219           Non-controlling interests of Ho-Ping Power Company         \$ 1,434,388         \$ 1,776,653           Non-controlling interests of Ho-Ping Power Company         \$ 1,434,388         \$ 1,776,653           Non-controlling interests of Ho-Ping Power Company         \$ 2,390,646         \$ 2,961,088           Net cash inflow (outflow) from:         \$ 2,390,646         \$ 2,961,088           Net cash inflow (outflow) from:         \$ 4,019,768         \$ 3,859,757           Investing activities         \$ 4,019,768         \$ 3,859,757   | Equity   | <u>\$ 28,672,213</u> | <u>\$ 31,281,567</u>  |  |
| Non-controlling interests of Ho-Ping Power Company   | Equity attributable to:                                      |                      |                       |  |
| Non-controlling interests of Ho-Ping Power Company   | Owners of Ho-Ping Power Company                              | \$ 17,199,861        | \$ 18,765,474         |  |
| For the Year End- December 31   2018   2017   2018   2017   2018   2017   2018   2017   2018   2017   2018   2017   2018   2017   2018   2017   2018   2017   2018   2017   2018   2017   2018   2017   2018   2017   2018   2017   2018   2017   2018   2017   2018   201 |  | 11,472,352           | 12,516,094            |  |
| Coperating revenue   S   12,777,360   S   10,353,637   |  | \$ 28,672,213        | <u>\$ 31,281,568</u>  |  |
| Operating revenue         \$ 12,777,360         \$ 10,353,637           Profit for the year         \$ 2,390,778         \$ 2,975,364           Other comprehensive income (loss) for the year         \$ 2,390,646         \$ 2,961,088           Profit attributable to:         \$ 2,390,646         \$ 2,961,088           Profit attributable to:         \$ 1,434,468         \$ 1,785,219           Non-controlling interests of Ho-Ping Power Company         \$ 1,434,468         \$ 1,785,219           Non-controlling interests of Ho-Ping Power Company         \$ 2,390,778         \$ 2,975,364           Total comprehensive income attributable to:         \$ 2,390,778         \$ 2,975,364           Total comprehensive income attributable to:         \$ 2,390,646         \$ 2,961,088           Non-controlling interests of Ho-Ping Power Company         \$ 1,434,388         \$ 1,776,653           Non-controlling interests of Ho-Ping Power Company         \$ 2,390,646         \$ 2,961,088           Net cash inflow (outflow) from:         \$ 2,390,646         \$ 2,961,088           Net cash inflow (outflow) from:         \$ 4,019,768         \$ 3,859,757           Investing activities         \$ 4,019,768         \$ 3,859,757           Investing activities         \$ (114,722)         (84,128)           Financing activities         \$ (3,627,325)         (7,190,080) <td></td> <td>For the Year End</td> <td>led December 31</td>  |  | For the Year End     | led December 31       |  |
| Profit for the year Other comprehensive income (loss) for the year \$2,390,778 (132) (14,276)  Total comprehensive income for the year \$2,390,646 (132) (14,276)  Total comprehensive income for the year \$2,390,646 (14,276)  Profit attributable to:  Owners of Ho-Ping Power Company \$1,434,468 \$1,785,219 (19,0145)  Non-controlling interests of Ho-Ping Power Company \$2,390,778 (19,0145)  Total comprehensive income attributable to:  Owners of Ho-Ping Power Company \$1,434,388 \$1,776,653 (19,0145)  Non-controlling interests of Ho-Ping Power Company \$956,258 \$1,184,435 (11,84,435)  Net cash inflow (outflow) from:  Operating activities \$4,019,768 \$3,859,757 (114,722) (84,128) (114,722) (84,128) (114,722) (7,190,080)  Net cash outflow \$2,77,721 \$1,444,51)  Dividends paid to non-controlling interests of Ho-Ping Power  |  | 2018                 | 2017                  |  |
| Other comprehensive income (loss) for the year         (132)         (14,276)           Total comprehensive income for the year         \$2,390,646         \$2,961,088           Profit attributable to:         \$1,434,468         \$1,785,219           Non-controlling interests of Ho-Ping Power Company         \$1,434,468         \$1,785,219           Non-controlling interests of Ho-Ping Power Company         \$2,390,778         \$2,975,364           Total comprehensive income attributable to:         \$2,390,778         \$1,776,653           Non-controlling interests of Ho-Ping Power Company         \$1,434,388         \$1,776,653           Non-controlling interests of Ho-Ping Power Company         \$956,258         \$1,184,435           \$2,390,646         \$2,961,088           Net cash inflow (outflow) from:         \$4,019,768         \$3,859,757           Investing activities         \$4,019,768         \$3,859,757           Investing activities         \$(114,722)         \$(84,128)           Financing activities         \$(3,627,325)         \$(7,190,080)           Net cash outflow         \$277,721         \$(3,414,451)   | Operating revenue  | <u>\$ 12,777,360</u> | <u>\$ 10,353,637</u>  |  |
| Other comprehensive income (loss) for the year         (132)         (14,276)           Total comprehensive income for the year         \$2,390,646         \$2,961,088           Profit attributable to:         \$1,434,468         \$1,785,219           Non-controlling interests of Ho-Ping Power Company         \$1,434,468         \$1,785,219           Non-controlling interests of Ho-Ping Power Company         \$2,390,778         \$2,975,364           Total comprehensive income attributable to:         \$2,390,778         \$1,776,653           Non-controlling interests of Ho-Ping Power Company         \$1,434,388         \$1,776,653           Non-controlling interests of Ho-Ping Power Company         \$956,258         \$1,184,435           \$2,390,646         \$2,961,088           Net cash inflow (outflow) from:         \$4,019,768         \$3,859,757           Investing activities         \$4,019,768         \$3,859,757           Investing activities         \$(114,722)         \$(84,128)           Financing activities         \$(3,627,325)         \$(7,190,080)           Net cash outflow         \$277,721         \$(3,414,451)   | Profit for the year  | \$ 2,390,778         | \$ 2,975,364          |  |
| Profit attributable to:     Owners of Ho-Ping Power Company     Non-controlling interests of Ho-Ping Power Company     S   |  |                      |                       |  |
| Owners of Ho-Ping Power Company         \$ 1,434,468         \$ 1,785,219           Non-controlling interests of Ho-Ping Power Company         \$ 2,390,778         \$ 2,975,364           Total comprehensive income attributable to:         \$ 2,390,778         \$ 2,975,364           Owners of Ho-Ping Power Company         \$ 1,434,388         \$ 1,776,653           Non-controlling interests of Ho-Ping Power Company         \$ 956,258         \$ 1,184,435           Net cash inflow (outflow) from:         \$ 2,390,646         \$ 2,961,088           Net cash inflow (outflow) from:         \$ 4,019,768         \$ 3,859,757           Investing activities         \$ (114,722)         \$ (84,128)           Financing activities         \$ (3,627,325)         \$ (7,190,080)           Net cash outflow         \$ 277,721         \$ (3,414,451)           Dividends paid to non-controlling interests of Ho-Ping Power         \$ 277,721         \$ (3,414,451)   | Total comprehensive income for the year                      | <u>\$ 2,390,646</u>  | \$ 2,961,088          |  |
| Non-controlling interests of Ho-Ping Power Company         956,310         1,190,145           \$ 2,390,778         \$ 2,975,364           Total comprehensive income attributable to:             Owners of Ho-Ping Power Company         \$ 1,434,388         \$ 1,776,653           Non-controlling interests of Ho-Ping Power Company         \$ 956,258         \$ 1,184,435           Net cash inflow (outflow) from:             Operating activities         \$ 4,019,768         \$ 3,859,757           Investing activities         \$ (114,722)         \$ (84,128)           Financing activities         \$ (3,627,325)         \$ (7,190,080)           Net cash outflow         \$ 277,721         \$ (3,414,451)           Dividends paid to non-controlling interests of Ho-Ping Power         \$ 277,721         \$ (3,414,451)  | Profit attributable to:                                      |                      |                       |  |
| \$\frac{\$\\$2,390,778}\$  | Owners of Ho-Ping Power Company                              | \$ 1,434,468         | \$ 1,785,219          |  |
| Total comprehensive income attributable to:         \$ 1,434,388 \$ 1,776,653           Owners of Ho-Ping Power Company         \$ 1,434,388 \$ 1,776,653           Non-controlling interests of Ho-Ping Power Company         \$ 956,258 \$ 1,184,435           Net cash inflow (outflow) from:         \$ 2,390,646 \$ 2,961,088           Operating activities         \$ 4,019,768 \$ 3,859,757           Investing activities         \$ (114,722) \$ (84,128)           Financing activities         \$ (3,627,325) \$ (7,190,080)           Net cash outflow         \$ 277,721 \$ (3,414,451)           Dividends paid to non-controlling interests of Ho-Ping Power   | Non-controlling interests of Ho-Ping Power Company           | 956,310              | 1,190,145             |  |
| Owners of Ho-Ping Power Company       \$ 1,434,388       \$ 1,776,653         Non-controlling interests of Ho-Ping Power Company       \$ 956,258       \$ 1,184,435         Section 1,184,435       \$ 2,390,646       \$ 2,961,088         Net cash inflow (outflow) from:       \$ 4,019,768       \$ 3,859,757         Investing activities       \$ (114,722)       \$ (84,128)         Financing activities       \$ (3,627,325)       \$ (7,190,080)         Net cash outflow       \$ 277,721       \$ (3,414,451)         Dividends paid to non-controlling interests of Ho-Ping Power  |  | \$ 2,390,778         | \$ 2,975,364          |  |
| Owners of Ho-Ping Power Company       \$ 1,434,388       \$ 1,776,653         Non-controlling interests of Ho-Ping Power Company       \$ 956,258       \$ 1,184,435         Section 1,184,435       \$ 2,390,646       \$ 2,961,088         Net cash inflow (outflow) from:       \$ 4,019,768       \$ 3,859,757         Investing activities       \$ (114,722)       \$ (84,128)         Financing activities       \$ (3,627,325)       \$ (7,190,080)         Net cash outflow       \$ 277,721       \$ (3,414,451)         Dividends paid to non-controlling interests of Ho-Ping Power  | Total comprehensive income attributable to:                  |                      |                       |  |
| Non-controlling interests of Ho-Ping Power Company         956,258         1,184,435           \$ 2,390,646         \$ 2,961,088           Net cash inflow (outflow) from:         \$ 4,019,768         \$ 3,859,757           Investing activities         (114,722)         (84,128)           Financing activities         (3,627,325)         (7,190,080)           Net cash outflow         \$ 277,721         \$ (3,414,451)           Dividends paid to non-controlling interests of Ho-Ping Power  |  | \$ 1,434,388         | \$ 1.776.653          |  |
| Section 2,390,646         \$ 2,390,646         \$ 2,961,088           Net cash inflow (outflow) from:         \$ 4,019,768         \$ 3,859,757           Investing activities         (114,722)         (84,128)           Financing activities         (3,627,325)         (7,190,080)           Net cash outflow         \$ 277,721         \$ (3,414,451)           Dividends paid to non-controlling interests of Ho-Ping Power   |  |                      |                       |  |
| Net cash inflow (outflow) from:  Operating activities Investing activities Financing activities  Net cash outflow  Net cash outflow  Dividends paid to non-controlling interests of Ho-Ping Power  Substituting 4,019,768  \$ 4,019,768 \$ 3,859,757  (84,128) (7,190,080)  \$ 277,721 \$ (3,414,451)  | - · · · · · · · · · · · · · · · · · · ·                      |                      |                       |  |
| Operating activities \$ 4,019,768 \$ 3,859,757   Investing activities $(114,722)$ $(84,128)$ Financing activities $(3,627,325)$ $(7,190,080)$ Net cash outflow \$ 277,721 \$ $(3,414,451)$ Dividends paid to non-controlling interests of Ho-Ping Power  |  | <u>\$ 2,390,646</u>  | \$ 2,961,088          |  |
| Operating activities \$ 4,019,768 \$ 3,859,757   Investing activities $(114,722)$ $(84,128)$ Financing activities $(3,627,325)$ $(7,190,080)$ Net cash outflow \$ 277,721 \$ $(3,414,451)$ Dividends paid to non-controlling interests of Ho-Ping Power  | Net cash inflow (outflow) from:                              |                      |                       |  |
| Investing activities $(114,722)$ $(84,128)$ Financing activities $(3,627,325)$ $(7,190,080)$ Net cash outflow $$277,721$$ $$(3,414,451)$ Dividends paid to non-controlling interests of Ho-Ping Power  |  | \$ 4,019,768         | \$ 3,859,757          |  |
| Financing activities (3,627,325) (7,190,080)  Net cash outflow \$ 277,721 \$ (3,414,451)  Dividends paid to non-controlling interests of Ho-Ping Power   |  |                      |                       |  |
| Dividends paid to non-controlling interests of Ho-Ping Power   | e e e e e e e e e e e e e e e e e e e                        |                      |                       |  |
|  | Net cash outflow   | <u>\$ 277,721</u>    | <u>\$ (3,414,451)</u> |  |
|  | Dividends paid to non-controlling interests of Ho-Ping Power |                      |                       |  |
|  |  | \$ 2,000,000         | <u>\$ 1,999,461</u>   |  |

## 14. INVESTMENTS ACCOUNTED FOR BY USING THE EQUITY METHOD

|   | Decem                | iber 31             |
|---|----------------------|---------------------|
|   | 2018                 | 2017                |
| Investments in associates                                   | <u>\$ 46,247,974</u> | <u>\$ 7,940,701</u> |
|   | Decem                | iber 31             |
|   | 2018                 | 2017                |
| Material associates   |                      |                     |
| Dutch OYAK TCC Holdings B.V.                                | \$ 29,071,244        | \$ -                |
| International CSRC Investment Holdings Co., Ltd.            | 6,196,876            | Ψ<br>-              |
| Prosperity Conch Cement Company Limited                     | 4,744,772            | 3,612,349           |
| Individually immaterial associates                          | .,,                  | -,,- :>             |
| Yunnan Kungang & K. Wah Cement Construction Materials Co.,  |                      |                     |
| Ltd.  | 1,664,696            | 1,638,323           |
| CCC USA Corporation   | 1,625,444            | 694,072             |
| Baoshan Kungang & K. Wah Cement Construction Materials Co., |                      |                     |
| Ltd.  | 876,910              | 852,560             |
| ONYX Ta-Ho Environmental Services Co., Ltd.                 | 786,226              | 481,263             |
| E-ONE moli energy corp.                                     | 635,495              | -                   |
| Quon Hing Concrete Co., Ltd.                                | 283,508              | 288,911             |
| Hong Kong Concrete Co., Ltd.                                | 217,105              | 211,927             |
| Sichuan Taichang Building Material Group Company Limited    | 47,692               | -                   |
| Shih Hsin Storage & Transportation Co., Ltd.                | 46,369               | 63,018              |
| Chia Huan Tung Cement Corporation                           | 44,646               | 91,581              |
| Synpac Ltd.   | 6,991                | 6,697               |
|   | \$ 46,247,974        | \$ 7,940,701        |

#### a. Material associates

|  | Proportion of Ownership December 31 |       |
|--|-------------------------------------|-------|
|  |                                     |       |
|  | 2018                                | 2017  |
| Dutch OYAK TCC Holdings B.V.                     | 40.0%                               | -     |
| International CSRC Investment Holdings Co., Ltd. | 19.2%                               | 12.5% |
| Prosperity Conch Cement Company Limited          | 25.0%                               | 25.0% |

Refer to Tables 8 and 9 "Information on investees" and "Information on Investments in Mainland China" following the Notes to Consolidated Financial Statements for the nature of activities, principal place of business and country of incorporation of Prosperity Conch Cement Company Limited, Dutch OYAK TCC Holdings B.V. and International CSRC Investment Holdings Co., Ltd. The investment accounted for by using the equity method and the share of profit or loss and other comprehensive income of the investment for the years ended December 31, 2018 and 2017 were based on the associate's financial statements audited by the auditors for the years then ended.

Dutch OYAK TCC Holdings B.V., a joint ventured, by collaborating with Taiwan Cement Dutch and Ordu Yardimlasma Kurumu in November 2018, and the Group obtained 40% of interests of the joint venture investment in cash, and indirectly acquired cement investment projects in areas such as Turkey. Until December 31, 2018, the Group had not completed the calculation of the difference between the cost of the investment and the Group's share of the net fair value of Dutch OYAK TCC Holdings B.V.'s identifiable assets and liabilities.

# Summarized financial information in respect of significant associates were as follows:

# Dutch OYAK TCC Holdings B.V.

|  | December 31,<br>2018  |
|--|---|
| Current assets Non-current assets Current liabilities Non-current liabilities Non-controlling equity | \$ 36,023,187<br>22,681,613<br>(11,451,405)<br>(2,430,560)<br>(7,651,443) |
| Equity attributable to the Parent company  | <u>\$ 37,171,392</u>  |
| Proportion of the Group's ownership  | 40%   |
| Equity attributable to the Group Difference between cost of investment and net equity                | \$ 14,868,557<br>14,202,687   |
| Carrying amount  | <u>\$ 29,071,244</u>  |
|  | For the Year<br>Ended<br>December 31,<br>2018                             |
| Operating revenue  | <u>\$ 1,044,209</u>   |
| Net income for the year<br>Other comprehensive loss  | \$ (167,984)<br>42,924  |
| Total comprehensive loss for the year  | <u>\$ (125,060)</u>   |
| International CSRC Investment Holdings Co., Ltd.   |   |
|  | December 31,<br>2018  |
| Current assets Non-current assets Current liabilities Non-current liabilities Non-controlling equity | \$ 28,454,557<br>21,479,581<br>(11,095,422)<br>(6,583,390)<br>(2,664,235) |
| Equity attributable to the parent company  | \$ 29,591,091   |
| Proportion of the Group's ownership  | 19.2%   |
| Equity attributable to the Group<br>Goodwill   | \$ 5,679,016<br>517,860   |
| Carrying amount  | <u>\$ 6,196,876</u>   |

|   | For the Year<br>Ended<br>December 31,<br>2018 |
|---|---|
| Operating revenue                                   | <u>\$ 24,431,724</u>                          |
| Net income for the year<br>Other comprehensive loss | \$ 3,252,459<br>522,452                       |
| Total comprehensive income for the year             | <u>\$ 3,774,911</u>                           |

International CSRS Investment Holding Co., Ltd. possessing quoted prices of open market of Level 1 fair value is \$6,514,183 thousands.

# Prosperity Conch Cement Co., Ltd.

|   | December 31  |   |  |
|---|--|---|--|
|   | 2018   | 2017  |  |
| Current assets Non-current assets Current liabilities Non-current liabilities | \$ 15,319,759<br>7,160,972<br>(2,831,153)<br>(670,491) | \$ 9,563,819<br>7,220,948<br>(1,650,113)<br>(685,260) |  |
| Equity  | \$ 18,979,087  | \$ 14,449,394   |  |
| Proportion of the Group's ownership   | 25.0%  | 25.0%   |  |
| Carrying amount   | <u>\$ 4,744,772</u>                                    | \$ 3,612,349  |  |
|   | For the Year End                                       | led December 31<br>2017                               |  |
| Operating revenue   | \$ 14,013,862  | \$ 9,595,223  |  |
| Net income for the year<br>Other comprehensive loss                           | \$ 4,870,859<br>(341,168)                              | \$ 2,347,343<br>(313,252)                             |  |
| Total comprehensive income for the year                                       | <u>\$ 4,529,691</u>                                    | <u>\$ 2,034,091</u>                                   |  |

## b. Aggregate information of individually immaterial associates

|  | Proportion of Ownership |                   |
|--|-------------------------|-------------------|
|  | December 31             |                   |
|  | 2018                    | 2017              |
| Yunnan Kungang & K. Wah Cement Construction Materials Co., |                         |                   |
| Ltd.   | 30.0%                   | 30.0%             |
| CCC USA Corporation  | 33.3%                   | 33.3%             |
| BaoShen & K. Wah Cement Construction Materials Co., Ltd.   | 30.0%                   | 30.0%             |
| ONYX Ta-Ho Environmental Services Co., Ltd.                | 50.0%                   | 50.0%             |
| E-ONE Moli Energy Corporation                              | 29.9%                   | -                 |
| Quon Hing Concrete Co., Ltd.                               | 50.0%                   | 50.0%             |
| Hong Kong Concrete Co., Ltd.                               | 31.5%                   | 31.5%             |
| Sichuan Taichang Building Material Group Company Limited   | 30.0%                   | 30.0%             |
| Shih Hsin Storage & Transportation Co., Ltd.               | 18.9%                   | 18.9%             |
| Chia Huan Tung Cement Corporation                          | 33.8%                   | 33.8%             |
| Synpac Ltd.  | 25.0%                   | 25.0%             |
|  | For the Year End        | ded December 31   |
|  | 2018                    | 2017              |
| The Group's share of:                                      |                         |                   |
| Net income for the year                                    | \$ 1,043,729            | \$ 684,275        |
| Other comprehensive loss                                   | (195,809)               | (113,008)         |
| Total comprehensive income for the year                    | <u>\$ 847,920</u>       | <u>\$ 571,267</u> |

For the year ended December 31, 2018, the Group paid \$673,918 thousand and \$3,060,365 thousand to acquire shares of E-ONE Moli Energy Corporation and International CSRC Investment Holdings Co., Ltd., respectively, and increased the Group's percentage of ownership from 15.1% to 29.9% and 12.5% to 19.2%. With a significant impact on the investee, the original investments previously recognized as financial assets at FVTOCI were considered as disposed of and reclassified to investments accounted for by using the equity method.

For the year ended December 31, 2018, the Group paid \$802,438 thousand to acquire shares of CCC USA Corp.

The Group's percentage of ownership in Shih Hsin Storage & Transportation Co., Ltd. is less than 20%, but the Group has significant influence and accounts for the investment by using the equity method.

The investments accounted for by using the equity method and the share of profit or loss and other comprehensive income of those investments for the years ended December 31, 2018 and 2017 were based on the associates' audited financial statements for the same years then ended except Yunnan Kungang & K. Wah Cement Construction Materials Co., Ltd. and Baoshan Kungang & K. Wah Cement Construction Materials Co., Ltd. The Group considered that there would be no significant adjustments if such financial statements were to be audited.

## 15. PROPERTY, PLANT AND EQUIPMENT

|  | Land                                   | Buildings   | Machinery and<br>Equipment  | Miscellaneous<br>Equipment   | Property in Construction                                | Total   |
|--|--|---|---|--|---|---|
| Cost   |  |   |   |  |   |   |
| Balance at January 1, 2017<br>Additions<br>Disposals<br>Reclassification<br>Effects of exchange rate changes                   | \$ 20,678,952<br>(1,878)<br>(12,045)   | \$ 51,534,206<br>24,997<br>(360,272)<br>40,921<br>(652,488)               | \$ 99,393,155<br>164,285<br>(697,987)<br>178,064<br>(955,223)               | \$ 12,039,090<br>209,720<br>(239,931)<br>342,224<br>(208,547)      | \$ 4,589,547<br>538,431<br>(695,316)<br>(30,049)        | \$ 188,234,950<br>937,433<br>(1,300,068)<br>(146,152)<br>(1,846,307)        |
| Balance at December 31, 2017   | \$ 20,665,029                          | \$ 50,587,364   | \$ 98,082,294   | <u>\$ 12,142,556</u>   | <u>\$ 4,402,613</u>                                     | <u>\$ 185,879,856</u>   |
| Accumulated depreciation and impairment  |  |   |   |  |   |   |
| Balance at January 1, 2017 Disposals Depreciation expenses Impairment losses Reclassification Effects of exchange rate changes | \$ 274,188                             | \$ 14,666,095<br>(141,035)<br>1,395,261<br>5,922<br>(23)<br>(97,095)      | \$ 61,394,024<br>(534,607)<br>4,083,937<br>32,903<br>(208,315)<br>(291,847) | \$ 10,068,911<br>(191,258)<br>576,949<br>-<br>208,338<br>(155,560) | \$ 31,966<br>-<br>-<br>55,797<br>-<br>-<br>-<br>(4,099) | \$ 86,435,184<br>(866,900)<br>6,056,147<br>94,622<br>(548,601)              |
| Balance at December 31, 2017   | <u>\$ 274,188</u>                      | \$ 15,829,125   | \$ 64,476,095   | <u>\$ 10,507,380</u>   | <u>\$ 83,664</u>  | <u>\$ 91,170,452</u>  |
| Carrying amounts at December 31, 2017  | \$ 20,390,841                          | \$ 34,758,239   | \$ 33,606,199   | <u>\$ 1,635,176</u>  | \$ 4,318,949  | \$ 94,709,404   |
| Cost   |  |   |   |  |   |   |
| Balance at January 1, 2018<br>Additions<br>Disposals<br>Reclassification<br>Effects of exchange rate changes                   | \$ 20,665,029<br>8,000<br>-<br>(7,780) | \$ 50,587,364<br>125,603<br>(397,580)<br>37,133<br>(735,344)              | \$ 98,082,294<br>381,605<br>(4,280,347)<br>547,220<br>(1,222,385)           | \$ 12,142,556<br>2,011,212<br>(1,483,511)<br>7,584<br>43,143       | \$ 4,402,613<br>1,516,506<br>-<br>(558,411)<br>(64,066) | \$ 185,879,856<br>4,042,926<br>(6,161,438)<br>25,746<br>(1,978,652)         |
| Balance at December 31, 2018   | \$ 20,665,249                          | <u>\$ 49,617,176</u>  | \$ 93,508,387   | \$ 12,720,984  | \$ 5,296,642  | <u>\$ 181,808,438</u>   |
| Accumulated depreciation and impairment  |  |   |   |  |   |   |
| Balance at January 1, 2018 Disposals Depreciation expenses Impairment losses Reclassification Effects of exchange rate changes | \$ 274,188                             | \$ 15,829,125<br>(247,758)<br>1,398,469<br>21,310<br>(4,837)<br>(210,058) | \$ 64,476,095<br>(4,058,526)<br>4,097,581<br>4,062<br>104,491<br>(688,181)  | \$ 10,507,380<br>(1,387,022)<br>610,592<br>(104,491)<br>10,488     | \$ 83,664<br>-<br>-<br>-<br>-<br>(1,959)                | \$ 91,170,452<br>(5,693,306)<br>6,106,642<br>25,372<br>(4,837)<br>(889,710) |
| Balance at December 31, 2018   | <u>\$ 274,188</u>                      | \$ 16,786,251   | <u>\$ 63,935,522</u>  | \$ 9,636,947   | <u>\$ 81,705</u>  | <u>\$ 90,714,613</u>  |
| Carrying amounts at December 31, 2018  | \$ 20,391,061                          | \$ 32,830,925   | \$ 29,572,865   | \$ 3,084,037   | \$ 5,214,937  | \$ 91,093,825   |

For the years ended December 31, 2018 and 2017, the Group recognized impairment losses of \$25,372 thousand and \$94,622 thousand, respectively, because these assets were idle or suffered from natural disasters without value in use.

The above items of property, plant and equipment are depreciated on a straight-line basis over the estimated useful lives of the assets:

## Buildings

| Main buildings          | 30-60 years |
|-------------------------|-------------|
| Main plants             | 16-50 years |
| Storage units           | 10-50 years |
| Others                  | 20-50 years |
| Machinery and equipment | 2-28 years  |
| Miscellaneous equipment | 2-20 years  |

Property, plant and equipment pledged as collateral for bank borrowings are set out in Note 32.

Acquisitions of property, plant and equipment included non-cash items and were reconciled as follows:

16.

|   |                     | For the Year Ended December 3 |                     |  |
|---|---------------------|-------------------------------|---------------------|--|
|   |                     | 2018                          | 2017                |  |
| Acquisitions of property, plant and equipment |                     | \$ 4,042,926                  | \$ 937,433          |  |
| Increase in prepayments for equipment         |                     | (275,719)                     | 265,089             |  |
| Decrease in payables for equipment            |                     | 550,712                       | 320,506             |  |
|   |                     | <u>\$ 4,317,919</u>           | <u>\$ 1,523,028</u> |  |
| . INVESTMENT PROPERTIES                       |                     |                               |                     |  |
|   | Land                | Buildings                     | Total               |  |
| Cost  |                     |                               |                     |  |
| Balance at January 1, 2017                    | \$ 6,430,507        | \$ 1,420,115                  | \$ 7,850,622        |  |
| Reclassification                              | 368,544             | (2.242)                       | 368,544             |  |
| Effects of exchange rate changes              | <del>_</del>        | (2,342)                       | (2,342)             |  |
| Balance at December 31, 2017                  | <u>\$ 6,799,051</u> | <u>\$ 1,417,773</u>           | \$ 8,216,824        |  |
| Accumulated depreciation and impairment       |                     |                               |                     |  |
| Balance at January 1, 2017                    | \$ 1,040,902        | \$ 736,664                    | \$ 1,777,566        |  |
| Depreciation expenses                         | -                   | 24,407                        | 24,407              |  |
| Reclassification                              | 40,685              | -<br>(754)                    | 40,685              |  |
| Effects of exchange rate changes              |                     | <u>(754</u> )                 | <u>(754</u> )       |  |
| Balance at December 31, 2017                  | <u>\$ 1,081,587</u> | <u>\$ 760,317</u>             | <u>\$ 1,841,904</u> |  |
| Carrying amounts at December 31, 2017         | <u>\$ 5,717,464</u> | <u>\$ 657,456</u>             | <u>\$ 6,374,920</u> |  |
| Cost  |                     |                               |                     |  |
| Balance at January 1, 2018                    | \$ 6,799,051        | \$ 1,417,773                  | \$ 8,216,824        |  |
| Reclassification                              | 7,780               | (64,284)                      | (64,284)<br>16,064  |  |
| Effects of exchange rate changes              |                     | 8,284<br>                     | 777<br>             |  |
| Balance at December 31, 2018                  | <u>\$ 6,806,831</u> | <u>\$ 1,362,550</u>           | \$ 8,169,381        |  |
| Accumulated depreciation and impairment       |                     |                               |                     |  |
| Balance at January 1, 2018                    | \$ 1,081,587        | \$ 760,317                    | \$ 1,841,904        |  |
| Depreciation expenses                         | -                   | 22,885                        | 22,885              |  |
| Reclassification                              | -                   | (47,642)<br>7,518             | (47,642)<br>7,518   |  |
| Effects of exchange rate changes              |                     | 256                           | 256                 |  |
| Balance at December 31, 2018                  | <u>\$ 1,081,587</u> | <u>\$ 743,334</u>             | <u>\$ 1,824,921</u> |  |
| Carrying amounts at December 31, 2018         | <u>\$ 5,725,244</u> | <u>\$ 619,216</u>             | <u>\$ 6,344,460</u> |  |

The buildings of the investment properties are depreciated over their estimated useful lives of 50 years, using the straight-line method.

The fair values of the investment properties were determined by independent qualified professional valuers or the Group's management using market prices of similar properties. As of December 31, 2018 and 2017, the fair values of investment properties were \$14,865,003 thousand and \$14,853,688 thousand, respectively.

The investment properties pledged as collateral for bank borrowings are set out in Note 32.

## 17. INTANGIBLE ASSETS

|   | Goodwill                              | Operational<br>Concession   | Mining Rights                                  | Others                                  | Total  |
|---|---------------------------------------|-----------------------------|--|---|--|
| Cost  |                                       |                             |  |   |  |
| Balance at January 1, 2017<br>Additions<br>Reclassification<br>Effects of exchange rate changes                       | \$ 12,191,933<br>-<br>-<br>(158,976)  | \$ 7,681,476                | \$ 2,859,051<br>280,878<br>118,411<br>(43,239) | \$ 1,203,719<br>10,333<br>-<br>(24,259) | \$ 23,936,179<br>291,211<br>118,411<br>(226,474) |
| Balance at December 31, 2017  | \$ 12,032,957                         | <u>\$ 7,681,476</u>         | \$ 3,215,101                                   | \$ 1,189,793                            | \$ 24,119,327                                    |
| Accumulated amortization and impairment   |                                       |                             |  |   |  |
| Balance at January 1, 2017<br>Amortization expenses<br>Impairment losses<br>Effects of exchange rate changes          | 156,000                               | \$ 755,555<br>151,111       | \$ 1,086,135<br>138,372<br>(14,446)            | \$ 919,207<br>93,756<br>-<br>(18,987)   | \$ 2,760,897<br>383,239<br>156,000<br>(33,433)   |
| Balance at December 31, 2017  | \$ 156,000                            | \$ 906,666                  | \$ 1,210,061                                   | \$ 993,976                              | \$ 3,266,703                                     |
| Carrying amounts at December 31, 2017   | <u>\$ 11,876,957</u>                  | \$ 6,774,810                | \$ 2,005,040                                   | <u>\$ 195,817</u>                       | \$ 20,852,624                                    |
| Cost  |                                       |                             |  |   |  |
| Balance at January 1, 2018<br>Acquired through business combinations<br>Additions<br>Effects of exchange rate changes | \$ 12,032,957<br>221,802<br>(266,414) | \$ 7,681,476<br>-<br>-<br>- | \$ 3,215,101<br>49,403<br>(65,405)             | \$ 1,189,793<br>5,482<br>(766)          | \$ 24,119,327<br>221,802<br>54,885<br>(332,585)  |
| Balance at December 31, 2018  | <u>\$ 11,988,345</u>                  | <u>\$ 7,681,476</u>         | \$ 3,199,099                                   | <u>\$ 1,194,509</u>                     | \$ 24,063,429                                    |
| Accumulated amortization and impairment   |                                       |                             |  |   |  |
| Balance at January 1, 2018<br>Amortization expenses<br>Impairment losses<br>Effects of exchange rate changes          | \$ 156,000                            | \$ 906,666<br>151,111       | \$ 1,210,061<br>168,235<br>5,660<br>(25,329)   | \$ 993,976<br>67,848<br>-<br>1,849      | \$ 3,266,703<br>387,194<br>5,660<br>(23,480)     |
| Balance at December 31, 2018  | <u>\$ 156,000</u>                     | \$ 1,057,777                | \$ 1,358,627                                   | \$ 1,063,673                            | \$ 3,636,077                                     |
| Carrying amounts at December 31, 2018   | \$ 11,832,345                         | \$ 6,623,699                | \$ 1,840,472                                   | <u>\$ 130,836</u>                       | \$ 20,427,352                                    |

The above items of intangible assets with finite useful lives are amortized on a straight-line basis over their useful lives as follows:

Operational concession50 yearsMining rights30-50 yearsOthers3-17 years

The Group used a discount rate of 9.3% to assess the recoverable amount of subsidiaries in 2017 and recognized impairment losses of \$156,000 thousand.

## 18. PREPAYMENTS FOR LEASES

|  | December 31             |                         |
|--|-------------------------|-------------------------|
|  | 2018                    | 2017                    |
| Current (included in prepayments)<br>Non-current | \$ 250,309<br>6,584,246 | \$ 217,031<br>6,833,745 |
|  | <u>\$ 6,834,555</u>     | <u>\$ 7,050,776</u>     |

The above prepayments for leases were mainly for land use rights in China.

## 19. BORROWINGS

## a. Short-term loans

|  | December 31              |                                     |
|--|--------------------------|-------------------------------------|
|  | 2018                     | 2017                                |
| Secured borrowings Bank loans  | \$ 100,000               | \$ 270,000                          |
| Unsecured borrowings Bank loans - unsecured Bank loans - letters of credit | 26,126,051<br>26,126,051 | 19,149,645<br>894,467<br>20,044,112 |
|  | <u>\$ 26,226,051</u>     | <u>\$ 20,314,112</u>                |
| Interest rate  | 0.80%-4.57%              | 0.81%-4.35%                         |

## b. Short-term bills payable

|   | December 31                  |                              |
|---|------------------------------|------------------------------|
|   | 2018                         | 2017                         |
| Commercial paper<br>Less: Unamortized discount on bills payable | \$ 7,410,000<br><u>7,786</u> | \$ 8,000,000<br><u>8,583</u> |
|   | <u>\$ 7,402,214</u>          | <u>\$ 7,991,417</u>          |
| Interest rate   | 0.90%-1.24%                  | 0.65%-2.04%                  |

## c. Long-term loans and long-term bills payable

|  | December 31          |                      |
|--|----------------------|----------------------|
|  | 2018                 | 2017                 |
| Secured borrowings                         | \$ 3,767,073         | \$ 5,101,655         |
| Unsecured borrowings                       | 22,788,845           | 52,303,555           |
| •  | 26,555,918           | 57,405,210           |
| Long-term bills payable                    | 22,500,000           | -                    |
| Less: Discount on long-term bills payables | 23,120               |                      |
|  | 22,476,880           | <u>-</u>             |
|  | 49,032,798           | 57,405,210           |
| Less: Current portions                     | 1,923,945            | 13,910,242           |
|  | <u>\$ 47,108,853</u> | <u>\$ 43,494,968</u> |
| Interest rate - Long-term bank loans       | 1.29%-3.99%          | 1.29%-3.40%          |
| Interest rate - long-term bills payable    | 1.25%-1.31%          | -                    |

Long-term loans consist of unsecured borrowings, secured borrowings and earmarked loans. The principals of long-term unsecured and secured borrowings are due in September 2025, and the interests are paid monthly. The principals of earmarked loans are due in December 2025, and the interests are paid monthly or quarterly.

The long-term bills payable is a commercial promissory note signed in 2018 with the banking group for a five-year period, which will be repaid at the expiration of the contract.

The Group didn't violate financial limited terms of long-term loans and long-term bills payable for the year ended of 2018.

## 20. BONDS PAYABLE

|                                      | December 31,<br>2018 |
|--------------------------------------|----------------------|
| Domestic unsecured bonds             | \$ 12,000,000        |
| Less: Discount on bond payable       | 23,156               |
|                                      | 11,976,844           |
| Overseas unsecured convertible bonds | 12,663,477           |
| Less: Discount on bond payable       | 1,862,628            |
|                                      | 10,800,849           |
|                                      | \$ 22,777,693        |

## a. Domestic unsecured bonds

Domestic unsecured bonds were issued on June 21, 2018, with a period of 15 years which will mature on June 21, 2033. The bonds total amount is \$12,000,000 thousand and has a coupon rate of 1.7%, with bullet repayment and interest paid annually.

#### b. Overseas unsecured convertible bonds

In June 2018, the Corporation's board of directors resolved to issue overseas unsecured convertible bonds for the first time. This proposal was approved and became effective under the letter issued by the Financial Supervisory Commission ("FSC") dated July 25, 2018 (Ref. No. Jin-Guan-Zheng-Fa-Zi 10703258532). The bonds whose durations are 5 years were listed on the Singapore Stock Exchange on December 10, 2018. This zero-coupon overseas convertible bonds have a face value of US\$400,000 thousand.

Bondholders may request the Corporation to convert the bonds into the Corporation's ordinary shares at NT\$41 per share and at the fixed exchange rate of US\$1.00 to NT\$30.878 divided by conversion price per share on conversion date within the period from the date following the expiry of three months of the issuance date to 10 days prior to maturity.

The convertible bonds contain both liability and equity components. The equity component was presented in equity under the heading of capital surplus - options. The effective interest rate of the liability component was 3.27% per annum on initial recognition.

|   | December 31,<br>2018 |
|---|----------------------|
| Proceeds from issuance (less transaction costs of \$103,353 thousand)   | \$ 12,247,847        |
| Redemption of option derivatives (accounting for financial liabilities measured at FVTPL) and transaction costs | (159,222)            |
| Equity component (less transaction costs allocated to the equity component of \$11,038 thousand)                | (1,308,070)          |
| Liability component at the date of issue (less transaction costs allocated to the                               |                      |
| liability component of \$90,971 thousand)   | 10,780,555           |
| Interest charged at an effective interest rate of 3.27%   | 20,294               |
| Liability component at December 31, 2018  | \$ 10,800,849        |

#### 21. OTHER PAYABLES

|                              | December 31   |              |
|------------------------------|---------------|--------------|
|                              | 2018          | 2017         |
| Salaries and bonuses payable | \$ 2,824,501  | \$ 1,438,523 |
| Taxes payable                | 2,555,872     | 1,133,230    |
| Deposits and retention money | 1,178,230     | 728,009      |
| Freight payables             | 485,067       | 226,334      |
| Payables for equipment       | 478,370       | 1,029,027    |
| Payables for electricity     | 382,476       | 289,016      |
| Interest payable             | 287,911       | -            |
| Fines payable                | 132,000       | 264,000      |
| Others                       | 3,358,743     | 3,731,269    |
|                              | \$ 11,683,170 | \$ 8,839,408 |

#### 22. RETIREMENT BENEFIT PLANS

### a. Defined contribution plans

The Corporation and its subsidiaries in the Republic of China adopted a pension plan under the Labor Pension Act (LPA), which is a state-managed defined contribution plan. Under the LPA, an entity makes monthly contributions to employees' individual pension accounts at 6% of monthly salaries and wages.

The employees of the Corporation's subsidiaries in China are members of a state-managed retirement benefit plan operated by the government of China. These subsidiaries are required to contribute a specified percentage of payroll costs to the retirement benefit scheme to fund the benefits. The only obligation of the Group with respect to the retirement benefit plan is to make the specified contributions.

#### b. Defined benefit plan

The defined benefit plan adopted by the Corporation and its subsidiaries in the Republic of China, which is in accordance with the Labor Standards Law, is operated by the government. Pension benefits are calculated on the basis of the length of service and average monthly salaries of the 6 months before retirement. The Group contributes amounts equal to a specified percentage of total monthly salaries and wages to a pension fund administered by the pension fund monitoring committee. Pension contributions are deposited in the Bank of Taiwan in the committee's name. The pension fund is managed by the Bureau of Labor Funds, Ministry of Labor ("the Bureau"); the Group has no right to influence the investment policy and strategy.

The amounts included in the consolidated balance sheets in respect of the Group's defined benefit plan were as follows:

|  | December 31                 |                          |
|--|-----------------------------|--------------------------|
|  | 2018                        | 2017                     |
| Present value of defined benefit obligation<br>Fair value of plan assets | \$ (1,114,251)<br>1,903,384 | \$ (1,125,032)<br>       |
|  | <u>\$ 789,133</u>           | <u>\$ 685,940</u>        |
| Net defined benefit asset<br>Net defined benefit liability               | \$ 999,648<br>\$ 210,515    | \$ 897,637<br>\$ 211,697 |

Movements in net defined benefit asset were as follows:

|                               | Present Value<br>of Defined<br>Benefit<br>Obligation | Fair Value of<br>the Plan Assets | Net Defined<br>Benefit Asset |
|-------------------------------|--|----------------------------------|------------------------------|
| Balance at January 1, 2017    | \$ (1,229,261)                                       | \$ 1,872,548                     | \$ 643,287                   |
| Service costs                 |  |                                  |                              |
| Current service costs         | (13,375)   | -                                | (13,375)                     |
| Net interest income (expense) | (15,631)   | 23,819                           | 8,188                        |
| Recognized in profit or loss  | (29,006)   | 23,819                           | (5,187)                      |
|                               |  |                                  | (Continued)                  |

|  | Present Value<br>of Defined<br>Benefit<br>Obligation | Fair Value of<br>the Plan Assets | Net Defined<br>Benefit Asset |
|--|--|----------------------------------|------------------------------|
| Remeasurement                            |  |                                  |                              |
| Return on plan assets (excluding amounts |  |                                  |                              |
| included in net interest)                | \$ -   | \$ 56,824                        | \$ 56,824                    |
| Actuarial loss - changes in demographic  |  |                                  |                              |
| assumptions                              | (7,076)  | -                                | (7,076)                      |
| Actuarial loss - changes in financial    |  |                                  |                              |
| assumptions                              | (14,493)   | -                                | (14,493)                     |
| Actuarial loss - experience adjustments  | (23,022)   |                                  | (23,022)                     |
| Recognized in other comprehensive income |  |                                  |                              |
| (loss)                                   | (44,591)   | 56,824                           | 12,233                       |
| Contributions from the employer          | -  | 33,350                           | 33,350                       |
| Benefits paid                            | <u>177,826</u>                                       | <u>(175,569</u> )                | 2,257                        |
| Balance at December 31, 2017             | (1,125,032)  | <u>1,810,972</u>                 | <u>685,940</u>               |
| Service costs                            |  |                                  |                              |
| Current service costs                    | (10,418)   | -                                | (10,418)                     |
| Net interest income (expense)            | (12,730)   | 20,448                           | <u>7,718</u>                 |
| Recognized in profit or loss             | (23,148)   | 20,448                           | (2,700)                      |
| Remeasurement                            |  |                                  |                              |
| Return on plan assets (excluding amounts |  |                                  |                              |
| included in net interest)                | -  | 123,125                          | 123,125                      |
| Actuarial loss - changes in demographic  |  |                                  |                              |
| assumptions                              | (7,439)  | -                                | (7,439)                      |
| Actuarial loss - changes in financial    |  |                                  |                              |
| assumptions                              | (12,266)   | -                                | (12,266)                     |
| Actuarial loss - experience adjustments  | (10,134)   |                                  | (10,134)                     |
| Recognized in other comprehensive income |  |                                  |                              |
| (loss)                                   | (29,839)   | 123,125                          | 93,286                       |
| Contributions from the employer          | _  | 12,607                           | 12,607                       |
| Benefits paid                            | 63,768   | (63,768)                         | <u>-</u> _                   |
| Balance at December 31, 2018             | <u>\$ (1,114,251)</u>                                | \$ 1,903,384                     | \$ 789,133                   |
|  |  |                                  | (Concluded)                  |

Through the defined benefit plan under the Labor Standards Law, the Group is exposed to the following risks:

- 1) Investment risk: The plan assets are invested in domestic and foreign equity and debt securities, bank deposits, etc. The investment is conducted at the discretion of the Bureau or under the mandated management. However, in accordance with relevant regulations, the return generated by plan assets should not be below the interest rate for a 2-year time deposit with local banks.
- 2) Interest risk: A decrease in the government bond interest rate will increase the present value of the defined benefit obligation; however, this will be partially offset by an increase in the return on the plan's debt investments.
- 3) Salary risk: The present value of the defined benefit obligation is calculated by reference to the future salaries of plan participants. As such, an increase in the salaries of the plan participants will increase the present value of the defined benefit obligation.

The actuarial valuations of the present value of the defined benefit obligation were carried out by qualified actuaries. The significant assumptions used for the purposes of the actuarial valuations were as follows:

|  | December 31 |             |
|--|-------------|-------------|
|  | 2018        | 2017        |
| Discount rates                             | 0.88%-1.25% | 1.00%-1.63% |
| Long-term average rates of salary increase | 1.50%-2.25% | 1.50%-2.25% |

If possible reasonable change in each of the significant actuarial assumptions will occur and all other assumptions will remain constant, the present value of the defined benefit obligation would increase (decrease) as follows:

|                                   | December 31        |                     |
|-----------------------------------|--------------------|---------------------|
|                                   | 2018               | 2017                |
| Discount rates                    |                    |                     |
| 0.25% increase                    | \$ (24,189)        | \$ (25,385)         |
| 0.25% decrease                    | \$ 25,012          | \$ 26,281           |
| Expected rates of salary increase |                    |                     |
| 0.25% increase                    | <u>\$ 24,290</u>   | \$ 25,537           |
| 0.25% decrease                    | <u>\$ (23,614)</u> | <u>\$ (24,795</u> ) |

The sensitivity analysis presented above may not be representative of the actual changes in the present value of the defined benefit obligation as it is unlikely that the changes in assumptions would occur in isolation of one another as some of the assumptions may be correlated.

|  | December 31      |                  |  |
|--|------------------|------------------|--|
|  | 2018             | 2017             |  |
| The expected contributions to the plan for the next year | <u>\$ 13,121</u> | <u>\$ 15,290</u> |  |
| The average duration of the defined benefit obligation   | 7-14 years       | 7-15 years       |  |

## 23. EQUITY

## a. Ordinary shares

|  | December 31             |                                   |  |
|--|-------------------------|-----------------------------------|--|
|  | 2018                    | 2017                              |  |
| Number of shares authorized (in thousands) Shares authorized | 7,000,000<br>70,000,000 | <u>6,000,000</u><br>\$ 60,000,000 |  |
| Number of shares issued and fully paid (in thousands)        | 5,108,060               | 4,246,509                         |  |
| Shares issued  | <u>\$ 51,080,599</u>    | <u>\$ 42,465,090</u>              |  |

A holder of issued ordinary shares with par value of NT\$10 is entitled to the proportional rights to vote and to dividends. The authorized shares including ordinary shares and preference shares contain 60,000 thousand units retained for the exercise of employee share options.

According to the laws of Hong Kong and the Cayman Islands, the Corporation and its subsidiary, TCCI, contemplated privatizing TCCIH by a Scheme of Arrangement under the Companies Law of the Cayman Islands. On October 18, 2017 the Corporation's board of directors resolved to issue 554,333 thousand ordinary shares to acquire part of TCCIH's shares with a par value of \$10, which increased the share capital issued and fully paid to \$42,465,090 thousand. On November 6, 2017 the above transaction was approved by the FSC.

The Corporation's shareholders resolved to distribute share dividends of \$4,240,509 thousand in June 2018, which was approved by the FSC. The subscription base date was August 1, 2018 as determined by the board of directors.

The Corporation's board of directors resolved to issue ordinary shares in the form of global depositary shares for the purpose of investing in overseas subsidiaries and to repay borrowings. The transaction was approved by the FSC under letter No. 10703258531 which was issued on July 25, 2018. The Corporation issued 87,500 units at US\$6.27 per share on the Luxembourg Stock Exchange, which amounted to a total of US\$548,625 thousand in total in August 2018. One global depositary share represents 5 ordinary shares, and the total global depositary shares represent 437,500 thousand ordinary shares. All outstanding global depositary shares were converted into ordinary shares as of December 31, 2018.

#### b. Preference shares

In June 2018, the Corporation's board of directors resolved to cash increase capital by issuing preference shares for the second time, which was approved by the FSC under letter dated July 25, 2018 (Ref. No. Jin-Guan-Zheng-Fa-Zi 1070325853), and the record date of capital increase was determined as of December 13, 2018, expected to issue 200,000 thousand shares having a face value of \$10 per share at the issue price of NT\$50 per share, with 3.5% coupon per annum. (Based on a five-year term 0.9375% IRS interest rate + 2.5625% fixed interest rate). Five-year term IRS interest rate will be reset on the next business day of the expiry of the five-year period from the date of issue and every five years thereafter. The Corporation has full discretion on the dividend distribution of the second preference shares. If there is no surplus or insufficient surplus to pay the preference share dividends upon the close of current fiscal year, the Corporation's resolution to cancel the distribution of preference share dividends will not constitute an event of default or a termination event in a contract. Preference share dividends are non-accumulative, and dividends that are not distributed or distributed in excess are not accumulated in the future year with deferred annual repayment. There is no maturity of the Corporation's second preference shares, but the Corporation may recover whole or part of the second preference shares at the actual issue price from the day following the five-year period from the issue date. The preference shares may not be converted to ordinary shares, and the preference shareholders do not have the rights to require the Corporation to redeem the preference shares they hold.

#### c. Capital surplus

|   | December 31      |    |             |
|---|------------------|----|-------------|
|   | 2018             |    | 2017        |
| May be used to offset a deficit, distributed as cash dividends, or transferred to share capital (1) |                  |    |             |
| Issuance of shares  | \$<br>44,176,367 | \$ | 23,863,105  |
| Conversion of bonds   | 1,520,632        |    | 1,520,632   |
| Difference between consideration received/paid and the carrying                                     |                  |    |             |
| amount of subsidiaries' net assets during actual acquisitions                                       | 466,755          |    | -           |
| Treasury share transactions   | 203,725          |    | 194,598     |
| Donations   | 31,537           |    | 31,537      |
|   |                  |    | (Continued) |

|   | December 31 |            |    |                           |
|---|-------------|------------|----|---------------------------|
| 2018  |             | 2018       |    | 2017                      |
| May only be used to offset a deficit (2)                                    |             |            |    |                           |
| Changes in percentage of ownership interests in subsidiaries                | \$          | 116,238    | \$ | 116,238                   |
| Forfeited share options   |             | 10,695     |    | 10,315                    |
| Dividends distributed by subsidiaries not yet received by                   |             |            |    |                           |
| shareholders  |             | 2,161      |    | 2,120                     |
| May not be used for any purpose   |             |            |    |                           |
| Equity component of convertible bond  |             | 1,308,070  |    | -                         |
| Changes in interests in associates accounted for by using the equity method |             | 61         |    | 520                       |
|   | \$ 4        | 47,836,241 |    | 25,739,065<br>(Concluded) |

- 1) Such capital surplus may be used to offset a deficit; in addition, when the Corporation has no deficit, such capital surplus may be distributed as cash dividends or transferred to share capital (limited to a certain percentage of the Corporation's capital surplus and once a year).
- 2) Such capital surplus arises from the effect of changes in ownership interest in a subsidiary resulting from equity transactions, other than actual disposals or acquisitions, or from changes in capital surplus of subsidiaries accounted for by using the equity method.

## d. Retained earnings and dividend policy

Under the dividend policy as set forth in the amended Articles, where the Corporation made profit in a fiscal year, the profit shall be first utilized for paying taxes, offsetting losses of previous years, setting aside as a legal reserve 10% of the remaining profit, setting aside or reversing a special reserve in accordance with the laws and regulations, and then any remaining profit together with any undistributed retained earnings shall be used by the Corporation's board of directors as the basis for proposing a distribution plan, which should be resolved in the shareholders' general meeting for the distribution of dividends and bonuses to shareholders. For the policies on the distribution of employees' compensation and remuneration of directors after amendment, refer to "Employee benefits expense" in Note 24c.

In addition to the capital-intensive, mature and stable production and marketing of cement and cement-related products, the Corporation aggressively pursues diversification. For the development of diversified investments or other important capital budgeting plans, the Corporation decided that the payout ratio of cash dividend is to be at least 20% of the total dividends to be distributed to ordinary shareholders; the rest will be paid in share dividends.

Items referred to under Rule No. 1010012865, Rule No. 1010047490 and Rule No. 1030006415 issued by the FSC and the directive titled "Questions and Answers for Special Reserves Appropriated Following Adoption of IFRSs" should be appropriated to or reversed from a special reserve by the Corporation.

An appropriation of earnings to the legal reserve shall be made until the legal reserve equals the Corporation's share capital. The legal reserve may be used to offset deficits. If the Corporation has no deficit and the legal reserve has exceeded 25% of the Corporation's share capital, the excess may be transferred to capital or distributed in cash.

The appropriations of earnings for 2017 and 2016 approved in the shareholders' general meetings in June 2018 and 2017, respectively, were as follows:

|                 | Appropriatio | on of Earnings       |                | Per Share<br>T\$)    |
|-----------------|--------------|----------------------|----------------|----------------------|
|                 |              | ear Ended<br>iber 31 |                | ear Ended<br>iber 31 |
|                 | 2017         | 2016                 | 2017           | 2016                 |
| Legal reserve   | \$ 759,425   | \$ 635,845           |                |                      |
| Cash dividends  | 6,360,764    | 5,353,655            | <u>\$ 1.50</u> | <u>\$ 1.45</u>       |
| Share dividends | 4,240,509    | -                    | \$ 1.00        | \$ -                 |

The appropriation of earnings for 2018 had been proposed by the Corporation's board of directors on March 22, 2019. The appropriation and dividends per share were as follows:

|                                | Appropriation of Earnings | Dividends Per<br>Share (NT\$) |  |
|--------------------------------|---------------------------|-------------------------------|--|
| Legal reserve                  | \$ 2,118,082              |                               |  |
| Dividends on preference shares | 18,219                    | \$ 0.09                       |  |
| Cash dividends                 | 16,856,367                | \$ 3.30                       |  |
| Share dividends                | 3,575,593                 | \$ 0.70                       |  |

The appropriation of earnings for 2018 is subject to be approved by shareholder's general meeting in June 2019.

#### e. Special reserve

The Corporation appropriated to special reserve the amounts that were the same as the unrealized revaluation increment and cumulative translation adjustments transferred to retained earnings at the first-time adoption of IFRSs, which were \$10,454,422 thousand and \$2,709,369 thousand, respectively.

The special reserve appropriated at the first-time adoption of IFRSs relating to investment in properties other than land may be reversed according to the period of use. The special reserve relating to land may be reversed upon disposal or reclassification, and such special reserve of \$573 thousand and \$849 thousand was reversed for the years ended December 31, 2018 and 2017, respectively. The special reserve appropriated, due to currency translation adjustments for financial statements of foreign operations (including subsidiaries), shall be reversed based on the Corporation's disposal percentage, and all of the special reserve shall be reversed when the Corporation loses significant influence. There was no such reversal for the years ended December 31, 2018 and 2017.

## f. Other equity items

#### 1) Exchange differences on translating the financial statements of foreign operations

|   | For the Year Ended December 31 |                     |  |
|---|--------------------------------|---------------------|--|
|   | 2018                           | 2017                |  |
| Balance at January 1  | \$ (790,475)                   | \$ (2,233,617)      |  |
| Effect of changes in tax rate   | 1,861                          | -                   |  |
| Exchange differences on translating foreign operations  | (3,963,808)                    | 1,487,776           |  |
| Related income tax  | -                              | (1,861)             |  |
| Share of exchange differences of associates and joint ventures accounted for by using the equity method | (284,799)                      | (42,773)            |  |
| Balance at December 31  | \$ (5,037,221)                 | <u>\$ (790,475)</u> |  |

## 2) Unrealized gain (loss) on available-for-sale financial assets

| Balance at January 1, 2017  | \$ 11,200,323 |
|---|---------------|
| Unrealized gain arising on revaluation of available-for-sale financial assets     | 1,370,286     |
| Share of unrealized loss on revaluation of available-for-sale financial assets of |               |
| associates and joint ventures accounted for by using the equity method            | 7,344,405     |
| Balance at December 31, 2017 (IFRS 39)  | 19,915,014    |
| Adjustment on initial application of IFRS 9                                       | (19,915,014)  |
| Balance at December 31, 2018  | <u>\$</u> _   |

For the Year Ended

## 3) Unrealized gain (loss) on financial assets at FVTOCI

|  | December 31<br>2018 | ,        |
|--|---------------------|----------|
| Balance at January 1 per IAS 39  | \$                  | _        |
| Adjustment on initial application of IFRS 9                              | 24,158,871          | L        |
| Balance at January 1 per IFRS 9  | 24,158,871          | [        |
| Recognized during the period   |                     |          |
| Unrealized gain - equity instruments                                     | 1,409,941           | 1        |
| Share of associates accounted for by using the equity method             | (173,214            | 1)       |
| Cumulative unrealized loss of equity instruments transferred to retained |                     |          |
| earnings due to disposal   | (1,321,032          | 2)       |
| Other comprehensive income recognized in the period                      | (84,305             | 5)       |
| Balance at December 31   | \$ 24,074,566       | <u>5</u> |

## 4) Cash flow hedges

|   | For the Year Ended December 31 |          |  |  |
|---|--------------------------------|----------|--|--|
|   | 2018                           | 2017     |  |  |
| Balance at January 1 Share of cash flow hedges of subsidiaries accounted for by | \$ -                           | \$ 7,900 |  |  |
| using the equity method   | 1,109                          | (7,900)  |  |  |
| Balance at December 31  | <u>\$ 1,109</u>                | \$ -     |  |  |

## g. Non-controlling interests

|   | For the Year Ended December 31 |               |  |
|---|--------------------------------|---------------|--|
|   | 2018                           |               |  |
| Balance at January 1 per IAS 39             | \$ 16,299,012                  | \$ 40,628,620 |  |
| Adjustment on initial application of IFRS 9 | 16,365                         |               |  |
| Balance at January 1 per IFRS 9             | 16,315,377                     | 40,628,620    |  |
| Attributable to non-controlling interests:  |                                |               |  |
| Share of profit for the year                | 1,463,250                      | 2,728,553     |  |
| Effect of changes in tax rate               | 1,029                          | -             |  |
|   |                                | (Continued)   |  |

|   | For the Year Ended December 31 |            |           |                           |
|---|--------------------------------|------------|-----------|---------------------------|
|   |                                | 2018       |           | 2017                      |
| Exchange differences arising on translation of foreign        |                                |            |           |                           |
| operations  | \$                             | (9,681)    | \$        | (130,212)                 |
| Unrealized gain (loss) on available-for-sale financial assets |                                | -          |           | 98,221                    |
| Unrealized gain (loss) on financial assets at FVTOCI          |                                | 10,765     |           | -                         |
| Changes in cash flow hedges                                   |                                | -          |           | (5,267)                   |
| Share of other comprehensive loss of associates and joint     |                                |            |           |                           |
| ventures accounted for by using the equity method             |                                | -          |           | (149,478)                 |
| Changes in ownership interests of subsidiaries                |                                | 22         |           | 389                       |
| Cumulative loss reclassified to profit or loss on disposal of |                                |            |           |                           |
| available-for-sale financial assets                           |                                | -          |           | (22)                      |
| Remeasurement of defined benefit plan                         |                                | (3,147)    |           | (18,035)                  |
| Disposal or acquisitions of non-controlling interests in      |                                |            |           |                           |
| subsidiaries  |                                | 285,387    | (         | 25,960,152)               |
| Dividends paid by subsidiaries                                | (                              | 2,175,906) |           | (2,258,975)               |
| Changes in percentage ownership in subsidiaries               |                                | -          |           | 1,814,785                 |
| Others  |                                | (49,150)   |           | (449,415)                 |
| Balance at December 31  | <u>\$ 1</u>                    | 5,837,946  | <u>\$</u> | 16,299,012<br>(Concluded) |

#### h. Treasury shares

|   | Total<br>(In Thousands<br>of Shares) |
|---|--------------------------------------|
| Number of shares at January 1, 2018<br>Increase during the period<br>Transferred to employees | 6,000<br>(5,930)                     |
| Number of shares at December 31, 2018   | 70                                   |

In February 2018, the Corporation's board of directors resolved to buy back 6,000 thousand treasury shares, and its execution had been done in the same month. The average buy-back price per shares was \$36.36, which will be transferred to employees, the record date of employees subscripition was September 10, 2018, for the year ended December 31 of 2018. The Corporation transferred 5,930 shares to the employees at \$30.3 per share. The Corporation recognized compensation costs of \$45,448 thousand on the issuance date in 2018, recognized capital surplus-treasury share transaction of \$9,127 and reclassified share option to capital surplus- expired share option of \$380 thousand. Under the Securities Exchange Act, the Corporation shall neither pledge treasury shares nor exercise shareholder's rights on these shares, such as rights to dividends and to vote.

## 24. NET INCOME

Net income includes the following items:

## a. Depreciation and amortization

| For the Year Ended December 31                   |   |
|--|---|
| 2018   | 2017  |
| \$ 6,106,642<br>22,885<br>387,194                | \$ 6,056,147<br>24,407<br>383,239   |
| <u>\$ 6,516,721</u>                              | \$ 6,463,793  |
| \$ 5,800,458<br>326,120<br>2,949<br>\$ 6,129,527 | \$ 5,731,491<br>345,395<br>3,668<br>\$ 6,080,554  |
| \$ 335,904<br>51,290                             | \$ 332,084<br>51,155<br>\$ 383,239  |
|  | \$ 6,106,642<br>22,885<br>387,194<br>\$ 6,516,721<br>\$ 5,800,458<br>326,120<br>2,949<br>\$ 6,129,527<br>\$ 335,904 |

## b. Employee benefits expense

|   | For the Year Ended December 31        |                                |
|---|---------------------------------------|--------------------------------|
|   | 2018                                  | 2017                           |
| Retirement benefit plans  | <b>4</b> 271 226                      | h 271 662                      |
| Defined contribution plans Defined benefit plan   | \$ 371,336<br><u>2,700</u><br>374,036 | \$ 351,663<br>5,187<br>356,850 |
| Share-based payments Equity-settled   | 45,448                                | -                              |
| Other employee benefits   | 6,397,495                             | 4,751,784                      |
| Total of employee benefits expense  | <u>\$ 6,816,979</u>                   | \$ 5,108,634                   |
| An analysis of employee benefits expense by function<br>Operating costs<br>Operating expenses | \$ 4,903,918<br>1,913,061             | \$ 3,384,360<br>1,724,274      |
|   | \$ 6,816,979                          | \$ 5,108,634                   |

### c. Employee benefits expense

The Corporation accrued employees' compensation and remuneration of directors at the rates of 0.01%-3% and no higher than 1%, respectively, of net profit before income tax, employees' compensation, and remuneration of directors. The total amount of employees' compensation and remuneration of directors for the years ended December 31, 2018 and 2017, which was approved by the Corporation's board of directors in March 2019 and May 2018 as follows:

|                           | For the Year Ended December 31 |           |
|---------------------------|--------------------------------|-----------|
|                           | 2018                           | 2017      |
| Employees' compensation   | \$ 68,236                      | \$ 23,899 |
| Remuneration of directors | 215,088                        | 66,305    |

For the year ended December 31, 2018, if there is a change in the amounts after the annual consolidated financial statements are authorized for issue, the differences are recorded as a change in the accounting estimate.

There was no difference between the actual amounts of employees' compensation and remuneration of directors paid and the amounts recognized in the consolidated financial statements for the years ended December 31, 2017 and 2016.

Information on the employees' compensation and remuneration of directors resolved by the Corporation's board of directors will be available at the Market Observation Post System website of the Taiwan Stock Exchange.

#### d. Finance costs

|  | For the Year Ended December 31 |                                |
|--|--------------------------------|--------------------------------|
|  | 2018                           | 2017                           |
| Interest on bank borrowings<br>Other finance costs | \$ 2,321,698<br>138,604        | \$ 1,744,478<br><u>178,831</u> |
|  | \$ 2,460,302                   | \$ 1,923,309                   |

Information about capitalized interest was as follows:

|                                   | For the Year Ended December 31 |                  |
|-----------------------------------|--------------------------------|------------------|
|                                   | 2018                           | 2017             |
| Capitalization amount of interest | <u>\$ 9,633</u>                | <u>\$ 11,081</u> |
| Capitalization rate of interest   | 0.94%-1.79%                    | 0.62%-1.58%      |

#### e. Other income

|  | For the Year Ended December 31 |            |
|--|--------------------------------|------------|
|  | 2018                           | 2017       |
| Government grants                        | \$ 142,075                     | \$ 117,263 |
| Service fees of endorsement and warranty | 77,952                         | 81,653     |
| Others                                   | <u>664,621</u>                 | 429,557    |
|  | <u>\$ 884,648</u>              | \$ 628,473 |

## f. Other expenses

|  | For the Year Ended December 31 |               |               |
|--|--------------------------------|---------------|---------------|
|  | 20                             | 18            | 2017          |
| Net loss of financial asset or financial liability at fair value |                                |               |               |
| through profit   | \$                             | -             | \$<br>103,169 |
| Loss on disposal of property, plant and equipment                | 7                              | 8,190         | 196,894       |
| Loss on work stoppages   | 14                             | 7,687         | 142,854       |
| Others   | 2                              | <u>6,718</u>  | <br>112,273   |
|  | \$ 25                          | 2,59 <u>5</u> | \$<br>555,190 |

## 25. INCOME TAX

a. Major components of tax expense recognized in profit or loss

|   | For the Year Ended December 31 |              |  |
|---|--------------------------------|--------------|--|
|   | 2018                           | 2017         |  |
| Current tax                                     |                                |              |  |
| In respect of the current year                  | \$ 6,773,548                   | \$ 3,066,731 |  |
| Income tax on unappropriated earnings           | 3,158                          | 74,323       |  |
| Adjustments for prior years                     | 24,101                         | 35,544       |  |
|   | 6,800,807                      | 3,176,598    |  |
| Deferred tax                                    |                                |              |  |
| In respect of the current period                | 467,272                        | 325,261      |  |
| Effect of change of tax rate                    | 632,271                        | -            |  |
|   | 1,099,543                      | 325,261      |  |
| Income tax expense recognized in profit or loss | \$ 7,900,350                   | \$ 3,501,859 |  |

A reconciliation of income before income tax and income tax expense recognized in profit or loss was as follows:

|  | For the Year Ended December 31 |                      |  |
|--|--------------------------------|----------------------|--|
|  | 2018                           | 2017                 |  |
| Income before tax 20% and 17% are respectively in 2018 and 2017  | \$ 30,544,421                  | <u>\$ 13,824,659</u> |  |
| Income tax expense at the statutory rate                         | \$ 6,108,884                   | \$ 2,350,192         |  |
| Non-deductible expenses in determining taxable income            | 704,875                        | 506,345              |  |
| Tax-exempt income  | (881,159)                      | (630,218)            |  |
| Difference payable of basic tax                                  | 53,440                         | -                    |  |
| Unrecognized loss carryforwards and deductible temporary         |                                |                      |  |
| differences  | 391,076                        | 476,524              |  |
| Effect of changes of tax rate                                    | 632,271                        | -                    |  |
| Loss carryforwards utilized in the current year                  | (535,427)                      | (75,624)             |  |
| Effects of different tax rate of subsidiaries operating in other |                                |                      |  |
| jurisdictions  | 1,071,806                      | 634,296              |  |
| Income tax on unappropriated earnings                            | 3,158                          | 74,323               |  |
| Adjustments for prior years                                      | 24,101                         | 35,128               |  |
| Others   | 327,325                        | 130,893              |  |
| Income tax expense recognized in profit or loss                  | \$ 7,900,350                   | \$ 3,501,859         |  |

The applicable corporate income tax rate used by the group entities in the ROC is 17%, In February 2018, it was announced by the President of the ROC that the Income Tax Act in the ROC was amended and, starting from 2018, the corporate income tax rate will be adjusted from 17% to 20%. In addition, the rate of the corporate surtax applicable to the 2018 unappropriated earnings will be reduced from 10% to 5%; while the applicable tax rate used by subsidiaries in China is 25%. Tax rates used by other group entities operating in other jurisdictions are based on the tax laws in those jurisdictions.

As the status of the 2019 appropriation of earnings is uncertain, the potential income tax consequences of the 2018 unappropriated earnings are not reliably determinable.

#### b. Income tax recognized in other comprehensive income

|   | For the Year Ended December 31 |                          |  |
|---|--------------------------------|--------------------------|--|
|   | 2018                           | 2017                     |  |
| Deferred tax                                    |                                |                          |  |
| Effect of changes of tax rate                   | \$ 7.761                       | \$ -                     |  |
| Deferred tax in the current year                | Ψ 7,701                        | Ψ                        |  |
| Remeasurement on defined benefit plan           | 18,658                         | 2,080                    |  |
| Difference of translation of foreign operations | (2,189)                        | 1,861                    |  |
|   | \$ 24,230                      | \$ 3 941                 |  |
|   | <u>Ψ 24,230</u>                | $\frac{\psi  J, J+1}{2}$ |  |

#### c. Current tax assets and liabilities

|  | December 31         |                     |  |
|--|---------------------|---------------------|--|
|  | 2018                | 2017                |  |
| Current tax assets Tax refund receivable (included in other receivables) | <u>\$ 59,484</u>    | \$ 60,724           |  |
| Current tax liabilities Current income tax liabilities                   | <u>\$ 4,090,640</u> | <u>\$ 1,651,042</u> |  |

## d. Deferred income tax assets and liabilities

The movements of deferred income tax assets (included in other non-current assets) and deferred income tax liabilities were as follows:

## For the year ended December 31, 2018

|   | Open      | ing Balance                                       |           | ognized in<br>fit or Loss                             | Comp      | gnized in<br>Other<br>orehensive<br>ocome | (         | Others                                 | Clos            | ing Balance                                       |
|---|-----------|---|-----------|---|-----------|---|-----------|--|-----------------|---|
| Deferred income tax assets  |           |   |           |   |           |   |           |  |                 |   |
| Loss carryforwards<br>Allowance for impaired receivables<br>Defined benefit plan<br>Inventories<br>Others | \$        | 293,535<br>27,442<br>50,336<br>124,950<br>331,838 | \$        | (87,439)<br>(10,454)<br>(6,805)<br>(7,256)<br>(3,919) | \$        | 3,569                                     | \$        | 72<br>(210)<br>-<br>(1,343)<br>(5,704) | \$              | 206,168<br>16,778<br>47,100<br>116,351<br>322,215 |
|   | <u>\$</u> | 828,101   | <u>\$</u> | (115,873)   | <u>\$</u> | 3,569                                     | <u>\$</u> | (7,185)                                | <u>\$</u><br>(C | 708,612<br>ontinued)                              |

|                                 | Ope       | ning Balance | ognized in<br>fit or Loss | Com | ognized in<br>Other<br>prehensive<br>ncome | 1  | Others   | Clos | sing Balance |
|---------------------------------|-----------|--------------|---------------------------|-----|--|----|----------|------|--------------|
| Deferred income tax liabilities |           |              |                           |     |  |    |          |      |              |
| Land value increment tax        | \$        | 5,092,973    | \$<br>-                   | \$  | -  | \$ | -        | \$   | 5,092,973    |
| Finance leases                  |           | 2,774,966    | 533,732                   |     | -  |    | -        |      | 3,308,698    |
| Property, plant and equipment   |           | 1,284,634    | 42,363                    |     | -  |    | (21,452) |      | 1,305,545    |
| Retained earnings from foreign  |           |              |                           |     |  |    |          |      |              |
| subsidiaries                    |           | 1,103,010    | 395,651                   |     | (1,861)                                    |    | (61,639) |      | 1,435,161    |
| Defined benefit plan            |           | 133,435      | 13,825                    |     | 29,660                                     |    | -        |      | 176,920      |
| Others                          |           | 8,758        | <br>(1,901)               |     |  |    |          |      | 6,857        |
|                                 | <u>\$</u> | 10,397,776   | \$<br>983,670             | \$  | 27,799                                     | \$ | (83,091) | _    | 11,326,154   |
|                                 |           |              |                           |     |  |    |          | (C   | oncluded)    |

# For the year ended December 31, 2017

|   | Opening Balance   | Recognized in<br>Profit or Loss                                      | Recognized in<br>Other<br>Comprehensive<br>Income | Others   | Closing Balance   |
|---|---|--|---|--|---|
| Deferred income tax assets  |   |  |   |  |   |
| Loss carryforwards<br>Allowance for impaired receivables<br>Defined benefit plan<br>Inventories<br>Others                                     | \$ 514,273<br>17,524<br>33,402<br>128,389<br>221,914<br>\$ 915,502      | \$ (213,146)<br>10,045<br>7,042<br>(2,312)<br>110,906<br>\$ (87,465) | \$ -<br>9,892<br>-<br>-<br>-<br>\$ 9,892          | \$ (7,592)<br>(127)<br>-<br>(1,127)<br>(982)<br>\$ (9,828) | \$ 293,535<br>27,442<br>50,336<br>124,950<br>331,838<br>\$ 828,101      |
| Deferred income tax liabilities   |   |  |   |  |   |
| Land value increment tax Finance leases Property, plant and equipment Retained earnings from foreign subsidiaries Defined benefit plan Others | \$ 5,092,973<br>2,659,389<br>1,325,741<br>1,006,952<br>120,775<br>8,137 | \$ -<br>115,577<br>(25,293)<br>146,205<br>688<br>619                 | \$ -<br>-<br>1,861<br>11,972                      | \$ -<br>(15,814)<br>(52,008)<br>-<br>2                     | \$ 5,092,973<br>2,774,966<br>1,284,634<br>1,103,010<br>133,435<br>8,758 |
|   | \$ 10,213,967   | <u>\$ 237,796</u>  | \$ 13,833   | <u>\$ (67,820)</u>   | \$ 10,397,776   |

# e. Unrecognized deferred income tax assets in respect of loss carryforwards

|                    | December 31   |               |  |  |
|--------------------|---------------|---------------|--|--|
|                    | 2018          | 2017          |  |  |
| Loss carryforwards |               |               |  |  |
| Expire in 2018     | \$ -          | \$ 751,114    |  |  |
| Expire in 2019     | 1,281,571     | 1,274,833     |  |  |
| Expire in 2020     | 3,886,665     | 3,519,743     |  |  |
| Expire in 2021     | 1,263,699     | 1,273,222     |  |  |
| Expire in 2022     | 747,924       | 1,171,098     |  |  |
| Expire in 2023     | 1,017,505     | 792,691       |  |  |
| Expire in 2024     | 539,929       | 566,145       |  |  |
| Expire in 2025     | 1,398,105     | 1,047,548     |  |  |
| Expire in 2026     | 71,204        | 71,204        |  |  |
| Expire in 2027     | 442,235       | 411,744       |  |  |
| Expire in 2028     | 10,004        | <del>_</del>  |  |  |
|                    | \$ 10,658,841 | \$ 10,879,342 |  |  |

## f. Unused loss carryforwards information

Loss carryforwards as of December 31, 2018 were comprised of:

| Un | nused Amount | Expiry Year |
|----|--------------|-------------|
| \$ | 1,281,571    | 2019        |
|    | 3,886,665    | 2020        |
|    | 1,263,699    | 2021        |
|    | 747,924      | 2022        |
|    | 1,017,505    | 2023        |
|    | 539,929      | 2024        |
|    | 2,023,187    | 2025        |
|    | 463,954      | 2026        |
|    | 412,513      | 2027        |
|    | 23,015       | 2028        |
| \$ | 11,659,962   |             |

## g. Unrecognized deferred income tax liabilities in respect of investments

As of December 31, 2018 and 2017, the taxable temporary differences in respect of investments in subsidiaries and associates for which no deferred income tax liabilities have been recognized were \$85,257,481 thousand and \$60,043,392 thousand, respectively.

#### h. Income tax assessments

The information of income tax assessments for the Group is as follows:

| Year | Name of Group Entity   |
|------|--|
| 2017 | Ta-Ho Onyx RSEA Environment Co., Ltd., Ho Swen Construction Material Co., Ltd., TCC Investment Corporation, Ta-Ho Taitung Environment Co., Ltd, Union Cement Traders Inc., TCC Information Systems Corporation, Taiwan Cement Engineering Corporation  |
| 2016 | The Corporation, TCC Chemical Corporation, Taiwan Prosperity Chemical Corporation, Tung Chen Mineral Corporation, Jin Chang Minerals Corporation, Hoping Industrial Port Corporation, HPC Power Services Corporation, E.G.C. Cement Corporation, Ho-Ping Power Company, Feng Sheng Enterprise Company, TCC Green Energy Corporation, Kuan-Ho Refractories Industry Corporation, Taiwan Transport & Storage Corporation, Ta-Ho Maritime Corporation |

## 26. EARNINGS PER SHARE

**Unit: NT\$ Per Share** 

|  | For the Year End   | ded December 31    |
|--|--------------------|--------------------|
|  | 2018               | 2017               |
| Basic earnings per share<br>Diluted earnings per share | \$ 4.37<br>\$ 4.37 | \$ 1.82<br>\$ 1.82 |

The weighted average number of shares outstanding used in the earnings per share computation was adjusted retrospectively for the issuance of bonus shares on August 1, 2018. The basic and diluted earnings per share adjusted retrospectively for the year ended December 31, 2017 were as follows:

**Unit: NT\$ Per Share** 

|   | Before<br>Retrospective<br>Adjustment | After<br>Retrospective<br>Adjustment |
|---|---------------------------------------|--------------------------------------|
| Basic earnings per share Diluted earnings per share | \$ 2.03<br>\$ 2.03                    | \$ 1.82<br>\$ 1.82                   |

The earnings and weighted average number of ordinary shares outstanding in the computation of earnings per share were as follows:

|   | For the Year Ended December 31 |              |  |
|---|--------------------------------|--------------|--|
|   | 2018                           | 2017         |  |
| Profit for the year attributable to owners of the Corporation   | \$ 21,180,821                  | \$ 7,594,247 |  |
| Number of shares (in thousands)   |                                |              |  |
| Weighted average number of ordinary shares in computation of basic earnings per share Effect of potentially dilutive ordinary shares: | 4,849,335                      | 4,162,421    |  |
| Employees' compensation   | 2,129                          | 900          |  |
| Weighted average number of ordinary shares used in the computation of diluted earnings per share                                      | 4,851,464                      | 4,163,321    |  |

If the Corporation offered to settle compensation paid to employees in cash or shares, the Corporation assumed the entire amount of the compensation or bonus will be settled in shares, and the resulting potential shares were included in the weighted average number of shares outstanding used in the computation of diluted earnings per share, as the effect is dilutive. Such dilutive effect of the potential shares is included in the computation of diluted earnings per share until the number of shares to be distributed to employees is resolved in the following year.

## 27. EQUITY TRANSACTIONS WITH NON-CONTROLLING INTERESTS

For the year ended December 31, 2018, the Group acquired a portion of the shares of Ta-Ho Maritime Corporation and E.G.C. Cement Corporation, and increased its proportionate ownership interests from 92.3% to 94% and 95% to 100%. During the year ended December 31, 2018, the Group disposed of a portion of the shares of Taiwan Prosperity Chemical Corporation, and decreased its proportionate ownership interests from 52.5% to 42.5%.

## For the year ended December 31, 2018

| Investor   |  | ansport and orporation          | Taiwan Cement Corporation Taiwan       | TCC Investment Corporation Taiwan      |                   |
|--|--|---------------------------------|--|--|-------------------|
| Investee   | Ta-Ho<br>Maritime<br>Corporation         | E.G.C.<br>Cement<br>Corporation | Prosperity<br>Chemical<br>Corporation  | Prosperity Chemical Corporation        | Total             |
| Cash consideration (paid) received The proportionate share of subsidiaries' net assets' carrying amount  | \$ (53,278)                              | \$ (9,958)                      | \$ 787,369                             | \$ 1,170                               | \$ 725,303        |
| transferred from (to)<br>non-controlling interests   | 53,483                                   | 10,044                          | (321,659)                              | (416)                                  | (258,548)         |
| Differences arising from equity transactions   | <u>\$ 205</u>                            | <u>\$ 86</u>                    | <u>\$ 465,710</u>                      | <u>\$ 754</u>                          | <u>\$ 466,755</u> |
| Investor   | Taiwan Transport and Storage Corporation |                                 | Taiwan<br>Cement<br>Corporation        | TCC<br>Investment<br>Corporation       |                   |
| Investee   | Ta-Ho<br>Maritime<br>Corporation         | E.G.C.<br>Cement<br>Corporation | Taiwan Prosperity Chemical Corporation | Taiwan Prosperity Chemical Corporation | Total             |
| Line items adjusted for equity transactions  |  |                                 |  |  |                   |
| Capital surplus - difference<br>between the<br>consideration and the<br>carrying amount of<br>subsidiaries' net assets<br>during actual<br>acquisitions or disposals | <u>\$ 205</u>                            | <u>\$ 86</u>                    | <u>\$ 465,710</u>                      | <u>\$ 754</u>                          | <u>\$ 466,755</u> |

The above transactions were accounted for as equity transactions, since there was no change in the Group's control over these subsidiaries.

For the propose of streamlining its investment structure, the Group's board of directors approved the merger with Kuan-Ho Construction & Development Corporation and TCC Chemical Corporation with TCC Chemical Corporation as the surviving company on January 1, 2018. Since the merge is considered as a group reorganization, the carrying amount method is taken as the applicable accounting policy.

| Acquiren  | TCC Chemical                                   |
|---|--|
| Acquirer  Acquiree  | Corporation Kuan-Ho Construction & Development |
| Cash consideration paid The proportionate share of subsidiaries' net assets' carrying amount transferred from non-controlling interests | \$ (107,663)<br><u>49,150</u>                  |
| Differences arising from equity transactions  | <u>\$ (58,513)</u>                             |
| Line items adjusted for equity transactions   |  |
| Retained earnings   | <u>\$ (58,513)</u>                             |

#### 2017

According to the laws of Hong Kong and the Cayman Islands, the Corporation and its subsidiary, TCCI, contemplated privatizing TCCIH by a Scheme of Arrangement under the Companies Law of the Cayman Islands. On October 18, 2017, the Corporation's board of directors resolved to issue 554,333 thousand ordinary shares to acquire part of TCCIH's 1,319,841 thousand shares with a par value of \$10, for a consideration of \$18,970,661 thousand, excluding issuance costs, which increased the share capital issued and fully paid to \$42,465,090 thousand. On November 6, 2017, the above transaction was approved by the FSC. TCCI acquired the residual portion of the shares of TCCIH in cash, increasing its proportionate interest from 63.1% to 75.9%. In 2017, the Group disposed of a portion of its shares of Taiwan Prosperity Chemical Corporation, decreasing its proportionate interest from 52.8% to 52.5%.

The above transactions were accounted for as equity transactions, since there was no change in the Group's control over these subsidiaries.

| Investor   | TCCI           | Taiwan Cement Corporation | TCC Investment Corporation             |                |
|--|----------------|---------------------------|--|----------------|
| Investee   | ТССІН          | ТССІН                     | Taiwan Prosperity Chemical Corporation | Total          |
| Cash consideration (paid) received<br>Issuance of new shares for the<br>acquisition of shares in           | \$ (7,006,408) | \$ -                      | \$ 16,917                              | \$ (6,989,491) |
| subsidiaries The proportionate share of the subsidiary's net assets' carrying amount transferred from (to) | -              | (18,970,661)              | -                                      | (18,970,661)   |
| non-controlling interests  | 6,143,410      | 18,010,172                | (8,215)                                | 24,145,367     |
| Differences arising from equity transaction  | \$ (862,998)   | \$ (960,489)              | <u>\$ 8,702</u>                        | \$ (1,814,785) |

| Investor  | TCCI                 | Taiwan<br>Cement<br>Corporation | TCC<br>Investment<br>Corporation       |                             |
|---|----------------------|---------------------------------|--|-----------------------------|
| Investee  | тссін                | тссін                           | Taiwan Prosperity Chemical Corporation | Total                       |
| Line items adjusted for equity <u>Transactions</u>  |                      |                                 |  |                             |
| Capital surplus - difference<br>between consideration received<br>or paid and the carrying amount<br>of the subsidiaries' net assets<br>during actual disposal or | ф. (0 <b>/2</b> 000) | Φ (270.251)                     | ф. 0.70 <b>2</b>                       | Φ (1.224.54 <u>7</u> )      |
| acquisition<br>Retained earnings  | \$ (862,998)         | \$ (370,251)<br>(590,238)       | \$ 8,702                               | \$ (1,224,547)<br>(590,238) |
|   | <u>\$ (862,998)</u>  | \$ (960,489)                    | \$ 8,702                               | <u>\$ (1,814,785</u> )      |
| Cash consideration<br>Cost of privatization and issue of ne   | w shares             |                                 |  | \$ (6,989,491)<br>(228,195) |
|   |                      |                                 |  | \$ (7,217,686)              |

## 28. CASH FLOWS INFORMATION

Changes in liabilities arising from financing activities:

## For the year ended December 31, 2018

|  | Balance              | Cash Flows                   | <b>Exchange Rate</b>    | Balance            |
|--|----------------------|------------------------------|-------------------------|--------------------|
| Short-term borrowings<br>Long-term borrowings (including                     | \$ 20,314,112        | \$ 5,760,814                 | \$ 151,125              | \$ 26,226,051      |
| expired within a year)   | 57,405,210           | (32,291,788)                 | 1,442,486               | 26,555,918         |
|  | <u>\$ 77,719,322</u> | <u>\$ (26,530,964)</u>       | \$ 1,593,611            | \$ 52,781,969      |
| For the year ended December 31, 20   | <u>17</u>            |                              |                         |                    |
|  |                      |                              |                         |                    |
|  | Opening<br>Balance   | Cash Flows                   | Effect of Exchange Rate | Closing<br>Balance |
| Short-term borrowings Long-term borrowings (including                        |                      | <b>Cash Flows</b> \$ 374,531 |                         | U                  |
| Short-term borrowings Long-term borrowings (including expired within a year) | Balance              |                              | <b>Exchange Rate</b>    | Balance            |

Effect of

Closing

**Opening** 

## 29. CAPITAL MANAGEMENT

The Group needs to maintain sufficient capital to fulfill the Group's requirements of business expansion and construction. Therefore, the capital management of the Group shall focus on a comprehensive operational plan to ensure sound profitability and financial structure so as to fulfill the mid- and long-term demand of working capital, capital expenditures, debts repayment and dividend distributions.

## **30. FINANCIAL INSTRUMENTS**

a. Fair value of financial instruments not measured at fair value

## December 31, 2018

|   | Carrying             | Fair Value |           |                      |                      |  |
|---|----------------------|------------|-----------|----------------------|----------------------|--|
|   | Amount               | Level 1    | Level 2   | Level 3              | Total                |  |
| Financial liabilities   |                      |            |           |                      |                      |  |
| Financial liabilities at amortized cost Convertible bonds payable | <u>\$ 10,800,849</u> | <u>\$</u>  | <u>\$</u> | <u>\$ 10,904,874</u> | <u>\$ 10,904,874</u> |  |

- b. Fair value of financial instruments measured at fair value on a recurring basis
  - 1) Fair value hierarchy

## December 31, 2018

|  |    | Level 1      | Le | vel 2    |           | Level 3   |           | Total      |
|--|----|--------------|----|----------|-----------|-----------|-----------|------------|
| Compulsory financial assets at FVTPL                       |    |              |    |          |           |           |           |            |
| Domestic listed shares                                     | \$ | 220,787      | \$ | _        | \$        | -         | \$        | 220,787    |
| Domestic emerging market shares                            |    | 85,780       |    | -        |           | -         |           | 85,780     |
| Mutual funds   |    | 243,271      |    | -        |           | -         |           | 243,271    |
|  | \$ | 549,838      | \$ |          | <u>\$</u> | <u>-</u>  | <u>\$</u> | 549,838    |
| Financial assets at FVTOCI<br>Equity instrument investment |    |              |    |          |           |           |           |            |
| Domestic listed shares                                     | \$ | 6,282,884    | \$ | -        | \$        | -         | \$        | 6,282,884  |
| Foreign listed shares                                      |    | 19,926,459   |    | -        |           | -         |           | 19,926,459 |
| Domestic unlisted shares                                   |    | -            |    | -        |           | 5,865,710 |           | 5,865,710  |
| Preference shares  | _  | <del>-</del> | -  |          |           | 51,375    |           | 51,375     |
|  | \$ | 26,209,343   | \$ | <u> </u> | \$        | 5,917,085 | <u>\$</u> | 32,126,428 |
| Financial liabilities at FVTPL                             |    |              |    |          |           |           |           |            |
| Derivatives  | \$ |              | \$ |          | \$        | 139,460   | \$        | 139,460    |

## December 31, 2017

|   | Level 1              | Level 2     | Level 3   | Total                |
|---|----------------------|-------------|-----------|----------------------|
| Financial assets at FVTPL<br>Mutual funds | <u>\$ 147,049</u>    | <u>\$</u>   | <u>\$</u> | <u>\$ 147,049</u>    |
| Available-for-sale financial assets       |                      |             |           |                      |
| Domestic listed shares                    | \$ 10,145,547        | \$ -        | \$ -      | \$ 10,145,547        |
| Foreign listed shares                     | 18,238,096           | -           | -         | 18,238,096           |
| Domestic emerging market shares           | 89,037               | -           | -         | 89,037               |
| Mutual funds                              | 84,478               |             |           | 84,478               |
|   | <u>\$ 28,557,158</u> | <u>\$ -</u> | \$ -      | <u>\$ 28,557,158</u> |

There were no transfers between Levels 1 and 2 in the current and prior periods.

## 2) Reconciliation of Level 3 fair value measurements of financial instruments

|  | For the Year<br>Ended<br>December 31, |
|--|---------------------------------------|
|  | 2018                                  |
| Financial assets at FVTOCI               |                                       |
| Equity instrument investment             |                                       |
| Balance at January 1, 2018               | \$ 5,497,046                          |
| Additional                               | 292,469                               |
| Disposal                                 | (1,333)                               |
| Recognized in other comprehensive income | 393,185                               |
| Reclassification                         | (264,562)                             |
| Effect of exchange rate                  | 280                                   |
| Balance at December 31, 2018             | <u>\$ 5,917,085</u>                   |
| Financial assets at FVTPL                |                                       |
| Derivative instrument investment         |                                       |
| Balance at January 1, 2018               | \$ -                                  |
| Additional                               | 159,222                               |
| Recognized in income (loss)              | (19,762)                              |
| Balance at December 31, 2018             | <u>\$ 139,460</u>                     |

## 3) Valuation techniques and inputs applied for Level 3 fair value measurement

There were no quoted prices in active markets for put options and redemption options of ECB issued by the Corporation. Hence, the fair values of options are determined using the binomial option pricing model where the unobservable input is historical volatility. An increase in historical volatility used in isolation would result in an increase in the fair value. As of December 31, 2018, the historical volatility used was 29.22%.

The Group measures the fair value of its investments on domestic and foreign unlisted shares by using the asset-based approach, the market approach, and the dividend discount model.

Under the asset-based approach, the total value of an investment is based on the fair value of its assets and liabilities. The significant unobservable inputs used are listed in the table below.

> December 31, 2018

Comprehensive discount for lack of marketability and non-controlling interests

10%

If the inputs to the valuation model were changed to reflect reasonably possible alternative assumptions while all the other variables were held constant, the fair value of the shares would increase (decrease) as follows:

> December 31, 2018 \$ (20,260)

Comprehensive discount for lack of marketability and non-controlling interests 1% increase

\$ 20,260

1% decrease

The market approach involves comparing a target company with companies that have similar business models in the open market, similar selling prices of similar items, or similar past share prices to that of the target company. The significant unobservable inputs used are listed in the table below.

> December 31, 2018

Discount for lack of marketability

20%-30%

If the inputs to the valuation model were changed to reflect reasonably possible alternative assumptions while all the other variables were held constant, the fair value of the shares would increase (decrease) as follows:

> December 31, 2018

Discount for lack of marketability

1% increase (4.810)1% decrease 4,810

The dividend discount model values a target company based on its stability of dividend payments in the past.

December 31, 2018 Discount rate 7.9% Dividend growth rate 1.7% Discount for lack of marketability 10.0%

If the inputs to the valuation model were changed to reflect reasonably possible alternative assumptions while all the other variables were held constant, the fair value of the shares would increase (decrease) as follows:

|                                    | December 31,<br>2018 |
|------------------------------------|----------------------|
| Discount for lack of marketability |                      |
| 1% increase                        | <u>\$ (39,745)</u>   |
| 1% decrease                        | <u>\$ 39,745</u>     |

### c. Categories of financial instruments

|  | December 31 |             |  |
|--|-------------|-------------|--|
|  | 2018        | 2017        |  |
| Financial assets                                     |             |             |  |
| Financial assets at FVTPL                            |             |             |  |
| Held for trade                                       | \$ -        | \$ 147,049  |  |
| Mandatorily classified financial assets at FVTPL     | 549,838     | · -         |  |
| Loans and receivables (1)                            | -           | 88,120,239  |  |
| Available-for-sale financial assets (2)              | -           | 29,139,977  |  |
| Financial asset measured at amortized cost (3)       | 121,340,092 |             |  |
| Financial assets at FVTOCI                           |             |             |  |
| Equity instrument investment                         | 32,126,428  | -           |  |
| Financial liabilities                                |             |             |  |
| Financial liabilities at FVTPL                       |             |             |  |
| Held for trade                                       | 139,460     | -           |  |
| Financial liabilities measured at amortized cost (3) | 124,930,847 | 102,339,326 |  |

- 1) The balances include loans and receivables measured at amortized cost, which comprise cash and cash equivalents, notes and accounts receivable, other receivables, other financial assets and long-term finance lease receivables.
- 2) The balances include the carrying amount of available-for-sale financial assets carried at cost.
- 3) The balances include financial assets measured at amortized cost, which comprise cash and cash equivalents, notes and accounts receivable, other receivable and long-term finance lease receivables.
- 4) The balances include financial liabilities measured at amortized cost, which comprise short-term loans, short-term bills payables, notes and accounts payables, other payables, bonds payable, long-term loans (including current portion), and long-term notes payable.

#### d. Financial risk management objectives and policies

The risk control and hedging strategy performed by the Group were affected by operation environments, and the Group adopted appropriate risk controls and hedging strategies according to its nature of business and risk diversification principles. These risks include market risk, credit risk and liquidity risk.

The Group sought to minimize the effects of these risks by using derivative financial instruments to hedge risk exposures. The Group did not enter into or trade financial instruments for speculation.

#### 1) Market risk

The Group's financial instruments were mainly comprised of mutual funds and listed shares, and these investments were subject to fluctuations in market prices. The Group has periodically evaluated the investment's performance, and no significant market risk was anticipated.

The Group entered into foreign exchange forward contracts to manage exposure to exchange rate fluctuations, including foreign currency risks of foreign-currency assets and liabilities and price fluctuation risks of forecasted transactions. Since the gain or loss generated from exchange rate fluctuations was mostly offset by the gains or losses of hedged items, the market price risk is expected to be insignificant.

## a) Foreign currency risk

The foreign financial assets and liabilities were exposed to risk of foreign currency fluctuations. To lower foreign currency risk, the Group has established control mechanisms to immediately monitor it foreign currency position and exchange rate fluctuations.

To maximize the hedging effectiveness, the Group matched up the conditions of derivative instruments with those in the contracts of hedged items.

The carrying amounts of the significant monetary assets and liabilities not denominated in functional currency (including those eliminated on consolidation) at the end of the reporting period are set out in Note 34.

The Group was mainly exposed to the USD.

The following table details the Group's sensitivity to a 1% increase and decrease in the functional currency against the relevant foreign currencies. The sensitivity analysis included only outstanding foreign currency denominated monetary items and adjusts their translation at the end of the reporting period for a 1% change in foreign currency rates. A positive number below indicates an increase in after-tax profit or equity associated with the NTD/RMB/HKD strengthening 1% against the relevant currency.

|     | USD Impact For the Year Ended December 31 |            | For the Y  | Impact<br>ear Ended<br>iber 31 |
|-----|---|------------|------------|--------------------------------|
|     | 2018                                      | 2017       | 2018       | 2017                           |
| NTD | \$( 22,798)                               | \$ 1,370   |            |                                |
| RMB | \$ (4,403)                                | \$ (9,741) | \$ (3,857) | \$ (3,864)                     |
| HKD | \$ 75,681                                 | \$ 366,295 |            |                                |

### b) Interest rate risk

The carrying amount of the Group's financial assets and financial liabilities with exposure to interest rates at the end of the reporting period were as follows:

|                              |           | December 31        |  |  |  |
|------------------------------|-----------|--------------------|--|--|--|
|                              | 2018      | 2017               |  |  |  |
| Cash flow interest rate risk |           |                    |  |  |  |
| Financial assets             | \$ 21,245 | ,130 \$ 15,092,905 |  |  |  |
| Financial liabilities        | 52,781    | ,969 77,719,322    |  |  |  |

The interest risk was evaluated based on the position of financial assets and liabilities. The sensitivity analysis below was determined based on the Group's floating interest rate financial assets and liabilities at the end of the reporting period, and a 50 basis point increase or decrease was used, representing management's assessment of reasonably possible change in interest rates. The fair values of fixed interest rate financial assets and liabilities will change due to variances in market interest rates; the future cash flows of floating interest rate financial assets and financial liabilities will change due to variances in effective interest rates, which vary with market interest rates.

For the Group's position of floating interest rate financial assets, if interest rates had been 50 basis points higher/lower, the cash inflows from floating interest rate financial assets for the years ended December 31, 2018 and 2017 would increase/decrease by \$84,981 thousand and \$62,636 thousand, respectively.

For the Group's position of floating interest rate financial liabilities, if interest rates had been 50 basis points higher/lower, the cash outflows from floating interest rate financial liabilities for the years ended December 31, 2018 and 2017 would increase/decrease by \$211,128 thousand and \$322,535 thousand, respectively.

#### c) Other price risk

The Group was exposed to equity price risk through its investments in listed shares and emerging market shares. Equity investments are held for strategic rather than trading purposes. The Group does not actively trade these investments. Sensitivity analyses were used for evaluating the exposure to equity price risks.

The sensitively analyses were based on the exposure of equity price at the end of reporting period. If equity prices of financial assets at FVTPL had been 5% higher/lower, profit or loss for the year ended December 31, 2018 would increase/decrease by \$15,328 thousand. If equity prices of financial assets at FVTOCI had been 5% higher/lower, other comprehensive income (loss) for the year ended December 31, 2018 would increase/decrease by \$1,606,321 thousand.

If equity price of available-for-sale financial assets had been 5% higher/lower, other comprehensive income (loss) for the year ended December 31, 2017 would increase/decrease by \$1,423,634 thousand.

## 2) Credit risk

Potential impacts on financial assets would occur if the Group's counterparties breach financial instrument contracts, including impacts to the concentration of credit risk, components contractual amounts and other receivables.

As at the end of the reporting period, the Group's maximum exposure to credit risk, which would cause a financial loss to the Group due to the failure of counterparties to discharge an obligation, could arise from the carrying amounts of the respective recognized financial assets as stated in the balance sheets.

The Group transacted with a large number of customers from various industries and geographical locations.

The Group continuously assesses the operations and financial positions of customers and monitors the collectability of accounts receivable. The Group also required credit enhancements by bank guarantees or collateral for certain customers or in certain geographical locations.

The credit risk on liquid funds and derivatives was limited because the counterparties are banks with high credit ratings which were assigned by international credit-rating agencies.

## 3) Liquidity risk

The Group manages liquidity risk by monitoring and maintaining a level of cash and cash equivalents deemed adequate to finance the Group's operations and mitigate the effects of fluctuations in cash flows. In addition, management monitors the utilization of bank facilities and ensures compliance with loan covenants. As of December 31, 2018 and 2017, the amount of unused financing facilities was \$86,267,583 thousand and \$53,787,990 thousand, respectively.

The following table details the Group's remaining contractual maturity for its non-derivative financial liabilities with agreed repayment periods. The table has been drawn up based on the undiscounted cash flows of financial liabilities from the earliest date on which the Group can be required to pay. The table included both interest and principal cash outflows. Specifically, bank loans with a repayment on demand clause were included in the earliest time band regardless of the probability of the banks choosing to exercise their rights. The maturity dates for other non-derivative financial liabilities were based on the agreed upon repayment dates.

#### December 31, 2018

|   | On Demand or<br>Less than<br>1 Month                     | 1-3 Months  | 3 Months to<br>1 Year                                | 1-5 Years  | 5+ Years  |
|---|--|---|--|--|---|
| Non-derivative financial liabilities  |  |   |  |  |   |
| Non-interest bearing<br>Variable interest rate liabilities<br>Fixed interest rate liabilities | \$ 1,766,327<br>13,576,888<br>2,100,000<br>\$ 17,443,215 | \$ 14,583,921<br>11,553,847<br>5,310,000<br>\$ 31,447,768 | \$ 1,925,461<br>3,755,077<br>204,000<br>\$ 5,884,538 | \$ 44,177<br>25,393,791<br>22,850,000<br>\$ 48,287,968 | \$ 21,504<br>724,696<br>27,169,477<br>\$ 27,915,677 |
| <u>December 31, 2017</u>  | <u>V 17,7770,0012</u>                                    | <u>y 31,447,700</u>                                       | <u>9 3,004,330</u>                                   | <u>v +0,207,700</u>                                    | <u>y 21,713,011</u>                                 |
|   | On Demand or<br>Less than<br>1 Month                     | 1-3 Months  | 3 Months to<br>1 Year                                | 1-5 Years  | 5+ Years  |
| Non-derivative financial liabilities  |  |   |  |  |   |
| Non-interest bearing<br>Variable interest rate liabilities<br>Fixed interest rate liabilities | \$ 1,532,006<br>5,297,405<br>2,110,000                   | \$ 15,322,363<br>12,370,612<br>4,000,000                  | \$ 1,402,386<br>18,013,008<br>1,890,000              | \$ 175,479<br>45,344,121                               | \$ 37,711   |
|   | \$ 8,939,411   | \$31,692,975  | \$ 21,305,394  | \$ 45,519,600  | \$ 37,711   |

## 31. TRANSACTIONS WITH RELATED PARTIES

Balances and transactions between the Corporation and its subsidiaries, which are related parties of the Corporation, have been eliminated on consolidation and are not disclosed in this note. Details of transactions between the Group and other related parties are as follows:

## a. Name of the related parties and relationship

| Related Party   | Relationship with the Group                         |
|---|---|
| Onyx Ta-Ho Waste Clearance Co., Ltd.  | Associates' subsidiary                              |
| ONYX Ta-Ho Environmental Services Co., Ltd.   | Associates  |
| Shih Hsin Storage & Transportation Co., Ltd.  | Associates  |
| Quon Hing Concrete Co., Ltd.(Quon Hing)   | Associates  |
| Yinde Conch Cement Co., Ltd.  | Associates  |
| Yunnan Kungang & K. Wah Cement Construction Materials Co., Ltd.                             | Associates  |
| Baoshan Kungang & K. Wah Cement Construction Materials Co., Ltd.                            | Associates  |
| CCC USA Corp.   | Associates  |
| Hong Kong Concrete Co., Ltd.  | Associates  |
| E-ONE Moli Energy Corporation   | Associates (same key management personnel in 2017)  |
| International CSRC Investment Holdings Co., Ltd.  | Associates (same key management personnel in 2017)  |
| Chia Hsin R.M.C. Corp.  | Management personnel in substance                   |
| The Koo Foundation  | Management personnel in substance                   |
| Chia Hsin Cement Corporation  | Management personnel in substance                   |
| L'Hotel de Chine Corporation  | Management personnel in substance                   |
| FDC International Hotels Corporation-Sun Moon<br>Lake                                       | Management personnel in substance                   |
| Jiangsu Lianhe Cement Co., Ltd.   | Management personnel in substance                   |
| Goldsun Development & Construction Co., Ltd.  | Investors with significant influence over the Group |
| China Hi-Ment Corporation   | The Group acts as key management personnel          |
| Rong Gong Enterprise Co.  | The Group acts as key management personnel          |
| O-Bank Co., Ltd.  | The Group acts as key management personnel          |
| Pan Asia Corporation  | The Group acts as key management personnel          |
| Sole Energy Tech Corp. (dissolved and closed on June 30, 2017)                              | same key management personnel                       |
| Synpac-Kingdom Pharmaceutical Co., Ltd.,  |   |
| (Internation CSRC Investment Holdings Co., Ltd.'s subsidiary, disposed of in November 2017) | same key management personnel                       |
| Chinatrust Investment Co., Ltd.   | same key management personnel                       |
| Consolidated Resource Company   | same key management personnel                       |
| CSRC China (Ma Anshan) Corporation  | same key management personnel                       |
| CSRC China (Anshan) Corporation   | same key management personnel                       |
| Chienten Temple   | same key management personnel                       |
| He Feng Investment Co., Ltd.  | same key management personnel                       |
| China (Chongqing) Synthetic Rubber Corporation  | same key management personnel                       |
| Dr. Cecilla Koo Botanic Conservation and Environmental Protection Foundation                | same key management personnel                       |
| Continental Carbon India Ltd.   | same key management personnel                       |
| Linyuan Advanced Materials Technology Co., Ltd.   | same key management personnel                       |

## b. Operating transactions

|   | For the Year Ended December 31 |                     |
|---|--------------------------------|---------------------|
|   | 2018                           | 2017                |
| Sales   |                                |                     |
| Management personnel in substance                   | \$ 516,859                     | \$ 452,153          |
| Associates  | 437,139                        | 507,116             |
| The Group acts as key management personnel          | 197,581                        | 150,536             |
| Investors with significant influence over the Group | 81,973                         | 81,598              |
| Same key management personnel                       | 51,032                         | 178,727             |
|   | <u>\$ 1,284,584</u>            | <u>\$ 1,370,130</u> |
| Purchases of goods and operating expenses           |                                |                     |
| The Group acts as key management personnel          | \$ 523,764                     | \$ 441,550          |
| Associates  | 200,084                        | 105,648             |
| Management personnel in substance                   | 87,234                         | 29,624              |
| Same key management personnel                       | 40,552                         | 62,777              |
| Investors with significant influence over the Group | 31                             | 57                  |
|   | <u>\$ 851,665</u>              | <u>\$ 639,656</u>   |

Notes receivable and accounts receivable from related parties as of December 31, 2018 and 2017 were as follows:

|   | December 31       |                   |  |
|---|-------------------|-------------------|--|
|   | 2018              | 2017              |  |
| Management personnel in substance                   |                   |                   |  |
| Chia Hsin Cement Corporation                        | \$ 112,833        | \$ 45,551         |  |
| Others  | 8,577             | 19,941            |  |
|   | 121,410           | 65,492            |  |
| Associates  | <u> </u>          |                   |  |
| Quon Hing Concrete Co., Ltd.                        | 34,651            | 69,518            |  |
| Others  | 18,406            | 19,901            |  |
|   | 53,057            | 89,419            |  |
| The Group acts as key management personnel          |                   |                   |  |
| China Hi-Ment Corporation                           | 42,627            | 46,407            |  |
| Others  | 515               | -                 |  |
|   | 43,142            | 46,407            |  |
| Investors with significant influence over the Group | 40,887            | <u>17,771</u>     |  |
| Same key management personnel                       | 13,122            | 10,613            |  |
|   | <u>\$ 271,618</u> | <u>\$ 229,702</u> |  |

Accounts payables from related parties (included in notes and accounts payable) as of December 31, 2018 and 2017 were as follows:

|  | December 31 |         |    |         |
|--|-------------|---------|----|---------|
|  |             | 2018    |    | 2017    |
| The Group acts as key management personnel | \$          | 164,614 | \$ | 127,997 |
| Same key management personnel              |             | 13,949  |    | 4,023   |
| Associates                                 |             | 10,720  |    | 11,370  |
| Management personnel in substance          |             | 5,833   |    | 2,413   |
| Others                                     |             | 4       |    | 10      |
|  | \$          | 195,120 | \$ | 145,813 |

The price and terms of the above transactions were similar to those for third parties. Rentals of lease contracts with related parties were based on market prices and the payment terms were determined at arm's length.

## c. Other receivables from related parties (included in other current assets)

|  | December 31 |                        |                           |
|--|-------------|------------------------|---------------------------|
|  |             | 2018                   | <br>2017                  |
| Associates Management personnel in substance Same key management personnel | \$          | 20,633<br>3,231<br>236 | \$<br>1,868<br>274<br>950 |
|  | <u>\$</u>   | 24,100                 | \$<br>3,092               |

Other receivables from related parties included dividend receivables and interest receivables.

## d. Acquisitions of property, plant and equipment

|   | Purchase Price                |      |
|---|-------------------------------|------|
|   | For the Year Ended December 3 |      |
|   | 2018                          | 2017 |
| Management personnel in substance<br>Chia Hsin R.M.C. Corp. | \$ 25,000                     | \$ - |

## e. Compensation of key management personnel

The compensation of directors and other key management personnel for the years ended December 31, 2018 and 2017 were as follows:

|   | For the Year Ended December 31 |                   |    |                            |
|---|--------------------------------|-------------------|----|----------------------------|
|   |                                | 2018              |    | 2017                       |
| Short-term employee benefits Post-employment benefits Other long-term employee benefits | \$                             | 398,430<br>14,765 | \$ | 240,149<br>4,576<br>25,329 |
|   | <u>\$</u>                      | 413,195           | \$ | 270,054                    |

## 32. ASSETS PLEDGED AS COLLATERAL OR FOR SECURITY

The following assets were pledged or mortgaged as collateral for certain short-term loans, long-term loans, performance bonds and other credit accommodations:

|   | December 31   |               |
|---|---------------|---------------|
|   | 2018          | 2017          |
| Available-for-sale financial assets (including current and non-current portion)   | \$ -          | \$ 365,369    |
| Financial assets at FVTOCI (including current and non-current portion)  | 326,422       | -             |
| Property, plant and equipment   | 4,146,933     | 2,552,170     |
| Investment properties   | 876,670       | 1,142,268     |
| Finance lease receivables (including current and non-current portion) Pledged bank deposits   | 14,623,834    | 16,019,540    |
| <ul> <li>current (included in other financial assets)</li> <li>current (included in financial assets measured at amortized cost)</li> </ul> | 281,690       | 385,436       |
| - non-current (included in other non-current assets)  | 470,199       | 273,977       |
|   | \$ 20,725,748 | \$ 20,738,760 |

## 33. SIGNIFICANT CONTINGENT LIABILITIES AND UNRECOGNIZED COMMITMENTS

a. The balances of the letters of credit for purchase of raw material were as follows:

|  | December 31 |            |  |
|--|-------------|------------|--|
| Name                                   | 2018        | 2017       |  |
| The Corporation                        | \$ 388,405  | \$ 235,248 |  |
| Taiwan Prosperity Chemical Corporation | 1,452,453   | 1,413,476  |  |
| Ho-Ping Power Company                  | 921,843     | 495,020    |  |

- b. As of December 31, 2017, the Corporation has issued bills of lading for finished goods in the amount of 286,000 tons as collateral for its credit facilities with financial institutions.
- c. The amounts of letters of guarantee issued by the banks for the Group are as follows:

|  | December 31 |           |  |  |
|--|-------------|-----------|--|--|
| Name                                   | 2018        | 2017      |  |  |
| The Corporation                        | \$ 22,120   | \$ 45,990 |  |  |
| Ho-Ping Power Company                  | 1,148,000   | 1,148,000 |  |  |
| Taiwan Prosperity Chemical Corporation | 249,490     | 94,000    |  |  |
| TCCI (Group)                           | 248,924     | 362,561   |  |  |
| Taiwan Transport & Storage Corporation | 28,150      | 28,150    |  |  |

# d. Ta-Ho Onyx RSEA Environment Co., Ltd.

| Company Name                    | Ta-Ho Onyx RSEA Environment Co., Ltd.  |
|---------------------------------|--|
| Factual Background              | In respect of the termination of the "Build-Own-Operate Agreement for Waste Incineration Plant" (the "BOO Agreement") entered into by and between Ta-Ho Onyx RSEA Environment Co., Ltd. and the Yunlin County Government, the arbitration award decided that Yunlin County Government shall pay Ta-Ho Onyx RSEA Environment Co., Ltd. \$1.5 billion before November 30, 2008 as a Phase I payment and the remainder as a Phase II payment in the aggregate amount of about \$1.44 billion (including \$1,387,000 thousand, US\$1,706 thousand and JPY307 thousand) before June 30, 2009, and Ta-Ho Onyx RSEA Environment Co., Ltd. shall transfer the assets under the BOO Agreement to the Yunlin County Government at the same time. |
| Amount in Dispute (NT\$)        | About \$2.94 billion   |
| Commencement Date of Litigation | The arbitration award was rendered on October 1, 2008.   |
| Parties                         | Ta-Ho Onyx RSEA Environment Co., Ltd. and the Yunlin County<br>Government  |
| Status                          | Ta-Ho Onyx RSEA Environment Co., Ltd. has applied for compulsory enforcement for the payment awarded by the arbitration and, thus far, has received the principal together with the interest in the amount of about \$3,540,000 thousand (tax included). As for the dispute over the interest of about \$270,000 thousand between Ta-Ho Onyx RSEA Environment Co., Ltd and Yunlin County Government, it is now in the process of the re-appeal procedure. If the court eventually rules in favor of Ta-Ho Onyx RSEA Environment Co., Ltd, it may continue the compulsory enforcement.  |

# e. Ho-Ping Power Company

| Company Name             | Ho-Ping Power Company  |
|--------------------------|--|
| Factual Background       | The Fair Trade Commission fined Ho-Ping Power Company \$1.35 billion   |
|                          | for an alleged violation of Article 14 of the Fair Trade Act.  |
| Amount in Dispute (NT\$) | \$1.35 billion   |
| Commencement Date of     | March 2013   |
| Litigation               |  |
| Parties                  | Ho-Ping Power Company and the Fair Trade Commission  |
| Status                   | The Fair Trade Commission made a second administrative disposition on November 2013, which reduced the amount of the fine imposed on Ho-Ping Power Company to \$1,320,000 thousand.  |
|                          | On June 30, 2015, the Supreme Administrative Court overruled the original judgment in favor of Ho-Ping Power Company and remanded the case for retrial to the Taipei High Administrative Court. On May 25, 2017, the Taipei High Administrative Court ruled in favor of Ho-Ping Power Company by holding that "the original disposition and decision of administrative appeal, which determined that Ho-Ping Power Company committed concerted action, shall be dismissed." On the appeal part of the participant Taiwan Power Company, the Supreme Administrative Court made the ruling of "Appeal Rejection" on September 6, 2018 (Ref. No. 107 Nian-Du-Cai-Zi-Di 1380). In the case of another appellant (the Fair Trade Commission), the Supreme Administrative Court overruled the original judgment by rendering the judgment (Ref. No. 107 Nian-Du-Pan-Zi 550) on the same day, and remanded the case to the Taipei High Administrative Court for retrial. The case is currently under review by the Taipei High Administrative Court (Ref. No. 107 Nian-Du-Su-Geng-Er-Zi 116). |
|                          | In accordance with the accounting conservatism principle, Ho-Ping Power Company recognized relevant losses in 2012 and paid a fine of \$1,188,000 thousand as of December 31, 2018. The outstanding fine was recognized by Ho-Ping Power Company under (i) other payables of \$132,000 thousand as of December 31, 2018 and (ii) other payables of \$264,000 thousand and other non-current liabilities of \$132,000 thousand as of December 31, 2017.   |

| Company Name             | Ho-Ping Power Company  |
|--------------------------|--|
| Factual Background       | Taiwan Power Company filed a lawsuit against Ho-Ping Power Company at  |
|                          | the Taipei High Administrative Court claiming for its losses of at least   |
|                          | \$5.2 billion plus interest, which was then expanded to \$10.76 billion, and   |
|                          | filed another civil litigation at the Taipei District Court claiming for \$5.5   |
|                          | billion.   |
| Amount in Dispute (NT\$) | About \$16 billion in total  |
| Commencement Date of     | September 2015   |
| Litigation               |  |
| Parties                  | Ho-Ping Power Company and Taiwan Power Company   |
| Status                   | 1) There are 2 outstanding litigations against Taiwan Power Company:   |
|                          | a) In September 2015, Ho-Ping Power Company received an  |
|                          | administrative pleading submitted by Taiwan Power Company to the   |
|                          | Taipei High Administrative Court, which was transferred to the   |
|                          | Taiwan Taipei District Court in February 2017, and Taiwan Power  |
|                          | Company expanded the claim amount to \$10.76 billion. The case is  |
|                          | now under review by the Taiwan Taipei District Court after Taiwan  |
|                          | Power Company paid court fees in November 2017.  |
|                          | b) In November 2015, Ho-Ping Power Company received a complaint of civil litigation brought by Taiwan Power Company at the Taiwan Taipei District Court based on the same ground of the  |
|                          | aforementioned administrative litigation. The case is currently under review by the Taipei District Court.   |
|                          | 2) Taiwan Power Company filed a lawsuit against other independent power producers based on the same ground, which was overruled by the Taipei District Court on February and June 2018. Ho-Ping Power Company will report such court decision to the Taipei District Court to pursue a favorable judgment. |
|                          | 3) Given such situations, Ho-Ping Power Company considered the chance of losing the litigations is remote and, therefore, it did not recognize relevant losses.  |

f. To execute the cement barge replacement plan, Da-Ho Maritime Corporation, based on its board of directors' resolution dated December 20, 2013, entered into an agreement with Supero Seiki Co., Ltd. for the purchase of two sets of bulk cement handling equipment in the aggregate amount of US\$7,600 thousand, among which US\$6,132 thousand was paid as of the date that this report was approved.

Based on another board of directors' resolutions dated July 31, 2015, Da-Ho Maritime Corporation entered into an agreement with Cardinal Maritime S.A. for the purchase of two new cement barges in the aggregate amount of JPY7,036,000 thousand, among which JPY3,342,100 thousand was paid as of the date that this report was approved. The board of directors adopted another resolution dated October 15, 2015 to enter into an agreement with Sumitomo Corporation for the purchase of six bulk carriers in the aggregate amount of US\$107,680 thousand. Four bulk carrier purchase agreements have been executed, and US\$75,966 thousand has been paid as of the date that this report was authorized.

## 34. SIGNIFICANT ASSETS AND LIABILITIES DENOMINATED IN FOREIGN CURRENCIES

The following information was aggregated by the foreign currencies other than functional currencies of the group entities and the exchange rates between foreign currencies and respective functional currencies were disclosed. The significant assets and liabilities denominated in foreign currencies were as follows:

## December 31, 2018

|                                | Foreign<br>Currencies<br>(In Thousands)   | Exchange Rate   | Carrying<br>Amount   |
|--------------------------------|---|---|--|
| Financial assets               |   |   |  |
| Monetary items USD USD USD HKD | \$ 124,083<br>17,928<br>20,572<br>254,650 | 30.715 (USD:NTD)<br>6.868 (USD:RMB)<br>7.83 (USD:HKD)<br>0.877 (HKD:RMB)  | \$ 3,811,209<br>550,421<br>631,584<br>998,483<br>\$ 5,991,697                    |
| Non-monetary items<br>EUR      | 825,888                                   | 35.20 (EUR:NTD)   | \$ 29,071,244  |
| Financial liabilities          |   |   |  |
| Monetary items USD USD HKD     | 31,302<br>328,705<br>131,678              | 30.715 (USD:NTD)<br>7.830 (USD:HKD)<br>0.877 (HKD:RMB)                    | \$ 961,432<br>10,091,720<br>516,308<br>\$ 11,569,460                             |
| <u>December 31, 2017</u>       |   |   |  |
|                                | Foreign<br>Currencies<br>(In Thousands)   | Exchange Rate   | Carrying<br>Amount   |
| Financial assets               |   |   |  |
| Monetary items USD USD USD HKD | \$ 51,421<br>39,472<br>9,707<br>269,460   | 29.760 (USD:NTD)<br>6.508 (USD:RMB)<br>7.810 (USD:HKD)<br>0.833 (HKD:RMB) | \$ 1,530,289<br>1,173,601<br>288,622<br>1,025,835<br>\$ 4,018,347<br>(Continued) |

|                       | Foreign<br>Currencies<br>(In Thousands) | Exchange Rate    | Carrying<br>Amount           |
|-----------------------|---|------------------|------------------------------|
| Financial liabilities |   |                  |                              |
| Monetary items        |   |                  |                              |
| USD                   | \$ 56,967                               | 29.760 (USD:NTD) | \$ 1,695,325                 |
| USD                   | 1,494,000                               | 7.810 (USD:HKD)  | 44,420,609                   |
| HKD                   | 147,171                                 | 0.833 (HKD:RMB)  | 560,278                      |
|                       |   |                  | \$ 46,676,212<br>(Concluded) |

The realized and unrealized foreign exchange gains and losses were net gains of \$48,764 thousand and net losses of \$241,360 thousand for the years ended December 31, 2018 and 2017, respectively. It is impractical to disclose net foreign exchange gains (losses) by each significant foreign currency due to the variety of foreign currency transactions and functional currencies of the group entities.

#### 35. SEPARATELY DISCLOSED ITEMS

- a. Information about significant transactions and investees
  - 1) Financing provided to others (Table 1)
  - 2) Endorsements/guarantees provided (Table 2)
  - 3) Marketable securities held (excluding investment in subsidiaries, associates and joint ventures) (Table 3)
  - 4) Marketable securities acquired and disposed of at costs or prices of at least NT\$300 million or 20% of the share capital (Table 4)
  - 5) Acquisitions of individual real estate at costs of at least NT\$300 million or 20% of the share capital (Table 5)
  - 6) Disposals of individual real estate at prices of at least NT\$300 million or 20% of the share capital (None)
  - 7) Total purchases from or sales to related parties amounting to at least NT\$100 million or 20% of the share capital (Table 6)
  - 8) Receivables from related parties amounting to at least NT\$100 million or 20% of the share capital (Table 7)
  - 9) Trading in derivative instruments (Notes 7, 20 and 30)
  - 10) Intercompany relationships and significant intercompany transactions (Table 10)
  - 11) Information on investees (Table 8)

- b. Information on investments in mainland China (Table 9)
  - 1) Information on any investee company in mainland China, showing the name, principal business activities, paid-in capital, method of investment, inward and outward remittance of funds, ownership percentage, net income of investees, investment income or loss, carrying amount of the investment at the end of the year, repatriations of investment income, and limit on the amount of investment in the mainland China area.
  - 2) Any of the following significant transactions with investee companies in mainland China, either directly or indirectly through a third party, and their prices, payment terms, and unrealized gains or losses:
    - a) The amount and percentage of purchases and the balance and percentage of the related payables at the end of the year.
    - b) The amount and percentage of sales and the balance and percentage of the related receivables at the end of the year.
    - c) The amount of property transactions and the amount of the resultant gains or losses.
    - d) The balance of negotiable instrument endorsements or guarantees or pledges of collateral at the end of the year and the purposes.
    - e) The highest balance during the year, the end of year balance, the interest rate range, and total current year interest with respect to financing of funds.
    - f) Other transactions that have a material effect on the profit or loss for the year or on the financial position, such as the rendering or receipt of services.

## **36. SEGMENT INFORMATION**

Information reported to the chief operating decision maker for the purpose of resource allocation and assessment of segment performance focuses on the types of segment. Specifically, the Group's reportable segments under IFRS 8 "Operating Segments" were as follows:

- a. Cement segment production, processing and sale of cement goods
- b. Chemical engineering segment production, processing and sale of chemical raw materials
- c. Electricity segment thermal power generation
- d. Other segments land and marine transportation
  - production and sale of refractory materials
  - others

The Group uses the profit from operations as the measure for segment income and the basis of performance assessment. There was no material difference between the accounting policies of the operating segments and the accounting policies described in Note 4.

## a. Segments revenue and results

|  | Segment               | Revenue              | Segmen          | t Income             |
|--|-----------------------|----------------------|-----------------|----------------------|
|  | For the Year En       | ded December 31      | For the Year En | ded December 31      |
|  | 2018                  | 2017                 | 2018            | 2017                 |
| Cement segment Chemical engineering                | \$ 92,541,640         | \$ 71,905,276        | \$ 23,061,797   | \$ 9,608,840         |
| segment  | 15,280,144            | 13,192,984           | 471,534         | (162,677)            |
| Electricity segment                                | 12,784,465            | 10,353,637           | 4,420,459       | 4,326,424            |
| Other segments                                     | 3,988,353             | 2,859,879            | 442,199         | 256,603              |
|  | <u>\$ 124,594,602</u> | <u>\$ 98,311,776</u> | 28,395,989      | 14,029,190           |
| Share of profits of associates and joint           |                       |                      | 2.262.412       | 1 051 111            |
| ventures   |                       |                      | 2,263,413       | 1,271,111            |
| Dividend income                                    |                       |                      | 1,326,142       | 799,137              |
| Interest income                                    |                       |                      | 584,482         | 244,041              |
| Impairment loss recognized on financial assets     |                       |                      | -               | (110,507)            |
| Impairment loss recognized on non-financial assets |                       |                      | (31,032)        | (250,622)            |
| Administrative costs and                           |                       |                      |                 | , , ,                |
| director's remuneration                            |                       |                      | (215,088)       | (66,305)             |
| Finance costs                                      |                       |                      | (2,460,302)     | (1,923,309)          |
| Foreign exchange losses, net                       |                       |                      | 48,764          | (241,360)            |
| Other income                                       |                       |                      | 632,053         | 73,283               |
| Income before income tax                           |                       |                      | \$ 30,544,421   | <u>\$ 13,824,659</u> |

Segment income represented profit before tax earned by each segment without allocation of central administration costs, director's remuneration, share of profits of associates and joint ventures, dividend income, interest income, impairment recognized on financial assets, impairment loss recognized on non-financial assets, finance costs, foreign exchange gains and losses and income tax expense.

## b. Geographical information

The Group's revenue from external customers by location of operations and information about its non-current assets by location of assets are detailed below.

|                |                                    | om External                 |                                    |                             |
|----------------|------------------------------------|-----------------------------|------------------------------------|-----------------------------|
|                | Custo                              | omers                       | Non-curr                           | ent Assets                  |
|                | For the Year En                    | ded December 31             | Decem                              | iber 31                     |
|                | 2018                               | 2017                        | 2018                               | 2017                        |
| Taiwan<br>Asia | \$ 49,982,370<br><u>74,612,232</u> | \$ 43,396,202<br>54,915,574 | \$ 57,185,401<br><u>71,818,823</u> | \$ 56,115,398<br>77,590,957 |
|                | <u>\$ 124,594,602</u>              | <u>\$ 98,311,776</u>        | <u>\$ 129,004,224</u>              | <u>\$ 133,706,355</u>       |

Non-current assets exclude financial instruments, deferred income tax assets, and net defined benefit asset.

## c. Information about major customers

The only single customer who contributed 10% or more to the Group's revenue was as follows:

For the Year Ended December 31 2018 2017

Taiwan Power Company

<u>\$ 12,777,360</u> <u>\$ 10,353,637</u>

## 37. SIGNIFICANT SUBSEQUENT EVENTS

For the layout of environmental enterprise, the board of director of TCC Yingde Cement Co., Ltd. approved to setup wholly-owned TCC (Hangzhou) Environment Co., Ltd. investing in RMB700,000 thousand on March 18, 2019.

FINANCINGS PROVIDED TO OTHERS FOR THE YEAR ENDED DECEMBER 31, 2018 (In Thousands of New Taiwan Dollars)

|     |   |  |   |                    |                                   |                | Actual              |                      |   | Business              | Reason for              | Allowance for      | C    | ollateral | Financing Limit                | Aggregate              |      |
|-----|---|--|---|--------------------|-----------------------------------|----------------|---------------------|----------------------|---|-----------------------|-------------------------|--------------------|------|-----------|--------------------------------|------------------------|------|
| No. | Lender                                    | Borrower   | Financial<br>Statement Account                            | Related<br>Parties | Highest Balance<br>for the Period | Ending Balance | Borrowing<br>Amount | Interest<br>Rate (%) | Nature of Financing                         | Transaction<br>Amount | Short-term<br>Financing | Impairment<br>Loss | Item | Value     | for Each<br>Borrower<br>(Note) | Financing Limit (Note) | Note |
| 1   | Taiwan Transport & Storage<br>Corporation | TCC Chemical Corporation                           | Other receivables -<br>related parties                    | Yes                | \$ 300,000                        | \$ 300,000     | \$ 300,000          | 1.54                 | The need for short-term financing           | \$ -                  | Operating capital       | \$ -               |      | \$ -      | \$ 866,327                     | \$ 866,327             |      |
|     | Corporation                               | Ta-Ho RSEA Environment Co., Ltd.                   | Other receivables -<br>related parties                    | Yes                | 10,000                            | -              | -                   | -                    | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 866,327                        | 866,327                |      |
| 2   | Ta-Ho Taitung Environment Co.,<br>Ltd.    | Onyx Ta-Ho Energy Recovery Co.,<br>Ltd.            | Other receivables -<br>related parties                    | Yes                | 110,000                           | -              | -                   | -                    | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 118,875                        | 118,875                |      |
| 3   | Taiwan Cement Engineering<br>Corporation  | TCC Chemical Corporation                           | Other receivables -<br>related parties                    | Yes                | 200,000                           | 200,000        | 200,000             | 1.54                 | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 291,726                        | 291,726                |      |
| 4   | TCC Green Energy Corporation              | TCC Kao-Cheng Green Energy                         | Other receivables -                                       | Yes                | 5,000                             | 5,000          | 2,000               | 1.54                 | The need for short-term                     | -                     | Operating capital       | -                  |      | -         | 591,272                        | 591,272                | +    |
|     |   | Corporation TCC LIEN-HSIN Green Energy Corporation | related parties<br>Other receivables -<br>related parties | Yes                | 5,000                             | 5,000          | 2,000               | 1.54                 | financing The need for short-term financing | =                     | Operating capital       | =                  |      | -         | 591,272                        | 591,272                |      |
| 5   | TCC (Guigang) Cement Ltd.                 | TCC Huaying Cement Company                         | Other receivables -                                       | Yes                | 1,373,760                         | 1,287,343      | 715,190             | 3.48                 | The need for short-term                     | 1                     | Operating capital       | -                  |      | -         | 22,406,521                     | 44,813,042             | 1    |
|     |   | Limited<br>TCC Huaihua Cement Company              | related parties<br>Other receivables -                    | Yes                | 954,000                           | 893,988        | 422,856             | 3.48                 | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | -         | 22,406,521                     | 44,813,042             |      |
|     |   | Limited<br>TCC Jingzhou Cement Company             | related parties<br>Other receivables -                    | Yes                | 715,500                           | 670,491        | 581,092             | 3.48                 | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | _         | 22,406,521                     | 44,813,042             |      |
|     |   | Limited<br>Scitus Luzhou Cement Co., Ltd.          | related parties<br>Other receivables -                    | Yes                | 1,335,600                         | 1,251,583      | =                   | -                    | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | -         | 22,406,521                     | 44,813,042             |      |
|     |   | TCC Anshun Cement Company                          | related parties<br>Other receivables -                    | Yes                | 477,000                           | 446,994        | -                   | -                    | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | -         | 22,406,521                     | 44,813,042             |      |
|     |   | Limited<br>Scitus Naxi Cement Co., Ltd.            | related parties<br>Other receivables -                    | Yes                | 477,000                           | 446,994        | -                   | -                    | financing<br>The need for short-term        | =                     | Operating capital       | -                  |      | -         | 22,406,521                     | 44,813,042             |      |
|     |   | TCC Yingde Cement Co., Ltd.                        | related parties<br>Other receivables -                    | Yes                | 477,000                           | 446,994        | -                   | -                    | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | _         | 22,406,521                     | 44,813,042             |      |
|     |   | Scitus Luzhou Concrete Co., Ltd.                   | related parties<br>Other receivables -                    | Yes                | 95,400                            | 89,399         | -                   | -                    | financing<br>The need for short-term        | =                     | Operating capital       | -                  |      | -         | 22,406,521                     | 44,813,042             |      |
|     |   | Guizhou Kong On Cement Company                     | related parties<br>Other receivables -                    | Yes                | 310,050                           | 290,546        | -                   | -                    | financing<br>The need for short-term        | =                     | Operating capital       | -                  |      | -         | 22,406,521                     | 44,813,042             |      |
|     |   | Limited<br>Guigang TCC Dong Yuan                   | related parties<br>Other receivables -                    | Yes                | 854,991                           | -              | -                   | -                    | financing<br>The need for short-term        | =                     | Operating capital       | -                  |      | -         | 22,406,521                     | 44,813,042             |      |
|     |   | Environmental Technology<br>Company Limited        | related parties   |                    |                                   |                |                     |                      | financing                                   |                       |                         |                    |      |           |                                |                        |      |
| 6   | Yingde Dragon Mountain Cement             | TCC Yingde Cement Co., Ltd.                        | Other receivables -                                       | Yes                | 954,000                           | 893,988        | -                   | -                    | The need for short-term                     | 1                     | Operating capital       | -                  |      | -         | 13,222,157                     | 26,444,314             | 1    |
|     | Co., Ltd.                                 | TCC Liaoning Cement Company<br>Limited             | related parties<br>Other receivables -<br>related parties | Yes                | 1,087,560                         | 1,019,146      | 1,019,146           | 3.05                 | financing The need for short-term financing | -                     | Operating capital       | -                  |      | -         | 13,222,157                     | 26,444,314             |      |
| 7   | TCC Yingde Cement Co., Ltd.               | TCC Guangan Cement Co., Ltd.                       | Other receivables -                                       | Yes                | 954,000                           | 893,988        | -                   | -                    | The need for short-term                     | -                     | Operating capital       | ÷                  |      | =         | 21,247,365                     | 42,494,730             | 1    |
|     |   | TCC Huaihua Cement Company                         | related parties<br>Other receivables -                    | Yes                | 954,000                           | 893,988        | 748,715             | 3.48                 | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | _         | 21,247,365                     | 42,494,730             |      |
|     |   | Limited<br>Scitus Naxi Cement Co., Ltd.            | related parties<br>Other receivables -                    | Yes                | 238,500                           | 223,497        | 67,049              | 3.48                 | financing<br>The need for short-term        | =                     | Operating capital       | -                  |      | -         | 21,247,365                     | 42,494,730             |      |
|     |   | TCC Shaoguan Cement Co., Ltd.                      | related parties<br>Other receivables -                    | Yes                | 353,411                           | 331,179        | 331,179             | 3.68                 | financing<br>The need for short-term        | =                     | Operating capital       | -                  |      | -         | 21,247,365                     | 42,494,730             |      |
|     |   | TCC Jingzhou Cement Company                        | related parties<br>Other receivables -                    | Yes                | 238,500                           | 223,497        | -                   | -                    | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | -         | 21,247,365                     | 42,494,730             |      |
|     |   | Limited TCC Anshun Cement Company Limited          | related parties<br>Other receivables -<br>related parties | Yes                | 954,000                           | 893,988        | -                   | -                    | financing The need for short-term financing | =                     | Operating capital       | -                  |      | -         | 21,247,365                     | 42,494,730             |      |

(Continued)

|  |  |  |                    |                                   |                | Actual              |                      |                                      | Business              | Reason for              | Allowance for      | C    | ollateral | Financing Limit                | Aggregate                               |
|--|--|--|--------------------|-----------------------------------|----------------|---------------------|----------------------|--------------------------------------|-----------------------|-------------------------|--------------------|------|-----------|--------------------------------|---|
| No. Lender                               | Borrower   | Financial<br>Statement Account         | Related<br>Parties | Highest Balance<br>for the Period | Ending Balance | Borrowing<br>Amount | Interest<br>Rate (%) | Nature of Financing                  | Transaction<br>Amount | Short-term<br>Financing | Impairment<br>Loss | Item | Value     | for Each<br>Borrower<br>(Note) | Financing Limit (Note)                  |
|  |  |  |                    |                                   |                |                     |                      |                                      |                       |                         |                    |      |           | `                              |   |
|  | TCC (Dong Guan) Cement<br>Company Limited.               | Other receivables -<br>related parties | Yes                | \$ 477,000                        | \$ 446,994     | \$ -                | -                    | The need for short-term<br>financing | \$ -                  | Operating capital       | \$ -               |      | \$ -      | \$ 21,247,365                  | \$ 42,494,730                           |
|  | TCC Chongqing Cement Company                             | Other receivables -                    | Yes                | 477,000                           | 446,994        | 178,798             | 3.48                 | The need for short-term              | -                     | Operating capital       | =                  |      | -         | 21,247,365                     | 42,494,730                              |
|  | Limited<br>Guizhou Kaili Rui An Jian Cai                 | related parties<br>Other receivables - | Yes                | 715,500                           | 670,491        |                     |                      | financing<br>The need for short-term |                       | Otiit-1                 |                    |      |           | 21,247,365                     | 42,494,730                              |
|  | Co., Ltd.  | related parties                        | ies                |                                   |                |                     | -                    | financing                            | -                     | Operating capital       | -                  |      | -         |                                |   |
|  | Scitus Luzhou Cement Co., Ltd.                           | Other receivables -                    | Yes                | 858,600                           | 804,589        | =                   | -                    | The need for short-term              | -                     | Operating capital       | -                  |      | -         | 21,247,365                     | 42,494,730                              |
|  | TCC Liaoning Cement Company                              | related parties<br>Other receivables - | Yes                | 224,865                           | 223,497        | 89,399              | 3.48                 | financing<br>The need for short-term | -                     | Operating capital       | -                  |      | -         | 21,247,365                     | 42,494,730                              |
|  | Limited.   | related parties                        |                    | 477,000                           | 446,994        | 138,568             | 2.40                 | financing                            |                       |                         |                    |      |           | 21,247,365                     | 42,494,730                              |
|  | Guizhou Kong On Cement Company<br>Limited.               | Other receivables -<br>related parties | Yes                | 477,000                           | 440,994        | 136,306             | 3.48                 | The need for short-term<br>financing | -                     | Operating capital       | -                  |      | -         | 21,247,303                     | 42,494,730                              |
|  |  | •                                      |                    | 477.000                           | 146 004        |                     |                      |                                      |                       |                         |                    |      |           | 012.706                        | 2 729 259                               |
| 8 TCC Fuzhou Cement Co., Ltd.            | TCC New (Hangzhou) Management<br>Company Limited.        | Other receivables -<br>related parties | Yes                | 477,000                           | 446,994        | -                   | -                    | The need for short-term<br>financing | -                     | Operating capital       | =                  |      | -         | 912,786                        | 2,738,358                               |
|  | TCC Liaoning Cement Company                              | Other receivables -                    | Yes                | 333,900                           | 312,896        | 134,098             | 3.48                 | The need for short-term              | -                     | Operating capital       | =                  |      | -         | 912,786                        | 2,738,358                               |
|  | Limited.<br>Guizhou Kaili Rui An Jian Cai                | related parties<br>Other receivables - | Yes                | 238,500                           | 223,497        | _                   | _                    | financing The need for short-term    | _                     | Operating capital       | _                  |      | _         | 912,786                        | 2,738,358                               |
|  | Co., Ltd.  | related parties                        | 103                |                                   |                |                     | _                    | financing                            | -                     | Operating capital       |                    |      | _         | , , , , , ,                    | _,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| 9 TCCIH                                  | TCC Yingde Cement Co., Ltd.                              | Other receivables -                    | Yes                | 249,093                           | 232,798        | 232,798             | _                    | The need for short-term              | _                     | Operating capital       | -                  |      | -         | 115,379,289                    | 230,758,578                             |
|  | g  | related parties                        |                    |                                   |                |                     |                      | financing                            |                       | -1                      |                    |      |           |                                |   |
| 10 Prime York Ltd.                       | Upper Value Investment Limited                           | Other receivables -                    | Yes                | 201,195                           | 199,971        | 199,971             | -                    | The need for short-term              | -                     | Operating capital       | -                  |      | -         | 2,741,280                      | 5,482,560                               |
|  |  | related parties                        |                    |                                   |                |                     |                      | financing                            |                       |                         |                    |      |           |                                |   |
| 11 Jurong TCC Cement Co., Ltd.           | TCC Huaihua Cement Company                               | Other receivables -                    | Yes                | 1,192,500                         | 1,117,485      | 1,028,086           | 3.48                 | The need for short-term              | -                     | Operating capital       | -                  |      | -         | 12,552,681                     | 25,105,362                              |
|  | Limited<br>TCC Liaoning Cement Company                   | related parties<br>Other receivables - | Yes                | 333,900                           | 312,896        | 290,546             | 3.48                 | financing<br>The need for short-term | _                     | Operating capital       | _                  |      | _         | 12,552,681                     | 25,105,362                              |
|  | Limited.   | related parties                        |                    |                                   |                |                     |                      | financing                            |                       |                         |                    |      |           |                                |   |
|  | Scitus Luzhou Cement Co., Ltd.                           | Other receivables -<br>related parties | Yes                | 715,500                           | 670,491        | 89,399              | 3.48                 | The need for short-term<br>financing | -                     | Operating capital       | -                  |      | -         | 12,552,681                     | 25,105,362                              |
|  | TCC Huaihua Concrete Company                             | Other receivables -                    | Yes                | 143,100                           | 134,098        | 44,699              | 3.48                 | The need for short-term              | -                     | Operating capital       | =                  |      | -         | 12,552,681                     | 25,105,362                              |
|  | Limited<br>TCC Chongqing Cement Company                  | related parties<br>Other receivables - | Yes                | 954,000                           | 893,988        | 312,896             | 3.48                 | financing<br>The need for short-term | _                     | Operating capital       | _                  |      | _         | 12,552,681                     | 25,105,362                              |
|  | Limited.   | related parties                        |                    | 054000                            | 002.000        |                     |                      | financing                            |                       |                         |                    |      |           | 12.552.601                     | 25.105.262                              |
|  | TCC Anshun Cement Company<br>Limited.                    | Other receivables -<br>related parties | Yes                | 954,000                           | 893,988        | -                   | -                    | The need for short-term<br>financing | -                     | Operating capital       | =                  |      | -         | 12,552,681                     | 25,105,362                              |
|  | TCC Yingde Cement Co., Ltd.                              | Other receivables -                    | Yes                | 477,000                           | 446,994        | -                   | -                    | The need for short-term              | -                     | Operating capital       | =                  |      | -         | 12,552,681                     | 25,105,362                              |
|  | TCC Guangan Cement Company                               | related parties<br>Other receivables - | Yes                | 477,000                           | 446,994        | _                   | _                    | financing<br>The need for short-term | _                     | Operating capital       | _                  |      | _         | 12,552,681                     | 25,105,362                              |
|  | Limited.   | related parties                        |                    |                                   |                |                     |                      | financing                            |                       |                         |                    |      |           |                                |   |
|  | Guizhou Kong On Cement Company<br>Limited.               | Other receivables -<br>related parties | Yes                | 333,900                           | 312,896        | =                   | -                    | The need for short-term<br>financing | -                     | Operating capital       | -                  |      | -         | 12,552,681                     | 25,105,362                              |
|  |  |  |                    |                                   |                |                     |                      | - C                                  |                       |                         |                    |      |           |                                |   |
| 12 TCC Anshun Cement Company<br>Limited. | Anshun Xin Tai Construction<br>Materials Company Limited | Other receivables -<br>related parties | Yes                | 95,400                            | 89,399         | -                   | -                    | The need for short-term<br>financing | -                     | Operating capital       | -                  |      | -         | 7,530,274                      | 15,060,548                              |
| Elificu.                                 | Guizhou Kong On Cement Company                           |  | Yes                | 286,200                           | 268,196        | 245,847             | 3.48                 | The need for short-term              | -                     | Operating capital       | -                  |      | -         | 7,530,274                      | 15,060,548                              |
|  | Limited.<br>Scitus Luzhou Cement Co., Ltd.               | related parties<br>Other receivables - | Yes                | 143,100                           | 134,098        | 134,098             | 3.48                 | financing<br>The need for short-term |                       | Operating capital       |                    |      |           | 7,530,274                      | 15,060,548                              |
|  |  | related parties                        |                    |                                   |                | 134,070             | 3.40                 | financing                            | _                     | operating capital       | 1                  |      | _         |                                |   |
|  | Guizhou Kaili Rui An Jian Cai Co.,<br>Ltd.               | Other receivables -<br>related parties | Yes                | 143,100                           | 134,098        | -                   | -                    | The need for short-term<br>financing | -                     | Operating capital       | -                  |      | -         | 7,530,274                      | 15,060,548                              |
|  | Scitus Luzhou Concrete Co., Ltd.                         | Other receivables -                    | Yes                | 143,100                           | 134,098        | -                   | -                    | The need for short-term              | -                     | Operating capital       | -                  |      | -         | 7,530,274                      | 15,060,548                              |
|  | TCC Chongqing Cement Company                             | related parties<br>Other receivables - | Yes                | 477,000                           | 446,994        | 446,994             | 3.48                 | financing<br>The need for short-term |                       | Operating capital       |                    |      |           | 7,530,274                      | 15,060,548                              |
|  | Limited.   | related parties                        | 168                | 477,000                           | 770,774        | 440,234             | 3.48                 | financing                            | _                     | Operating capital       | 1                  |      |           | 1,330,274                      | 15,000,540                              |
| 13 TCC Guangan Cement Co., Ltd.          | Scitus Luzhou Cement Co., Ltd.                           | Other receivables -                    | Yes                | 143,100                           | 134,098        | 134,098             | 3.48                 | The need for short-term              | -                     | Operating capital       | _                  |      | -         | 3,946,039                      | 7,892,078                               |
| Ş, <u></u>                               |  | related parties                        |                    | 95,400                            | 90.200         |                     |                      | financing                            |                       |                         |                    |      |           |                                | 7 902 079                               |
|  | Guizhou Kaili Rui An Jian Cai Co.,<br>Ltd.               |  |                    | 95,400                            | 89,399         | _                   | -                    | The need for short-term<br>financing | -                     | Operating capital       | -                  |      | -         | 3,946,039                      | 7,892,078                               |
| 14 Wayly Holdings Ltd.                   | Guizhou Kaili Rui An Jian Cai Co.,                       | Other receivables -                    | Yes                | 61,865                            | 61,489         | 61,489              |                      | The need for short-term              |                       | Operating capital       |                    |      |           | 3,796,595                      | 7,593,190                               |
| 14 Wayry Holdings Ltd.                   | Ltd.   | related parties                        | 108                | 01,003                            | 01,409         | 01,409              | -                    | financing                            | _                     | Operating capital       | _                  |      | _         | 5,170,595                      | 1,575,170                               |
|  |  | _                                      |                    |                                   |                |                     |                      |                                      |                       |                         |                    |      |           | 1                              | (Continued)                             |

(Continued)

|     |  |   |  |                    |                                   |                | Actual              |                      |   | Business              | Reason for              | Allowance for      | C    | ollateral | Financing Limit                | Aggregate              |
|-----|--|---|--|--------------------|-----------------------------------|----------------|---------------------|----------------------|---|-----------------------|-------------------------|--------------------|------|-----------|--------------------------------|------------------------|
| No. | Lender   | Borrower  | Financial<br>Statement Account         | Related<br>Parties | Highest Balance<br>for the Period | Ending Balance | Borrowing<br>Amount | Interest<br>Rate (%) | Nature of Financing                         | Transaction<br>Amount | Short-term<br>Financing | Impairment<br>Loss | Item | Value     | for Each<br>Borrower<br>(Note) | Financing Limit (Note) |
| 15  | TCC Chongqing Cement<br>Company Limited.               | Guizhou Kaili Rui An Jian Cai<br>Co., Ltd.        | Other receivables -<br>related parties | Yes                | \$ 238,500                        | \$ 223,497     | \$ 44,699           | 3.48                 | The need for short-term financing           | \$ -                  | Operating capital       | \$ -               |      | s -       | \$ 6,857,651                   | \$ 13,715,302          |
|     |  | Scitus Naxi Cement Co., Ltd.                      | Tolated parties                        | Yes                | 143,100                           | 134,098        | 134,098             | 3.48                 | The need for short-term<br>financing        | -                     | Operating capital       | -                  |      | -         | 6,857,651                      | 13,715,302             |
|     |  | TCC Huaihua Cement Company                        |  | Yes                | 715,500                           | 670,491        | 549,356             | 3.48                 | The need for short-term                     | -                     | Operating capital       | -                  |      | -         | 6,857,651                      | 13,715,302             |
|     |  | Limited TCC Huaying Cement Company Limited        |  | Yes                | 119,250                           | 111,749        | =                   | -                    | financing The need for short-term financing | -                     | Operating capital       | -                  |      | -         | 6,857,651                      | 13,715,302             |
|     |  | TCC Guangan Cement Company<br>Limited.            |  | Yes                | 477,000                           | 446,994        | -                   | -                    | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 6,857,651                      | 13,715,302             |
|     |  | Scitus Luzhou Cement Co., Ltd.                    |  | Yes                | 238,500                           | 223,497        | =                   | -                    | The need for short-term<br>financing        | -                     | Operating capital       | -                  |      | -         | 6,857,651                      | 13,715,302             |
|     |  | TCC Jingzhou Cement Company<br>Limited            |  | Yes                | 95,400                            | 89,399         | -                   | -                    | The need for short-term<br>financing        | -                     | Operating capital       | -                  |      | -         | 6,857,651                      | 13,715,302             |
|     |  | Guizhou Kong On Cement Compan<br>Limited.         | Other receivables -<br>related parties | Yes                | 143,100                           | 134,098        | -                   | -                    | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 6,857,651                      | 13,715,302             |
| 16  | TCC New (Hangzhou)  Management Company  Limited.       | Scitus Luzhou Cement Co., Ltd.                    | Other receivables -<br>related parties | Yes                | 295,740                           | 277,136        | 232,437             | 3.48                 | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 603,048                        | 1,206,096              |
|     |  | Scitus Naxi Cement Co., Ltd.                      |  | Yes                | 262,350                           | 245,847        | 196,677             | 3.48                 | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 603,048                        | 1,206,096              |
|     |  | Scitus Luzhou Concrete Co., Ltd.                  |  | Yes                | 38,160                            | 35,760         | -                   | -                    | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 603,048                        | 1,206,096              |
| 17  | Prosperity Minerals (China)<br>Limited                 | TCC New (Hangzhou) Management<br>Company Limited. | Other receivables - related parties    | Yes                | 380,392                           | 356,463        | 356,463             | =                    | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 976,080                        | 1,952,160              |
| 18  | Da Tong (Guigang) International<br>Logistics Co., Ltd. | Guigang Da-Ho Shipping Co., Ltd.                  | Other receivables -<br>related parties | Yes                | 143,100                           | 134,098        | -                   | -                    | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 636,691                        | 1,273,382              |
| 19  | Guizhou Kaili Rui An Jian Cai<br>Co., Ltd.             | Scitus Naxi Cement Co., Ltd.                      | Other receivables -<br>related parties | Yes                | 143,100                           | 134,098        | 134,098             | 3.48                 | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 3,747,453                      | 7,494,906              |
| 20  | TCC Huaihua Cement Company<br>Limited                  | TCC Jingzhou Cement Company<br>Limited            | Other receivables -<br>related parties | Yes                | 95,400                            | 89,399         | -                   | -                    | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 2,697,458                      | 5,394,916              |
| 21  | Scitus Luzhou Cement Co., Ltd.                         | Guizhou Kaili Rui An Jian Cai<br>Co., Ltd.        | Other receivables -<br>related parties | Yes                | 95,400                            | 89,399         | 44,699              | 3.48                 | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 2,508,011                      | 5,016,022              |

Note 1: "Financing Limits for Each Borrower" and "Aggregate Financing Limits":

- A. For Taiwan Cement Corporation, financing limits are as follows:
  - a. Where a business relationship exists, the individual financing limits were the total transaction amounts with the borrower and 20% of Taiwan Cement Corporation's net equity in the recent year.
  - b. Where there is a need for a short-term financing facility, the individual financing limits were 20% of Taiwan Cement Corporation's net equity as stated in its latest financial statements.
  - c. For the above items a and b, the aggregate financing limits were 40% of Taiwan Cement Corporation's net equity as stated in its latest financial statements.
- B. The restrictions above in paragraph A, subparagraphs b and c shall not apply to inter-company loans of funds between foreign companies of which Taiwan Cement Corporation holds, directly or indirectly, 100% of the voting shares. The aggregate and individual financing limits for the companies were 200% and 100%, respectively, of the net equity of each company as stated in their respective latest financial statements. In addition, the aggregate and individual financing limits for TCC International Ltd. were both 40% of its net equity as stated in its latest financial statements. The aggregate and individual financing limits for TCC New (Hangzhou) Management Co., Ltd. were 600% and 300%, respectively, of its net equity as stated in its latest financial statements. The aggregate and individual financing limits for Prosperity Minerals (China) Ltd. were 400% and 200%, respectively, of its net equity as stated in its latest financial statements.
- C. The individual and aggregate financing limits for the other companies were 40% of the net equity of each respective company.
- Note 2: All intercompany transactions have been eliminated upon consolidation.

(Concluded)

ENDORSEMENTS/GUARANTEES PROVIDED FOR THE YEAR ENDED DECEMBER 31, 2018 (In Thousands of New Taiwan Dollars)

|     |                           | Endorsee/Guarante  | e                        |  |   |  |                               |   | Ratio of  |  |  |  |   |      |
|-----|---------------------------|--|--------------------------|--|---|--|-------------------------------|---|---|--|--|--|---|------|
| No. | Endorser/Guarantor        | Name   | Relationship<br>(Note 3) | Limits on<br>Endorsement/<br>Guarantee Given<br>on Behalf of<br>Each Party<br>(Note 1) | Maximum Amount Endorsed/ Guaranteed During the Period | Outstanding<br>Endorsement/<br>Guarantee at the<br>End of the Period | Actual<br>Borrowing<br>Amount | Amount<br>Endorsed/<br>Guaranteed by<br>Collaterals | Accumulated<br>Endorsement/<br>Guarantee to Net<br>Equity in Latest<br>Financial<br>Statements<br>(%) | Aggregate<br>Endorsement/<br>Guarantee Limit<br>(Note 2) | Endorsement/<br>Guarantee Given<br>by Parent on<br>Behalf of<br>Subsidiaries | Endorsement/<br>Guarantee Given<br>by Subsidiaries<br>on Behalf of<br>Parent | Endorsement/<br>Guarantee Given<br>on Behalf of<br>Companies in<br>Mainland China | Note |
| 0   | Taiwan Cement Corporation | TCCI   | b                        | \$ 90,770,755  | \$ 28,902,815   | \$ 27,981,365  | \$ 1,474,320                  | \$ -  | 15.41   | \$ 181,541,510   | Y  | N  | N   |      |
| U   | Taiwan Cement Corporation | TCC Investment Corporation                                       | b                        | 90,770,755   | 2,600,000   | 2,570,000  | 1,470,000                     | ф -<br>-  | 13.41   | 181.541.510  | Y  | N<br>N   | N<br>N  |      |
|     |                           | TCC Investment Corporation TCC Chemical Corporation              | b                        | 90,770,755   | 1,913,000   | 1,493,000  | 760,000                       | -   | 0.82  | 181,541,510  | Y  | N<br>N   | N<br>N  |      |
|     |                           | Union Cement Traders Inc.  | C                        | 90,770,755   | 1,450,000   | 1,420,000  | 690,000                       | -   | 0.82  | 181,541,510  | Y  | N<br>N   | N<br>N  |      |
|     |                           | Jin Chang Minerals Corporation                                   | b                        | 90,770,755   | 68,848  | 68,848   | 39,814                        | 39,814  | 0.78  | 181,541,510  | Y  | N  | N<br>N  |      |
|     |                           | Ho Sheng Mining Co., Ltd.  | b                        | 90,770,755   | 99,884  | 99,884   | 32,014                        | 99.884  | 0.04  | 181,541,510  | Y  | N  | N<br>N  |      |
|     |                           | OYAK CEMENT PORTUGAL   | e                        | 90,770,755   | 3,083,000   | 3,071,500  |                               | 77,004  | 1.69  | 181,541,510  | N N  | N  | N   |      |
|     |                           | S.A.   | 6                        | 70,770,733   | 3,063,000   | 3,071,300  | -                             | _   | 1.09  | 101,541,510  | 11   | 11   | 11  |      |
|     |                           | J.A.   |                          |  |   |  |                               |   |   |  |  |  |   |      |
| 1   | TCCIH                     | TCC (Guigang) Cement Ltd.  | с                        | 57,689,644   | 11,418,475  | 11,418,475   | 844,091                       | -   | 9.90  | 115,379,289  | Y  | N  | Y   |      |
|     |                           | TCC Yingde Cement Co., Ltd.                                      | с                        | 57,689,644   | 2,657,542   | 2,644,802  | 294,180                       | -   | 2.29  | 115,379,289  | Y  | N  | Y   |      |
|     |                           | Jurong TCC Cement Co., Ltd.                                      | с                        | 57,689,644   | 3,045,684   | 3,022,483  | -                             | -   | 2.62  | 115,379,289  | Y  | N  | Y   |      |
|     |                           | TCC Chongqing Cement Company<br>Limited                          | с                        | 57,689,644   | 1,847,678   | 1,835,042  | -                             | -   | 1.59  | 115,379,289  | Y  | N  | Y   |      |
|     |                           | TCC Fuzhou Cement Co., Ltd.                                      | c                        | 57,689,644   | 1,242,630   | 1,188,303  | 44,699                        | -   | 1.03  | 115,379,289  | Y  | N  | Y   |      |
|     |                           | Scitus Luzhou Cement Co., Ltd.                                   | c                        | 57,689,644   | 928,650   | 921,450  | -                             | -   | 0.80  | 115,379,289  | Y  | N  | Y   |      |
|     |                           | TCC Liaoning Cement Company<br>Limited                           | с                        | 57,689,644   | 1,265,580   | 900,854  | -                             | -   | 0.78  | 115,379,289  | Y  | N  | Y   |      |
|     |                           | Guizhou Kaili Rui An Jian Cai<br>Co., Ltd.                       | с                        | 57,689,644   | 619,100   | 614,300  | -                             | -   | 0.53  | 115,379,289  | Y  | N  | Y   |      |
|     |                           | Guizhou Kong On Cement<br>Company Limited                        | с                        | 57,689,644   | 360,096   | 310,222  | -                             | -   | 0.27  | 115,379,289  | Y  | N  | Y   |      |
|     |                           | Baoshan Kungang & K. Wah Cement Construction Materials Co., Ltd. | e                        | 57,689,644   | -   | -  | -                             | -   | -   | 115,379,289  | N  | N  | Y   |      |
|     |                           | TCC Anshun Cement Company<br>Limited                             | с                        | 57,689,644   | 674,595   | 670,491  | -                             | -   | 0.58  | 115,379,289  | Y  | N  | Y   |      |
| 2   | TCC (Guigang) Cement Ltd. | TCCI (HK)  | d                        | 11,203,260   | 685,260   | -  | -                             | -   | -   | 22,406,521   | N  | Y  | N   |      |
| 3   | Ho Sheng Mining Co., Ltd. | Taiwan Cement Corporation  | d                        | 375,351  | 137,462   | 137,462  | 137,462                       | -   | 109.87  | 375,351  | N  | Y  | N   |      |

Note 1: Limits on endorsement/guarantee given on behalf of each party were as follows:

- a. For Taiwan Cement Corporation, TCCIH and TCC (Guigang) Cement Limited, 50% of the net equity as stated in their respective financial statements.
- b. For endorsement/guarantee given by Taiwan Cement Corporation due to business transactions, 50% of the business transaction amounts in the previous year.
- c. For Ho Sheng Mining Co., Ltd., 300% of its net equity as stated in its latest financial statements.

Note 2: Aggregate endorsement/guarantee limit was the net equity in the latest financial statements.

Note 3: Relationship between the endorser/guarantor and the endorsee/guarantee is classified as follows:

- a. Having a business relationship.
- b. The endorser/guarantor owns directly more than 50% of the ordinary shares of the endorsee/guarantee.
- c. The endorser/guarantor and its subsidiaries jointly own more than 50% of the ordinary shares of the endorsee/guarantee.
- d. The endorsee/guarantee directly or indirectly owns more than 90% of the ordinary shares of the endorser/guarantor.
- e. Due to joint venture, each shareholder provides endorsements/guarantees to the endorsee/guarantee in proportion to its ownership.

MARKETABLE SECURITIES HELD DECEMBER 31, 2018 (In Thousands of New Taiwan Dollars)

|  |  |                                       |  |                                | December           | 31, 2018                          |            |                                   |
|--|--|---------------------------------------|--|--------------------------------|--------------------|-----------------------------------|------------|-----------------------------------|
| Holding Company Name                   | Type and Name of Marketable Securities       | Relationship with the Holding Company | Financial Statement Account              | Shares/Units<br>(In Thousands) | Carrying<br>Amount | Percentage of<br>Ownership<br>(%) | Fair Value | Note                              |
| m                                      | 0 "  |                                       |  |                                |                    |                                   |            |                                   |
| Taiwan Cement Corporation              | Ordinary shares                              |                                       |  |                                |                    |                                   |            |                                   |
|  | Chien Kuo Construction Co., Ltd.             | - ·                                   | FVTPL - current                          | 9,403                          | \$ 91,583          | -                                 | \$ 91,583  |                                   |
|  | Taiwan Television Enterprise, Ltd.           | The Corporation serves as supervisor  | FVTPL - current                          | 13,573                         | 85,780             | -                                 | 85,780     |                                   |
|  | Chinatrust Financial Holding Co., Ltd.       | - I'                                  | FVTPL - current                          | 3,576                          | 72,227             | -                                 | 72,227     |                                   |
|  | China Hi-Ment Corporation                    | The Corporation serves as director    | FVTOCI - current                         | 30,196                         | 1,512,828          | -                                 | 1,512,,828 |                                   |
|  | Taishin Financial Holding Co., Ltd.          | -                                     | FVTOCI - current                         | 61,149                         | 797,993            | -                                 | 797.993    |                                   |
|  | CTCI Corporation                             |                                       | FVTOCI - current                         | 9,054                          | 402,013            | -                                 | 402,013    |                                   |
|  | Chia Hsin Cement Corporation                 | Directors                             | FVTOCI - current                         | 27,419                         | 372,904            | -                                 | 372,904    |                                   |
|  | O-Bank                                       | The Corporation serves as director    | FVTOCI - current                         | 29,719                         | 237,752            | -                                 | 237,752    |                                   |
|  | IBT II Venture Capital Corporation           | -                                     | FVTOCI - non-current                     | 2,626                          | 19,093             | 8.3                               | 19,093     |                                   |
|  | Rong Gong Enterprise Co.                     | The Corporation serves as supervisor  | FVTOCI - non-current                     | 3,390                          | 12,306             | 4.0                               | 12,306     |                                   |
|  | Chinatrust Investment Co., Ltd.              | The Corporation serves as director    | FVTOCI - non-current                     | 29,553                         | 972,871            | 9.4                               | 972,871    |                                   |
|  | Pan Asia Corporation                         | The Corporation serves as supervisor  | FVTOCI - non-current                     | 6,204                          | 8,996              | 5.4                               | 8,996      |                                   |
|  | Taiwan Stock Exchange Corporation            | The Corporation serves as director    | FVTOCI - non-current                     | 45,983                         | 3,371,909          | 6.6                               | 3,371,909  |                                   |
|  | Excel Corporation                            | -                                     | FVTOCI - non-current                     | 600                            | -                  | 9.5                               | -          |                                   |
|  | Preference shares O-Bank                     | The Corporation serves as director    | FVTOCI - current                         | 2,956                          | 29,559             | _                                 | 29,559     |                                   |
|  |  | The Corporation serves as director    | 1 V TOCT - Current                       | 2,930                          | 29,339             | -                                 | 29,339     |                                   |
| Taiwan Transport & Storage Corporation | Ordinary shares Chia Hsin Cement Corporation | Director of parent company            | FVTOCI - current                         | 8,632                          | 117,389            | -                                 | 117,389    |                                   |
| TCC Investment Corporation             | Ordinary shares<br>O-Bank                    | The Corporation serves as director    | FVTOCI - current                         | 21,934                         | 174,471            | -                                 | 174,471    | 21,000<br>thousand<br>shares were |
|  |  |                                       |  |                                |                    |                                   |            | pledged                           |
|  | Taishin Financial Holding Co., Ltd.          | -                                     | FVTOCI - current                         | 11,697                         | 152,650            | -                                 | 152,650    |                                   |
|  | Chia Hsin Cement Corporation                 | Director of parent company            | FVTOCI - current                         | 8,334                          | 113,341            | -                                 | 113,341    | 7,000 thousand<br>shares were     |
|  | China Canah Vantura Haldinga Limitad         |                                       | FVTOCI - non-current                     | 28,000                         | 2 550 070          |                                   | 2 550 060  | pledged                           |
|  | China Conch Venture Holdings Limited         | - I'                                  |  | 28,000                         | 2,558,060          | - 2.5                             | 2,558,060  |                                   |
|  | Chinatrust Investment Co., Ltd.              | The Corporation serves as director    | FVTOCI - non-current                     | 10,884                         | 358,297            | 3.5                               | 358,297    |                                   |
|  | Pan Asia Corporation                         | The Corporation serves as supervisor  | FVTOCI - non-current                     | 1                              | 14                 | -                                 | 14         |                                   |
| TCC Investment Corporation             | Preference shares O-Bank                     | The Corporation serves as director    | FVTOCI -current                          | 2,182                          | 21,816             | -                                 | 21,816     |                                   |
| Ta-Ho Maritime Corporation             | Ordinary shares                              |                                       |  |                                |                    |                                   |            |                                   |
| Ta 110 Martine Corporation             | Prosperity Dielectrics Co., Ltd.             |                                       | FVTPL - current                          | 951                            | 56,977             |                                   | 56,977     |                                   |
|  | Chia Hsin Cement Corporation                 | Director of parent company            | FVTOCI - current                         | 25,761                         | 350,353            | -                                 | 350,353    |                                   |
|  | Chinatrust Investment Co., Ltd.              | The Corporation serves as director    | FVTOCI - current<br>FVTOCI - non-current | 6,612                          | 217,656            | 2.1                               | 217,656    |                                   |
|  | Cinnatiust investment Co., Ltd.              | The Corporation serves as director    | 1 v 10C1 - Holl-Cultent                  | 0,012                          | 217,030            | 2.1                               | 217,030    |                                   |

(Continued)

|  |   |   |   |                                    | December                                 | 31, 2018                          |  |      |
|--|---|---|---|------------------------------------|--|-----------------------------------|--|------|
| Holding Company Name                   | Type and Name of Marketable Securities  | Relationship with the Holding Company     | Financial Statement Account   | Shares/Units<br>(In Thousands)     | Carrying<br>Amount                       | Percentage of<br>Ownership<br>(%) | Fair Value                               | Note |
| Taiwan Cement Engineering Corporation  | Beneficiary certificates Capital Money Market Fund  | -   | FVTPL - current   | 2,930                              | \$ 47,203                                | -                                 | \$ 47,203                                |      |
| TCC Chemical Corporation               | Ordinary shares Taiwan Stock Exchange Corporation   | The Corporation serves as director        | FVTOCI - non-current  | 2,626                              | 192,538                                  | -                                 | 192,538                                  |      |
| TCC Information Systems Corporation    | Beneficiary certificates<br>Yuanta De- Bao Money Market Fund<br>Fuh Hwa You Li Money Market   | -<br>-                                    | FVTPL - current<br>FVTPL - current                                      | 2,575<br>2,288                     | 30,897<br>30,897                         | -                                 | 30,897<br>30,897                         |      |
| Taiwan Prosperity Chemical Corporation | Ordinary shares Taishin Financial Holding Co., Ltd.   | -   | FVTOCI - current  | 76,863                             | 1,003,067                                | -                                 | 1,003,067                                |      |
| Hoping Industrial Port Corporation     | Shares<br>Chinatrust Investment Co., Ltd.   | The Corporation serves as director        | FVTOCI - non-current  | 10,444                             | 343,807                                  | 3.3                               | 343,807                                  |      |
| E.G.C. Cement Corporation              | Beneficiary certificates Nomura Global Short Duration Bond Fund Nomura Taiwan Money Market UPAMC James Bond Money Market Fund Tai Shin 1699 Money Market Fund | -<br>-<br>-<br>-                          | FVTPL - current FVTPL - current FVTPL - current FVTPL - current         | 2,367<br>2,467<br>1,205<br>742     | 24,095<br>40,201<br>20,107<br>10,026     | -<br>-<br>-                       | 24,095<br>40,201<br>20,107<br>10,026     |      |
|  | Shares Der Pao Construction Co., Ltd.   | -   | FVTPL - current   | 30                                 | -  | 0.1                               | -  |      |
| Union Cement Traders Inc.              | Shares Taishin Financial Holding Co., Ltd. CTCI Corporation Chia Hsin Cement Corporation Videoland Inc.   | -<br>-<br>Director of parent company<br>- | FVTOCI - current FVTOCI - current FVTOCI - current FVTOCI - non-current | 27,012<br>13,365<br>7,441<br>6,437 | 352,506<br>593,420<br>101,197<br>368,223 | -<br>-<br>-<br>5.6                | 352,506<br>593,420<br>101,197<br>368,223 |      |
| TCCI (Group)                           | Beneficiary certificates Mega Diamond Money Market Fund   | -   | FVTPL - current   | 3,130                              | 39,955                                   | -                                 | 39,955                                   |      |
|  | Shares<br>Anhui Conch Cement Co., Ltd.<br>Yargoon Co., Ltd.   |   | FVTOCI - non-current<br>FVTOCI - non-current                            | 116,568<br>19                      | 17,368,399                               | 12.5                              | 17,368,399                               |      |

Note 1: Marketable securities in the table refer to shares, bonds, beneficiary certificates and other related securities within the scope of IFRS 9 "Financial Instruments".

(Concluded)

Note 2: See Tables 8 and 9 for the information of investments in subsidiaries, associates and joint ventures.

MARKETABLE SECURITIES ACQUIRED AND DISPOSED OF AT COSTS OR PRICES OF AT LEAST NT\$300 MILLION OR 20% OF THE SHARE CAPITAL FOR THE YEAR ENDED DECEMBER 31, 2018

(In Thousands of New Taiwan Dollars)

|                 | Type and Name of                                       |  |              |              | Beginning                      | g Balance  | Acqui                          | isition    |                                | Disp    | osal               |                                      | Other                  | Ending I                       | Balance    |
|-----------------|--|--|--------------|--------------|--------------------------------|------------|--------------------------------|------------|--------------------------------|---------|--------------------|--------------------------------------|------------------------|--------------------------------|------------|
| Company<br>Name | Marketable<br>Securities                               | Financial Statement<br>Account                                   | Counterparty | Relationship | Shares/Units<br>(In Thousands) | Amount     | Shares/Units<br>(In Thousands) | Amount     | Shares/Units<br>(In Thousands) | Amount  | Carrying<br>Amount | Gain/Loss on<br>Disposal<br>(Note 4) | Adjustment<br>(Note 1) | Shares/Units<br>(In Thousands) | Amount     |
| Taiwan Cement   | Charas   |  |              |              |                                |            |                                |            |                                |         |                    |                                      |                        |                                |            |
| Corporation     |  | Investments accounted<br>for using the equity<br>method (Note 3) | -            | Associates   | 983                            | \$ 1,670   | 47,535                         | \$ 475,352 | 391<br>(Note 2)                | \$ -    | \$ -               | \$ -                                 | \$ 46,175              | 48,127                         | \$ 523,197 |
|                 | Taiwan Prosperity<br>Chemical<br>Corporation           | Investments accounted for using the equity method                | -            | Subsidiaries | 145,988                        | 1,608,901  | -                              | -          | 29,197                         | 787,369 | 321,659            | 465,710                              | 126,067                | 116,791                        | 1,413,309  |
|                 | TCC Green Energy<br>Corporation                        | Investments accounted<br>for using the equity<br>method          | -            | Subsidiaries | 10,000                         | 179,619    | 140,899                        | 1,400,000  | -                              | -       | -                  | -                                    | (50,286)               | 150,899                        | 1,529,333  |
|                 | International CSRC<br>Investment<br>Holdings Co., Ltd. | Investments accounted<br>for using the equity<br>method (Note 3) | -            | Associates   | 55,180                         | 2,419,650  | 80,640                         | 2,854,637  | -                              | -       | -                  | -                                    | (234,001)              | 135,820                        | 5,040,286  |
|                 | TCCI   | Investments accounted for using the equity method                | -            | Subsidiaries | 600,876                        | 60,108,134 | 500,000                        | 15,430,125 | -                              | -       | -                  | -                                    | 10,329,268             | 1,100,876                      | 85,867,527 |
|                 | TCCIH  | Investments accounted<br>for using the equity<br>method          | -            | Subsidiaries | 1,319,841                      | 19,054,259 | 1,261,991                      | 21,576,350 | -                              | -       | -                  | -                                    | 3,536,583              | 2,581,832                      | 44,167,192 |
|                 | CCC USA Corp.  | Investments accounted for using the equity method                | -            | Associates   | 39                             | 694,072    | 40                             | 802,438    | -                              | -       | -                  | -                                    | 128,934                | 79                             | 1,625,444  |
|                 | Taiwan Cement<br>Dutch                                 | Investments accounted for using the equity method                | -            | Subsidiaries | -                              | -          | 831                            | 29,470,972 | -                              | -       | -                  | -                                    | 509                    | 831                            | 29,471,481 |

Note 1: Including share of profit or loss of subsidiaries, equity adjustments, etc.

Note 2: The shares of capital reduction handled by E-ONE Moli Energy Corporation.

Note 3: The original investments previously recognized as financial assets at FVTOCI, refer to Note 8 for information related to acquiring shares of E-ONE Moli Energy Corporation.

Note 4: The capital surplus recorded is the difference between the purchase price and the carrying amount on the date on which the subsidiaries are acquired or disposed of.

ACQUISITION OF INDIVIDUAL REAL ESTATE AT COSTS OF AT LEAST NT\$300 MILLION OR 20% OF THE PAID-IN CAPITAL FOR THE YEAR ENDED DECEMBER 31, 2018 (In Thousands of New Taiwan Dollars)

| Ruyor                        | Droporty  | Event Date | Transaction | Payment Status                      | Counterparty  | Relationship | Information on Pro | evious Title Trans | fer If Counterparty l | s A Related Par | ty Pricing Reference   | Purpose of                | Other Terms |
|------------------------------|---|------------|-------------|-------------------------------------|---|--------------|--------------------|--------------------|-----------------------|-----------------|--|---------------------------|-------------|
| Buyer                        | Property  | Event Date | Amount      | rayment status                      | Counterparty  | Relationship | Property Owner     | Relationship       | Transaction Date      | Amount          | Fricing Reference  | Acquisition               | Other Terms |
| Taiwan Cement<br>Corporation | Ready mixed concrete plant<br>and its land in Hsinchu | 2018.12.14 | \$ 541,621  | By negotiation and paid in progress | Land:Individual Plant construction: Jia-Yu Industrial Corporation Limited, Liang-Bang Construction Material Corporation |              | -                  | -                  | -                     | \$ -            | Negotiate<br>according to the<br>appraised result<br>made by<br>Visionary Real<br>Estate Appraiser<br>Office | Expand operating position | None        |

# TOTAL PURCHASES FROM OR SALES TO RELATED PARTIES AMOUNTING TO AT LEAST NT\$100 MILLION OR 20% OF THE SHARE CAPITAL FOR THE YEAR ENDED DECEMBER 31, 2018 (In Thousands of New Taiwan Dollars)

| n.   | D.L. ID.                                     | D.L.C. L.                          |                 | Transac      | ction Details |  | Abnormal   | Transaction   | ion Notes/Accounts (Payab) |                      |          |
|--|--|------------------------------------|-----------------|--------------|---------------|--|------------|---------------|----------------------------|----------------------|----------|
| Buyer  | Related Party                                | Relationship                       | Purchases/Sales | Amount       | % of Total    | Payment Terms                              | Unit Price | Payment Terms | Ending Balance             | % of Total<br>(Note) | Note     |
| Taiwan Cement Corporation                    | Chia Hsin Cement Corporation                 | Director of the Corporation        | Sales           | \$ (429,044) | (3)           | 65 days after the day delivery was made    | \$ -       | -             | \$ 112,833                 | 24                   |          |
|  | HKCCL  | Subsidiary                         | Sales           | (157,211)    | (1)           | 65 days after the day shipment was made    | -          | -             | 21,744                     | 5                    | (Note 2) |
|  | Feng Shang Enterprise<br>Company Limited     | Subsidiary                         | Sales           | (353,749)    | (2)           | 30 days                                    | -          | -             | 96,635                     | 20                   | (Note 2) |
|  | 1 ,  |                                    | Purchases       | 296,517      | 2             | 30 days                                    | -          | -             | (22,564)                   | (3)                  | (Note 2) |
|  | TCCIH  | Subsidiary                         | Service revenue | (505,401)    | (3)           | By contract                                | -          | -             | 41,849                     | 9                    | (Note 2) |
|  | Taiwan Transport & Storage<br>Corporation    | Subsidiary                         | Purchases       | 525,587      | 3             | 30 days                                    | -          | -             | (106,040)                  | (12)                 | (Note 2) |
|  | China Hi-Ment Corporation                    | The Corporation serves as director | Purchases       | 523,764      | 3             | 60 days                                    | -          | -             | (164,614)                  | (19)                 |          |
|  |  |                                    | Sales           | (137,273)    | (1)           | 60 days                                    | -          | -             | 32,481                     | 7                    |          |
|  | Hoping Industrial Port<br>Corporation        | Subsidiary                         | Purchases       | 447,052      | 3             | 20 days                                    | -          | -             | (8,299)                    | (1)                  | (Note 2) |
|  | Ta-Ho Maritime Corporation                   | Subsidiary                         | Purchases       | 1,042,947    | 7             | 30 days                                    | -          | -             | (372,490)                  | (42)                 | (Note 2) |
|  | Kuan-Ho Refractories Industry<br>Corporation | Subsidiary                         | Purchases       | 231,370      | 1             | By contract                                | -          | -             | (111,417)                  | (13)                 | (Note 2) |
|  | E.G.C. Cement Corporation                    | Subsidiary                         | Sales           | (401,471)    | (2)           | 50 days after the day delivery was made    | -          | -             | 106,653                    | 23                   | (Note 2) |
|  | Jin Chang Minerals Corporation               | Subsidiary                         | Purchases       | 589,037      | 4             | 30 days                                    | -          | -             | (147,517)                  | (17)                 | (Note 2) |
|  | Ho Sheng Mining Co., Ltd.                    | Subsidiary                         | Purchases       | 407,375      | 3             | 30 days                                    | -          | -             | (32,292)                   | (4)                  | (Note 2) |
| Jin Chang Minerals<br>Corporation            | Taiwan Cement Corporation                    | Parent company                     | Sales           | (589,037)    | (100)         | 30 days                                    | -          | -             | 147,517                    | 100                  | (Note 2) |
| Ho Sheng Mining Co., Ltd.                    | Taiwan Cement Corporation                    | Parent company                     | Sales           | (407,375)    | (87)          | 30 days                                    | -          | -             | 32,292                     | 72                   | (Note 2) |
| Kuan-Ho Refractories Industry<br>Corporation | Taiwan Cement Corporation                    | Parent company                     | Sales           | (231,370)    | (17)          | By contract                                | -          | -             | 111,417                    | 89                   | (Note 2) |
| E.G.C. Cement Corporation                    | Taiwan Cement Corporation                    | Parent company                     | Purchases       | 401,471      | 100           | 50 days after the day<br>delivery was made | -          | -             | (106,653)                  | (99)                 | (Note 2) |

(Continued)

| Duvon                                     | Doloted Douts  | Plated Party Relationship Transaction    |                                  | ction Details          |              | Abnormal   | Transaction | Receivable<br>le) | Note               |                      |                      |
|---|--|--|----------------------------------|------------------------|--------------|--|-------------|-------------------|--------------------|----------------------|----------------------|
| Buyer                                     | Related Party  | Keiationsnip                             | Purchases/Sales                  | Amount                 | % of Total   | Payment Terms  | Unit Price  | Payment Terms     | Ending Balance     | % of Total<br>(Note) | Note                 |
| Ho-Ping Power Company                     | Hoping Industrial Port Corporation                       | The same parent company                  | Purchases                        | \$ 1,083,627           | 12           | 20 days  | \$ -        | -                 | \$ (56,617)        | (26)                 | (Note 2)             |
|   | HPC Power Service<br>Corporation                         | The same parent company                  | Purchases                        | 417,256                | 5            | By contract  | -           | -                 | (112,126)          | (52)                 | (Note 2)             |
| Hoping Industrial Port                    | Ho-Ping Power Company                                    | The same parent company                  | Sales                            | (1,083,627)            | (70)         | 20 days  | -           | -                 | 56,617             | 63                   | (Note 2)             |
| Corporation                               | *  | Parent company The same parent company   | Sales<br>Purchases               | (447,052)<br>190,256   | (29)<br>79   | 20 days<br>30 days   | -           | -                 | 8,299<br>(16,333)  | 9<br>(84)            | (Note 2)<br>(Note 2) |
| Feng Shang Enterprise<br>Company Limited  | Taiwan Cement Corporation                                | Parent company                           | Sales<br>Purchases               | (296,517)<br>353,749   | (13)<br>16   | 30 days<br>30 days   | -           | -                 | 22,564<br>(96,635) | 100<br>(100)         | (Note 2)<br>(Note 2) |
| Taiwan Transport & Storage<br>Corporation | *  | Parent company The same parent company   | Sales<br>Sales                   | (525,587)<br>(199,170) | (42)<br>(16) | 30 days<br>By contract                                       | -           | -                 | 106,040<br>32,623  | 62<br>19             | (Note 2)<br>(Note 2) |
|   | Hoping Industrial Port Corporation                       | The same parent company                  | Sales                            | (190,256)              | (15)         | 30 days  | -           | -                 | 16,333             | 10                   | (Note 2)             |
|   | International CSRC Investment<br>Holdings Co., Ltd.      | The same chairman                        | Sales                            | (85,651)               | (7)          | 30 days  |             | -                 | -                  | -                    |                      |
| Taiwan Prosperity Chemical<br>Corporation | Taiwan Transport & Storage<br>Corporation                | The same parent company                  | Purchases                        | 199,170                | 1            | By contract  | -           | -                 | (32,623)           | (29)                 | (Note 2)             |
| HPC Power Service<br>Corporation          | Ho-Ping Power Company                                    | The same parent company                  | Sales                            | (417,256)              | (100)        | By contract  | -           | -                 | 112,126            | 100                  | (Note 2)             |
| Ta-Ho Maritime Corporation                |  | Parent company                           | Freight revenue                  | (1,042,947)            | (35)         | 30 days  | -           | -                 | 372,490            | 100                  | (Note 2)             |
| THC International S.A                     |  | Subsidiary<br>Parent company             | Rental expense<br>Rental revenue | 228,345<br>(228,345)   | 9<br>(100)   | By negotiation<br>By negotiation                             | -           | -                 | (45,842)<br>45,842 | (57)<br>100          | (Note 2)<br>(Note 2) |
| HKCCL                                     | Quon Hing Concrete. Ltd.<br>Taiwan Cement Corporation    | Associates<br>Parent company             | Sales<br>Purchases               | (199,579)<br>157,211   | (37)<br>37   | By negotiation<br>65 days after the day<br>shipment was made |             | -                 | 34,651<br>(21,744) | 43<br>(59)           | (Note 2)<br>(Note 2) |
| TCC (Guigang) Cement Ltd.                 | Guigang Da-Ho Shipping Co.,                              | *  | Purchases                        | 305,348                | 4            | By negotiation   | -           | -                 | (51,517)           | (17)                 | (Note 2)<br>(Note 2) |
|   | Ltd. Da Tong (Guigang) International Logistics Co., Ltd. | company The same ultimate parent company | Purchases                        | 353,012                | 4            | By negotiation   |             | -                 | (86,978)           | (29)                 | (Note 2)             |
| TCC Yingde Cement Co., Ltd.               | Guigang Da-Ho Shipping Co.,<br>Ltd.                      | The same ultimate parent company         | Purchases                        | 252,008                | 3            | By negotiation   | -           | -                 | (57,548)           | (19)                 | (Note 2)             |

(Continued)

| Payron  | Related Party                              | Relationship                     |                 | Transac      | ction Details |                | Abnormal ' | Fransaction   | Notes/Accounts<br>(Payab |                      | Note     |
|---|--|----------------------------------|-----------------|--------------|---------------|----------------|------------|---------------|--------------------------|----------------------|----------|
| Buyer   | Related Party                              | Relationship                     | Purchases/Sales | Amount       | % of Total    | Payment Terms  | Unit Price | Payment Terms | <b>Ending Balance</b>    | % of Total<br>(Note) | Note     |
| Da Tong (Guigang)<br>International Logistics Co.,<br>Ltd. | TCC (Guigang) Cement<br>Limited            | The same ultimate parent company | Freight revenue | \$ (353,012) | (94)          | By negotiation | \$ -       | -             | \$ 86,978                | 100                  | (Note 2) |
| Guigang Da-Ho Shipping Co.,<br>Ltd.                       | TCC (Guigang) Cement Ltd.                  | The same ultimate parent company | Freight revenue | (305,348)    | (30)          | By negotiation | -          | -             | 51,517                   | 44                   | (Note 2) |
|   | TCC Yingde Cement Co., Ltd.                |                                  | Freight revenue | (252,008)    | (25)          | By negotiation | -          | -             | 57,548                   | 49                   | (Note 2) |
| TCCIH   | Taiwan Cement Corporation                  | Parent company                   | Service expense | 505,401      | 100           | By contract    | -          | -             | (41,849)                 | (100)                | (Note 2) |
| Yingde Dragon Mountain<br>Cement Co., Ltd.                | Prosperity Conch Cement<br>Company Limited | Associates                       | Purchases       | 128,951      | 3             | By negotiation | -          | -             | (10,590)                 | (5)                  | (Note 2) |

Note 1: The percentage to total accounts receivable from (payable to) related parties.

Note 2: All intercompany transactions have been eliminated upon consolidation.

(Concluded)

# RECEIVABLES FROM RELATED PARTIES AMOUNTING TO AT LEAST NT\$100 MILLION OR 20% OF THE SHARE CAPITAL DECEMBER 31, 2018 (In Thousands of New Taiwan Dollars)

|  |                                     |   |                       | Turnover    | (      | Overdue                  | Amount                              | Allowance for      |
|--|-------------------------------------|---|-----------------------|-------------|--------|--------------------------|-------------------------------------|--------------------|
| Company Name                                 | Related Party                       | Relationship                                | <b>Ending Balance</b> | Rate<br>(%) | Amount | Action Taken             | Received in<br>Subsequent<br>Period | Impairment<br>Loss |
| Ta-Ho Maritime Corporation                   | Taiwan Cement Corporation (Note)    | Parent company                              | \$ 372,490            | 3.9         | \$ -   | -                        | \$ 266,949                          | \$ -               |
| Jin Chang Minerals Corporation               | Taiwan Cement Corporation (Note)    | Parent company                              | 147,517               | 4.3         | -      | -                        | 137,476                             | -                  |
| Taiwan Cement Corporation                    | Chia Hsin Cement Corporation (Note) | Substantial relationship between management | 112,833               | 1.3         | -      | -                        | 122,833                             | -                  |
| HPC Power Service Corporation                | Ho-Ping Power Company (Note)        | The same parent company                     | 112,126               | 3.8         | -      | -                        | 112,126                             | -                  |
| Kuan-Ho Refractories Industry<br>Corporation | Taiwan Cement Corporation (Note)    | Parent company                              | 111,417               | 1.9         | 20,726 | Expect withdraw in April | 55,986                              | -                  |
| Taiwan Cement Corporation                    | E.G.C. Cement Corporation (Note)    | Parent company                              | 106,653               | 4.2         | -      | -                        | 106,653                             | -                  |
| Taiwan Transport & Storage Corporation       | Taiwan Cement Corporation (Note)    | Parent company                              | 106,040               | 5.4         | -      | -                        | 61,847                              | -                  |

Note: All intercompany transactions have been eliminated upon consolidation.

INFORMATION ON INVESTEES FOR THE YEAR ENDED DECEMBER 31, 2018 (In Thousands of New Taiwan Dollars)

|                            |   |                        |   | Original Inves | stment Amount | As of          | December 31 | 1, 2018       | Net Income        | Share of Profit                         |              |
|----------------------------|---|------------------------|---|----------------|---------------|----------------|-------------|---------------|-------------------|---|--------------|
| Investor Company           | Investee Company                                    | Location               | Main Businesses and Products                            | December 31,   | December 31,  | Shares/Units   | %           | Carrying      | (Loss) of the     | (Loss)                                  | Note         |
|                            |   |                        |   | 2018           | 2017          | (In Thousands) | 70          | Amount        | Investee          | (Loss)                                  |              |
| Taiwan Cement Corporation  | TCCI  | British Virgin Islands | Investment holding                                      | \$ 33,774,761  | \$ 18,344,635 | 1,100,876      | 100.00      | \$ 85,867,527 | \$ 12,153,185     | \$ 12,153,185                           | Note         |
| Taiwan Cement Corporation  | Ho-Ping Power Company                               | Taiwan                 | Thermal power generation                                | 6,037,720      | 6,037,720     | 805,940        | 59.50       | 17,059,967    | 2,390,778         | 1,422,513                               | Note         |
|                            | Hoping Industrial Port Corporation                  | Taiwan                 | Hoping Industrial Port management                       | 3,198,500      | 3,198,500     | 319,990        | 100.00      | 5,658,439     | 740,169           | 740,147                                 | Note         |
|                            | Ta-Ho Maritime Corporation                          | Taiwan                 | Marine transportation                                   | 528,506        | 528,506       |                |             |               | 336,164           | 217,792                                 | Note         |
|                            |   |                        |   |                |               | 118,649        | 64.79       | 2,296,422     |                   |   |              |
|                            | Taiwan Prosperity Chemical Corporation              | Taiwan                 | Processing and sale of chemical material                | 992,173        | 1,284,143     | 116,791        | 40.00       | 1,413,309     | 332,064           | 153,298                                 | Note         |
|                            | Taiwan Transport & Storage Corporation              | Taiwan                 | Warehousing, transportation and sale of sand and gravel | 90,862         | 90,862        | 32,668         | 83.85       | 1,815,949     | 161,612           | 135,505                                 | Note         |
|                            | TCC Investment Corporation                          | Taiwan                 | Investment  | 190,000        | 190,000       | 63,150         | 100.00      | 3,099,705     | 207,697           | 207,697                                 | Note         |
|                            | Ho Sheng Mining Co., Ltd.                           | Taiwan                 | Mining excavation                                       | 1,414,358      | 1,414,358     | 30,100         | 100.00      | 1,069,417     | 55,392            | 55,392                                  | Note         |
|                            | CCC USA Corp.                                       | U.S.A.                 | Rubber raw materials                                    | 1,284,421      | 481,983       | 79             | 33.33       | 1,625,444     | 310,116           | 103,372                                 |              |
|                            | Taiwan Cement Engineering Corporation               | Taiwan                 | Engineering services                                    | 319,439        | 319,439       | 59,593         | 99.05       | 710,129       | 11,506            | 12,778                                  | Note         |
|                            | Kuan-Ho Construction & Development<br>Corporation   | Taiwan                 | Construction and lease services                         | -              | 248,963       | -              | -           | -             | -                 | -                                       | Note         |
|                            | ONYX Ta-Ho Environmental Services Co., Ltd.         | Taiwan                 | Waste collection and treatment                          | 72,000         | 72,000        | 30,176         | 50.00       | 786,226       | 658,855           | 329,427                                 |              |
|                            | Kuan-Ho Refractories Industry Corporation           | Taiwan                 | Production and sale of refractory materials             | 181,050        | 181,050       | 18,105         | 95.29       | 453,906       | 123,697           | 117,870                                 | Note         |
|                            | Feng Sheng Enterprise Company Limited               | Taiwan                 | Sale of ready-mixed concrete                            | 250,000        | 250,000       | 27,261         | 45.43       | 348,471       | 36,546            | 16,604                                  | Note         |
|                            | TCC Chemical Corporation                            | Taiwan                 | Leasing property and energy technology services         | 1,510,842      | 1,510,842     | 240,000        | 100.00      | 942,433       | 41,272            | 75,555                                  | Note         |
|                            | Ta-Ho Taitung Environment Co., Ltd.                 | Taiwan                 | Waste collection and treatment                          | 313,187        | 313,187       | 37,100         | 100.00      | 297,188       | 859               | 859                                     | Note         |
|                            | TCC Information Systems Corporation                 | Taiwan                 | Information software design                             | 71,000         | 71,000        | 14,904         | 99.36       | 251,946       | 9.042             | 8,985                                   | Note         |
|                            | Ta-Ho RSEA Environment Co., Ltd.                    | Taiwan                 | Waste collection and treatment                          | 666,000        | 666,000       | 66,600         | 66.60       | 200,431       | (10,004)          | (6,663)                                 | Note         |
|                            | HKCMCL  | Hong Kong              | Investment holding                                      | 72,005         | 72,005        | 38             | 84.65       | 323,022       | 42,622            | 36,081                                  | Note         |
|                            | TCC Green Energy Corporation                        | Taiwan                 | Renewable energy generation                             | 1,446,046      | 46,046        | 150,899        | 100.00      | 1,529,333     | (50,286)          | (50,286)                                | Note         |
|                            | Jin Chang Minerals Corporation                      | Taiwan                 | Afforestation and sale of limestone                     | 18,042         | 18,042        | 1,800          | 100.00      | 220,012       | 90,475            | 90,475                                  | Note         |
|                            | HPC Power Service Corporation                       | Taiwan                 | Business consulting                                     | 1,861          | 1,861         | 6              | 60.00       | 114,457       | 185,738           | 111,443                                 | Note         |
|                            | E.G.C. Cement Corporation                           | Taiwan                 | Sale of cement  | 184,359        | 184,359       | 8.063          | 50.64       | 103,579       | 10,872            | 5,506                                   | Note         |
|                            | Synpac Ltd.   | British Virgin Islands | Investment  | 70,367         | 70,367        | 2,700          | 25.00       | 6,991         | 311               | 78                                      | 11010        |
|                            | Tung Chen Mineral Corporation                       | Taiwan                 | Afforestation and sale of limestone                     | 1,989          | 1,989         | 20             | 99.45       | 1,352         | (42)              | (42)                                    | Note         |
|                            | TMC   | Philippines            | Mining excavation                                       | 11,880         | 11.880        | 120            | 72.70       | 1,332         | (42)              | (42)                                    | Note         |
|                            | TPMC  | Philippines            | Mining excavation                                       | 2,105          | 2,105         | 20             | 40.00       | -             | -                 | _                                       | Note         |
|                            | TCCIH   | Cayman Islands         | Investment holding                                      | 40,701,671     | 19.125.321    | 2.581.832      | 38.28       | 44.167.192    | 18,488,071        | 5.090,948                               | Note         |
|                            | E-ONE Moli Energy Corporation                       | Taiwan                 | Manufacture and sale of lithium battery                 | 481,811        | 19,123,321    | 48,127         | 15.97       | 523,197       | 325,906           | 51,909                                  | Note         |
|                            | International CSRC Investment Holdings Co.,         | Taiwan                 | Investment  | 3,563,397      | 708,760       | 135,820        | 15.59       | 5,040,286     | 2,994,196         | 56,168                                  |              |
|                            | Ltd. Taiwan Cement Dutch                            | Nathanian da           | Yanna dan and haldin a                                  | 29,470,972     |               | 831            | 100.00      | 20 471 481    | (2.754)           | (2.754)                                 | N-4-         |
|                            | Taiwan Cement Dutch                                 | Netherlands            | Investment holding                                      | 29,470,972     | -             | 831            | 100.00      | 29,471,481    | (2,754)           | (2,754)                                 | Note<br>Note |
| Taiwan Transport & Storage | Ta-Ho Maritime Corporation                          | Taiwan                 | Marine transportation                                   | 300,507        | 247,229       | 53,438         | 29.18       | 1,034,271     | 336,164           | 98,664                                  | Note         |
| Corporation                | E.G.C. Cement Corporation                           | Taiwan                 | Sale of cement  | 136,476        | 126,518       | 7,857          | 49.36       | 130,324       | 10,872            | 4,993                                   | Note         |
|                            | Chia Huan Tung Cement Corporation                   | Taiwan                 | Manufacturing and sale of cement-related products       | 87,463         | 97,181        | 8,746          | 12.74       | 16,855        | (62,793)          | (8,001)                                 |              |
|                            | Ho Swen Construction Material Co., Ltd.             | Taiwan                 | Sand and gravel filtering and sale                      | 10,200         | 10,200        | 1,020          | 51.00       | -             | (101)             | (52)                                    | Note         |
| TCC Investment Corporation | Union Cement Traders Inc.                           | Taiwan                 | Import and export trading                               | 219,450        | 219,450       | 21,945         | 100.00      | 938,965       | 85,616            | 85,616                                  | Note         |
|                            | Ho-Ping Power Company                               | Taiwan                 | Thermal power generation                                | 68,911         | 68,911        | 5,067          | 0.50        | 139,894       | 2,390,778         | 11,954                                  | Note         |
|                            | Taiwan Prosperity Chemical Corporation              | Taiwan                 | Processing and sale of chemical material                | 10,528         | 11,168        | 658            | 0.23        | 7,963         | 332,064           | 752                                     | Note         |
|                            | Ta-Ho Maritime Corporation                          | Taiwan                 | Marine transportation                                   | 343            | 343           | 34             | 0.02        | 664           | 336,164           | 63                                      | Note         |
|                            | E-ONE Moli Energy Corporation                       | Taiwan                 | Manufacture and sale of lithium battery                 | 172,648        | 145,253       | 18,068         | 6.00        | 48,180        | 325,906           | 19,488                                  |              |
|                            | International CSRC Investment Holdings Co.,<br>Ltd. | Taiwan                 | Investment  | 387,920        | 260,552       | 19,461         | 2.23        | 716,260       | 2,994,196         | 8,048                                   |              |
| Ta-Ho Maritime Corporation | Ta-Ho Maritime Holdings Ltd.                        | Samoa                  | Investment  | 325,995        | 325,995       | 10,300         | 100.00      | 4,199,003     | 188,957           | 188,957                                 | Note         |
|                            | Shih Hsin Storage & Transportation Co., Ltd.        | Taiwan                 | Warehousing, transportation and sale of cement          | 30,952         | 30,952        | 3,114          | 3.34        | 8,196         | (88,106)          | (2,942)                                 |              |
|                            | Chia Huan Tung Cement Corporation                   | Taiwan                 | Manufacturing and sale of cement-related products       | 7,943          | 8,825         | 794            | 1.16        | 1,534         | (62,793)          | (731)                                   |              |
|                            |   |                        |   | .,.            | 1,14          |                |             | 1             | ( , , , , , , , , | (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Note         |

Note (Continued)

|  |  |  |   | Original Inves  | tment Amount                                    |   | December 31,   | 2018  | Net Income   | Share of Profit  |  |
|--|--|--|---|---|---|---|--|---|--|--|--|
| Investor Company                         | Investee Company   | Location   | Main Businesses and Products  | December 31,<br>2018  | December 31,<br>2017                            | Shares/Units<br>(In Thousands)                              | %  | Carrying<br>Amount  | (Loss) of the<br>Investee  | (Loss)   | Note   |
| Taiwan Cement Engineering<br>Corporation | TCEC Corporation   | Brunei Darussalam  | Investment  | \$ -  | \$ 16,295                                       | -   | -  | \$ -  | \$ 94  | \$ 94  | Note   |
| TCC Information Systems<br>Corporation   | Taicem Information (Samoa) Pte., Ltd.<br>International CSRC Investment Holdings Co.,<br>Ltd.   | Samoa<br>Taiwan  | Investment<br>Investment  | 3,042<br>49,882   | 3,042<br>37,968                                 | 2,128<br>1,819  | 100.00<br>0.21   | 49,070<br>66,949  | 2,388<br>2,994,196   | 2,388<br>752   | Note<br>Note   |
| Hoping Industrial Port Corporation       | Taiwan Prosperity Chemical Corporation<br>E-ONE Moli Energy Corporation  | Taiwan<br>Taiwan   | Processing and sale of chemical material<br>Manufacture and sale of lithium battery   | 104,929<br>60,862   | 104,929<br>49,142                               | 6,675<br>6,633  | 2.29<br>2.20   | 80,775<br>17,687  | 332,064<br>325,906   | 7,591<br>7,154   | Note<br>Note   |
| E.G.C. Cement Corporation                | Shih Hsin Storage & Transportation Co., Ltd.   | Taiwan   | Warehousing, transportation and sale of cement  | 110,128   | 110,128   | 11,082  | 11.87  | 29,126  | (88,106)   | (10,458)   |  |
| Feng Sheng Enterprise Company<br>limited | Ho Swen Construction Material Co., Ltd.  | Taiwan   | Sand and gravel filtering and sale  | -   | 1,800   | -   | -  | -   | -  | -  | Note   |
| Union Cement Traders Inc.                | Shih Hsin Storage & Transportation Co., Ltd.<br>Taiwan Transport & Storage Corporation   | Taiwan<br>Taiwan   | Warehousing, transportation and sale of cement<br>Warehousing, transportation and sale of sand and<br>gravel  | 34,203<br>2,612   | 34,203<br>2,612                                 | 3,442<br>261  | 3.69<br>0.67   | 9,047<br>14,523   | (88,106)<br>161,612  | (3,249)<br>1,084   | Note   |
|  | Chia Huan Tung Cement Corporation<br>E-ONE Moli Energy Corporation<br>International CSRC Investment Holdings Co.,<br>Ltd.  | Taiwan<br>Taiwan<br>Taiwan   | Manufacturing and sale of cement-related products Manufacture and sale of lithium battery Investment  | 2,552<br>161,605<br>281,806   | 2,835<br>132,049<br>215,360                     | 255<br>17,412<br>10,145                                     | 0.37<br>5.78<br>1.16   | 492<br>46,431<br>373,381  | (62,793)<br>325,906<br>2,994,196   | (233)<br>18,780<br>4,195   |  |
| Ho-Ping Power Company                    | Ho-Ping Renewable Energy Company   | Taiwan   | Renewable energy generation   | 1,000   | -   | 100   | 100.00   | 1,000   | -  | -  | Note   |
| TCC Green Energy Corporation             | TCC Chia-Chien Green Energy Corporation TCC Yun-Kai Green Energy Corporation TCC Lien-Shen Green Energy Corporation TCC Chang-Ho Green Energy Corporation TCC Kao Cheng Green Energy Corporation TCC Kao Cheng Green Energy Corporation TCC Nan chung Green Energy Corporation Chang-Wang Wind Power Co., Ltd. | Taiwan<br>Taiwan<br>Taiwan<br>Taiwan<br>Taiwan<br>Taiwan<br>Taiwan | Renewable energy generation | 202,000<br>25,000<br>12,000<br>5,000<br>12,000<br>20,000<br>120,000 | -<br>-<br>-<br>-<br>-<br>-                      | 20,200<br>2,500<br>1,200<br>500<br>1,200<br>2,000<br>12,000 | 100.00<br>100.00<br>100.00<br>100.00<br>100.00<br>100.00<br>100.00 | 174,017<br>22,912<br>11,402<br>2,983<br>11,981<br>17,983<br>150,011 | (28,183)<br>(2,118)<br>(2,633)<br>(2,512)<br>(2,054)<br>(2,047)<br>(330) | (28,183)<br>(2,118)<br>(2,633)<br>(2,512)<br>(2,054)<br>(2,047)<br>(330) | Note<br>Note<br>Note<br>Note<br>Note<br>Note<br>Note |
| Ta-Ho Maritime Holdings Ltd.             | THC International S.A. Sheng Ho Maritime S.A. Ta-Ho Maritime (Hong Kong) Limited Chi Ho Maritime (S.A. Ta-Ho Maritime (Singapore) Pte. Ltd.  | Panama<br>Panama<br>Hong Kong<br>Panama<br>Singapore               | Marine transportation Marine transportation Marine transportation Marine transportation Marine transportation   | 61,737<br>61,737<br>156,647<br>199,955<br>3,072                     | 59,818<br>59,818<br>151,776<br>193,738<br>2,976 | 2<br>2<br>5,100<br>7<br>100                                 | 100.00<br>100.00<br>100.00<br>100.00<br>100.00                     | 2,638,664<br>465,117<br>653,369<br>356,448<br>74,177                | 98,316<br>(8,743)<br>94,366<br>4,372<br>543                              | 98,316<br>(8,743)<br>94,366<br>4,372<br>543                              | Note<br>Note<br>Note<br>Note<br>Note                 |
| TCC International Ltd. (Group)           | Quon Hing Concrete Co., Ltd.<br>Chia Huan Tung Cement Corporation<br>Hong Kong Concrete Co., Ltd.  | Hong Kong<br>Taiwan<br>Hong Kong                                   | Investment holding Manufacturing and sale of cement-related products Cement processing services   | 174,449<br>148,554<br>26,749  | 169,377<br>148,554<br>25,971                    | 100<br>14,855<br>129  | 50.00<br>19.48<br>31.50  | 283,508<br>25,765<br>217,105  | 135,756<br>(62,793)<br>34,823  | 67,878<br>(12,231)<br>10,969   |  |
| Taiwan Cement Dutch                      | Dutch OYAK TCC Holdings B.V.   | Netherlands  | Holding company   | 29,152,614  | -   | 100   | 40.00  | 29,071,244  | (167,984)  | (67,194)   |  |

Note: All intercompany transactions have been eliminated upon consolidation.

(Concluded)

#### INFORMATION ON INVESTMENT IN MAINLAND CHINA FOR THE YEAR ENDED DECEMBER 31, 2018

(In Thousands of New Taiwan Dollars)

A.

|   |  | I             | 1                                   | 1  | Investment 1 | Flow (Note 2) | A commulat - 3   |   | 1   |                                       |  |  |        |
|---|--|---------------|-------------------------------------|--|--------------|---------------|--|---|---|---------------------------------------|--|--|--------|
| Investee Company  | Main Businesses and Products                                       | Share Capital | Method of<br>Investment<br>(Note 1) | Accumulated<br>Outward<br>Remittance for<br>Investment from<br>Taiwan as of<br>January 1, 2018<br>(Note 2) | Outflow      | Inflow        | Accumulated Outward Remittance for Investment from Taiwan as of December 31, 2018 (Note 2) | Net Income<br>(Loss) of the<br>Investee | % Ownership<br>of Direct or<br>Indirect<br>Investment | Investment Gain<br>(Loss)<br>(Note 3) | Carrying Amoun<br>as of<br>December 31,<br>2018 (Note 3) | Accumulated<br>Repatriation of<br>Investment<br>Income as of<br>December 31,<br>2018 | Note   |
| Anhui King Bridge Cement Co., Ltd.                          | Manufacturing and sale of cement                                   | \$ 460,725    | (a)                                 | \$ 156,647   | \$ -         | s -           | \$ 156,647   | \$ (4,020)                              | 60.00   | \$ (2,412)                            | \$ 228,180   | \$ -   | Note 7 |
| TCC Fuzhou Cement Co., Ltd.                                 | Manufacturing and sale of cement                                   | 499,119       | (a)                                 | 282,002  |              |               | 282,002  | 30,746                                  | 100.00  | 30,746                                | 912,786  |  | Note 7 |
| TCC Fuzhou Yangyu Port Co., Ltd.                            | Service of port facility   | 153,575       | (a)                                 | 86,770   | _            | _             | 86,770   | (521)                                   | 100.00  | (521)                                 | 286,187  | _  | Note 7 |
| TCC Liuzhou Construction Materials Co., Ltd.                |  | 414,653       | (a)                                 | 99,517   | _            | _             | 99,517   | 181,963                                 | 42.00   | 76,425                                | 441,397  | _  | Note 7 |
| TCC Yingde Cement Co., Ltd.                                 | Manufacturing and sale of cement                                   | 7,813,896     | (a)                                 | 4.882.487  |              | _             | 4.882.487  | 3,670,277                               | 100.00  | 3,670,277                             | 21,247,365   |  | Note 7 |
| Jurong TCC Cement Co., Ltd.                                 | Manufacturing and sale of cement                                   | 7,156,595     | (a)                                 | 4,177,086  |              | _             | 4,177,086  | 1,800,138                               | 100.00  | 1,800,138                             | 12,552,681   |  | Note 7 |
| TCC (Guigang) Cement Ltd.                                   | Manufacturing and sale of cement                                   | 10,224,283    | (a)                                 | 7,313,238  | _            | _             | 7,313,238  | 4,384,063                               | 100.00  | 4,384,063                             | 22,406,521   |  | Note 7 |
| Jiangsu TCC Investment Co., Ltd.                            | Investment   | 1,535,750     | (a)                                 | 867.699  | =            |               | 867,699  | 403,596                                 | 100.00  | 403,596                               | 2,814,873  | =  | Note 7 |
| Yingde Dragon Mountain Cement Co., Ltd.                     | Manufacturing and sale of cement                                   | 1,914,508     | (a)                                 | 3,336,666  | -            | _             | 3,336,666  | 2,463,483                               | 100.00  | 2,463,483                             | 13,222,157   | -  | Note 7 |
| TCC Liaoning Cement Company Limited                         | Manufacturing and sale of cement                                   | 1,659,112     | (a)                                 | 1,369,321  | -            | _             | 1,369,321  | (92,686)                                | 100.00  | (92,686)                              | 1,682,160  | -  | Note 7 |
| TCC Anshun Cement Company Limited                           | Manufacturing and sale of cement                                   | 4,714,445     | (a)<br>(a)                          | 3,434,735  | -            | -             | 3,434,735  | 1,192,321                               | 100.00  | 1,192,321                             | 7,530,274  | -  | Note 7 |
| TCC Chongqing Cement Company Limited                        | Manufacturing and sale of cement                                   | 3,624,370     |                                     | 2.620.645  | -            |               | 2,620,645  | 1,662,989                               | 100.00  | 1,662,989                             | 6.857.651  | -  | Note 7 |
|   | Manufacturing and sale of cement  Manufacturing and sale of cement | 2,364,748     | (a)                                 | 1,716,826  | -            | -             |  | 946,719                                 | 100.00  | 946,719                               | 3,946,039  | -  |        |
| TCC Guangan Cement Company Limited                          |  |               | (a)                                 |  | -            |               | 1,716,826  |   |   |                                       |  | -  | Note 7 |
| TCC (Dong Guan) Cement Company Limited                      | Manufacturing and sale of cement                                   | 614,300       | (a)                                 | 347,080  | -            | -             | 347,080  | 17,273                                  | 100.00  | 17,273                                | 323,485  | -  | Note 7 |
| Guizhou Kong On Cement Company Limited                      | Manufacturing and sale of cement                                   | 623,515       | (a)                                 | 281,048  | -            | -             | 281,048  | 169,450                                 | 65.00   | 110,143                               | 536,821  | -  | Note 7 |
| TCC New (Hangzhou) Management Company                       | Operation management   | 245,720       | (a)                                 | 138,832  | -            | -             | 138,832  | 26,980                                  | 100.00  | 26,980                                | 201,016  | -  | Note 7 |
| Limited.  |  |               |                                     |  |              |               |  |   |   |                                       |  |  |        |
| Guizhou Kaili Rui An Jian Cai Co., Ltd.                     | Manufacturing and sale of cement                                   | 1,742,562     | (a)                                 | 1,098,811  | -            | -             | 1,098,811  | 853,585                                 | 100.00  | 853,585                               | 3,747,453  | -  | Note 7 |
| TCC Shaoguan Cement Co., Ltd.                               | Manufacturing and sale of cement                                   | 1,228,600     | (a)                                 | 1,094,990  | -            | -             | 1,094,990  | (19,337)                                | 100.00  | (19,337)                              | 1,159,388  | -  | Note 7 |
| TCC Huaying Cement Company Limited                          | Manufacturing and sale of cement                                   | 4,247,863     | (a)                                 | 3,139,325  | -            | -             | 3,139,325  | 907,332                                 | 100.00  | 907,332                               | 3,082,623  | -  | Note 7 |
| TCC Huaihua Cement Company Limited<br>(Note 4)              | Manufacturing and sale of cement                                   | 415,896       | (a)                                 | 5,746,822  | -            | -             | 5,746,822  | 738,143                                 | 100.00  | 738,143                               | 2,697,458  | -  | Note 7 |
| TCC Jingzhou Cement Company Limited<br>(Note 4)             | Manufacturing and sale of cement                                   | 44,720        | (a)                                 | -  | -            | -             | -  | 232,419                                 | 100.00  | 232,419                               | 1,334,332  | -  | Note 7 |
| TCC Huaihua Concrete Company Limited<br>(Note 4)            | Sale of ready-mixed concrete                                       | 44,720        | (a)                                 | -  | -            | -             | -  | (17,232)                                | 100.00  | (17,232)                              | 51,809   | -  | Note 7 |
| TCC Jiangsu Mining Industrial Company<br>Limited            | Mining excavation  | 122,860       | (a)                                 | 384,149  | -            | -             | 384,149  | (20,188)                                | 100.00  | (20,188)                              | 273,293  | -  | Note 7 |
| TCC Yingde Mining Industrial Company<br>Limited             | Mining excavation  | 353,223       | (a)                                 | 277,899  | -            | -             | 277,899  | 21,677                                  | 100.00  | 21,677                                | 454,947  | -  | Note 7 |
| TCC Guigang Mining Industrial Company<br>Limited            | Mining excavation  | 153,575       | (a)                                 | 132,647  | -            | -             | 132,647  | 10,472                                  | 100.00  | 10,472                                | 380,383  | -  | Note 7 |
| Scitus Naxi Cement Co., Ltd. (Note 5)                       | Manufacturing and sale of cement                                   | 655,193       | (a)                                 | -  | -            | -             | -  | 194,076                                 | 100.00  | 194,076                               | 324,632  | -  | Note 7 |
| Scitus Luzhou Cement Co., Ltd. (Note 5)                     | Manufacturing and sale of cement                                   | 1,766,440     | (a)                                 | -  | -            | -             | -  | 520,933                                 | 100.00  | 520,933                               | 2,508,011  | -  | Note 7 |
| Scitus Hejiang Cement Co., Ltd. (Note 5)                    | Manufacturing and sale of cement                                   | 103,974       | (a)                                 | -  |              | _             | -  | (8,205)                                 | 100.00  | (8,205)                               | 4,279  | -  | Note 7 |
| Scitus Luzhou Concrete Co., Ltd. (Note 5)                   | Sale of ready-mixed concrete                                       | 111,800       | (a)                                 | -  |              | _             | -  | 9,187                                   | 100.00  | 9,187                                 | 146,173  | -  | Note 7 |
| TCEC (Yingde) Machine Co., Ltd. (Note 6)                    | Production and sale of cement                                      | 16,295        | (b)                                 | 16,295   |              | _             | 16,295   | 60,113                                  | 100.00  | 60,113                                | 154,805  | -  | Note 7 |
| 3,  | machinery and assembly work  | .,            | ( )                                 | .,   |              |               | .,   | ,                                       |   | ,                                     | . ,  |  |        |
| Anshun Xin Tai Construction Materials                       | Filtering of sand and gravel and sale of                           | 67,080        | (a)                                 | 93,437   |              | _             | 93,437   | 2,377                                   | 100.00  | 2,377                                 | 66,675   | -  | Note 7 |
| Company Limited   | ready-mixed concrete   | ,             | ()                                  | ,  |              |               | ,  | ,                                       | 1   | , , , , ,                             | , •  |  |        |
| Fuzhou TCC Information Technology Co., Ltd. (Note 6)        | Software product and equipment maintenance                         | 3,072         | (a)                                 | 3,072  | -            | -             | 3,072  | 2,210                                   | 100.00  | 2,210                                 | 42,323   | -  | Note 7 |
| Da Tong (Guigang) International Logistics Co., Ltd (Note 6) | Logistics and transportation                                       | 153,575       | (a)                                 | 153,575  | -            | -             | 153,575  | 95,455                                  | 100.00  | 95,455                                | 636,691  | -  | Note 7 |

(Continued)

|   |  |               |                                     | Accumulated | Investment | Flow (Note 2) | Accumulated  |   |   |                                       |  |  |        |
|---|--|---------------|-------------------------------------|-------------|------------|---------------|--|---|---|---------------------------------------|--|--|--------|
| Investee Company  | Main Businesses and Products                 | Share Capital | Method of<br>Investment<br>(Note 1) | Outward     | Outflow    | Inflow        | Outward<br>Remittance for<br>Investment from<br>Taiwan as of<br>December 31,<br>2018<br>(Note 2) | Net Income<br>(Loss) of the<br>Investee | % Ownership<br>of Direct or<br>Indirect<br>Investment | Investment Gair<br>(Loss)<br>(Note 3) | Carrying Amoun<br>as of<br>December 31,<br>2018 (Note 3) | Accumulated<br>Repatriation of<br>Investment<br>Income as of<br>December 31,<br>2018 | Note   |
| Da Tong (Ying De) Logistics Co., Ltd.<br>(Note 6)                   | Logistics and transportation                 | \$ 22,360     | (a)                                 | \$ 22,360   | \$ -       | \$ -          | \$ 22,360  | \$ 15,344                               | 100.00  | \$ 15,344                             | \$ 97,646  | \$ -   | Note 7 |
| Guigang Da-Ho Shipping Co., Ltd. (Note 6)                           | Marine transportation                        | 17,888        | (a)                                 | 17,888      | -          | -             | 17,888   | 63,530                                  | 100.00  | 63,530                                | 334,528  | -  | Note 7 |
| Prosperity Conch Cement Company Limited                             | Manufacturing and sale of cement             | 2,593,760     | (a)                                 | 2,238,447   | -          | -             | 2,238,447  | 4,870,859                               | 25.00   | 1,217,715                             | 4,744,772  | -  |        |
| Yunnan Kungang & K. Wah Cement<br>Construction Materials Co., Ltd.  | Manufacturing and sale of cement             | 3,689,400     | (a)                                 | 1,459,370   | -          | -             | 1,459,370  | 697,402                                 | 30.00   | 209,220                               | 1,664,695  | -  |        |
| Baoshan Kungang & K. Wah Cement<br>Construction Materials Co., Ltd. | Manufacturing and sale of cement             | 1,845,058     | (a)                                 | 706,693     | -          | -             | 706,693  | 717,201                                 | 30.00   | 215,160                               | 876,910  | -  |        |
| Sichuan Taichang Building Material Group<br>Company Limited         | Manufacturing and sale of cement             | 894,400       | (a)                                 | 353,270     | -          | -             | 353,270  | 160,459                                 | 30.00   | 48,138                                | 47,692   | -  |        |
| Guangan Xin Tai Construction Materials<br>Company Limited           | Manufacturing and sale of concrete aggregate | 69,316        | (a)                                 | 48,228      | -          | -             | 48,228   | -                                       | 50.00   | -                                     | -  | -  |        |
| Guigang TCC Dong Yuan Environmental<br>Technology Company Limited   | Dangerous waste treatment                    | 523,224       | (a)                                 | -           | 523,224    | -             | 523,224  | (1,280)                                 | 95.20   | (1,218)                               | 534,988  | -  | Note 7 |

| Accumulated Investment in<br>Mainland China as of December 31,<br>2018 | Investment Amounts Authorized by<br>Investment Commission, MOEA | Upper Limit on Investment |
|--|---|---------------------------|
| \$72,144,649   | \$73,433,132  | (Note 8)                  |

- Note 1: The method of investments were as two follows:
  - a. investments in mainland China companies were through a company invested and established in a third region.
  - Direct investment in mainland companies.
- Note 2: Including outward remittance from offshore subsidiaries.
- Note 3: Investment gain (loss) was based on the associates' audited financial statements except Yunnan Kungang & K. Wah Cement Construction Materials Co., Ltd. and Baoshan Kungang & K. Wah Cement Construction Materials Co., Ltd. The Group considers that there would be no significant adjustments if such financial statements were to be audited.
- Note 4: As of December 31, 2018, the accumulated outward remittance for investments was a total of those from TCC Huaihua Cement Company Limited, TCC Jingzhou Cement Company Limited and TCC Huaihua Concrete Company Limited.
- Note 5: As of December 31, 2018, accumulated outward remittance for investments was a total of \$2,950,506 thousand from 10 companies, including Zunyi Scitus Cement Co., Ltd., Scitus Bijie Cement Co., Ltd., Scitus Hejiang Cement Co., Ltd., Guizhou Zunyi Ken On Concrete Co., Ltd., Scitus Bijie Concrete Co., Ltd., Scitus Luzhou Concrete Co., Ltd., Scitus Luzhou Concrete Co., Ltd., Scitus Luzhou Concrete Co., Ltd., Scitus Hejiang Cement Co., Ltd. and Scitus Luzhou Concrete Co., Ltd., Scitus Hejiang Cement Co., Ltd., Scitus Hejiang Cement Co., Ltd., Scitus Luzhou Concrete Co., Ltd., Scitus Hejiang Cement Co., Ltd., Scitus He
- Note 6: Including the amounts attributable to non-controlling interests.
- Note 7: All intercompany transactions have been eliminated upon consolidation.
- Note 8: The Corporation received a confirmation letter of Operation Headquarter from the Industrial Development Bureau of the MOEA in October 2016 stating that the Corporation is not limited by the restriction on the accumulated percentage or amount of investment in mainland China.
- B. See Tables 1, 2, 4, 6 and 10 for the information about significant transactions with investees in the mainland China, either directly or indirectly through a third area.

(Concluded)

# INTERCOMPANY RELATIONSHIPS AND SIGNIFICANT INTERCOMPANY TRANSACTIONS FOR THE YEAR ENDED DECEMBER 31, 2018 (In Thousands of New Taiwan Dollars)

|     |  |   | Relationship |  | Transa     | actions Details                         |                               |
|-----|--|---|--------------|--|------------|---|-------------------------------|
| No. | Investee Company                                       | Counterparty                              | (Note 1)     | Financial Statement Account              | Amount     | Payment Terms                           | % of Total Sales or<br>Assets |
| 0   | Taiwan Cement Corporation                              | E.G.C. Cement Corporation                 | 1            | Operating revenue                        | \$ 401,471 | 50 days after the day delivery was made | 0.3                           |
| · · | Tarwan cononi corporation                              | E.G.C. Cement Corporation                 | •            | Accounts receivable from related parties | 106,653    | 50 days after the day delivery was made | -                             |
|     |  | HKCCL                                     | 1            | Operating revenue                        | 157,211    | 65 days after the day delivery was made | 0.1                           |
|     |  | Feng Sheng Enterprise Company Limited     | 1            | Operating revenue                        | 353,749    | 30 days                                 | 0.3                           |
|     |  | gg  |              | Operating costs and expenses             | 296,517    | 30 days                                 | 0.2                           |
|     |  | Ta-Ho Maritime Corporation                | 1            | Operating costs and expenses             | 1,042,947  | 30 days                                 | 0.8                           |
|     |  | 1   |              | Payables to related parties              | 372,490    | 30 days                                 | 0.1                           |
|     |  | Taiwan Transport & Storage Corporation    | 1            | Operating costs and expenses             | 525,587    | 30 days                                 | 0.4                           |
|     |  |   |              | Payables to related parties              | 106,040    | 30 days                                 | _                             |
|     |  | Hoping Industrial Port Corporation        | 1            | Operating costs and expenses             | 447,052    | 20 days                                 | 0.4                           |
|     |  | Kuan-Ho Refractories Industry Corporation | 1            | Operating costs and expenses             | 231,370    | By contract                             | 0.2                           |
|     |  |   |              | Payables to related parties              | 111,417    | By contract                             | -                             |
|     |  | TCCIH                                     | 1            | Operating revenue                        | 505,401    | By contract                             | 0.4                           |
|     |  | Jin Chang Minerals Corporation            | 1            | Operating costs and expenses             | 589,037    | 30 days                                 | 0.5                           |
|     |  |   |              | Payables to related parties              | 147,517    | 30 days                                 | _                             |
|     |  | Ho Sheng Mining Co., Ltd.                 | 1            | Operating costs and expenses             | 407,375    | 30 days                                 | 0.3                           |
| 1   | Ho-Ping Power Company                                  | Hoping Industrial Port Corporation        | 3            | Operating costs and expenses             | 1,083,627  | 20 days                                 | 0.9                           |
|     |  | HPC Power Service Corporation             | 3            | Operating costs and expenses             | 417,256    | By contract                             | 0.3                           |
|     |  | _   |              | Payables to related parties              | 112,126    | By contract                             | -                             |
| 2   | THC International S.A.                                 | Ta-Ho Maritime Corporation                | 3            | Rent revenue                             | 228,345    | By negotiation                          | 0.2                           |
| 3   | TCC Chemical Corporation                               | Taiwan Prosperity Chemical Corporation    | 3            | Finance lease receivables                | 151,920    | By contract                             | -                             |
|     | 1  |   |              | Long-term finance lease receivables      | 1,245,982  | By contract                             | 0.4                           |
| 4   | Taiwan Transport & Storage Corporation                 | Taiwan Prosperity Chemical Corporation    | 3            | Operating revenue                        | 199,170    | By contract                             | 0.2                           |
|     |  | Hoping Industrial Port Corporation        | 3            | Operating revenue                        | 190,256    | 30 days                                 | 0.2                           |
| 5   | Da Tong (Guigang) International Logistics<br>Co., Ltd. | TCC (Guigang) Cement Limited              | 3            | Operating revenue                        | 353,012    | By negotiation                          | 0.3                           |
| 6   | Guigang Da-Ho Shipping Co., Ltd.                       | TCC (Guigang) Cement Limited              | 3            | Operating revenue                        | 305,348    | By negotiation                          | 0.2                           |
|     |  | TCC Yingde Cement Co., Ltd.               | 3            | Operating revenue                        | 252,008    | By negotiation                          | 0.2                           |
|     |  |   |              |  |            |   | (Continued)                   |

(Continued)

Note 1: All intercompany transactions have been eliminated upon consolidation. The directional flow of the investment relationship is represented by the following numerals:

- a. From parent to subsidiary: 1.b. From subsidiary to parent: 2.c. Between subsidiaries: 3.

Note 2: This table includes transactions for amounts over \$100 million.

(Concluded)

## TAIWAN CEMENT CORPORATION

NOTES TO FINANCIAL STATEMENTS FOR THE YEARS ENDED DECEMBER 31, 2018 AND 2017 (In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

#### 1. GENERAL INFORMATION

Taiwan Cement Corporation (the "Corporation") was incorporated in 1946 and was restructured as a corporation in 1951, which was jointly operated by the Ministry of Economics Resource Committee and the Taiwan Provincial Government. In 1954, the Corporation privatized as a result of the Taiwan government's land reform program, land-to-the-tiller policy. The Corporation engages in the manufacture and marketing of cement, cement-related products and ready-mixed concrete. The Corporation's shares have been listed on the Taiwan Stock Exchange since February 1962.

The financial statements are presented in New Taiwan dollars, the functional currency of the Corporation.

## 2. APPROVAL OF FINANCIAL STATEMENTS

The financial statements were approved by the Corporation's board of directors on March 22, 2019.

#### 3. APPLICATION OF NEW, AMENDED AND REVISED STANDARDS AND INTERPRETATIONS

a. Initial application of the amendments to the Regulations Governing the Preparation of Financial Reports by Securities Issuers and the International Financial Reporting Standards (IFRS), International Accounting Standards (IAS), Interpretations of IFRS (IFRIC) and Interpretations of IAS (SIC) (collectively, the "IFRSs") endorsed and issued into effect by the Financial Supervisory Commission (FSC)

Except for the following, whenever applied, the initial application of the amendments to the Regulations Governing the Preparation of Financial Reports by Securities Issuers and the IFRSs endorsed and issued into effect by the FSC would not have any material impact on the Corporation's accounting policies:

## 1) IFRS 9 "Financial Instruments" and related amendments

IFRS 9 supersedes IAS 39 "Financial Instruments: Recognition and Measurement", with consequential amendments to IFRS 7 "Financial Instruments: Disclosures" and other standards. IFRS 9 sets out the requirements for classification, measurement and impairment of financial assets and hedge accounting. Refer to Note 4 for information relating to the relevant accounting policies.

Classification, measurement and impairment of financial assets

On the basis of the facts and circumstances that existed as of January 1, 2018, the Corporation has performed an assessment of the classification of recognized financial assets and has elected not to restate prior reporting periods.

The following table shows the original measurement categories and carrying amount under IAS 39 and the new measurement categories and carrying amount under IFRS 9 for each class of the Corporation's financial assets and financial liabilities as of January 1, 2018.

|  | Meas   | surement Cat           | egory   |  | Carrying A                  | mount  |          |
|--|--|------------------------|---|--|-----------------------------|--|----------|
| Financial Assets   | IAS 39   |                        | IFRS 9  |  | IAS 39                      | IFRS 9                                       | Remark   |
| 1 7  | Available-for-sale<br>Available-for-sale                     | Fair v<br>con<br>(F    | datorily at FVTI<br>value through of<br>mprehensive ind<br>VTOCI) - equity<br>struments | her<br>come  | 270,469<br>5,889,868        | \$ 270,469<br>5,889,868                      | a)<br>a) |
|  | Available-for-sale<br>(financial assets<br>measured at cost) | Fair v<br>cor<br>(F    | value through of<br>mprehensive ind<br>VTOCI) - equity                                  | come   | 85,159                      | 3,982,858                                    | a)       |
| Cash and cash equivalents, accounts and notes receivable (from related parties), and other receivables (from related parties)          | Loans and receivables  |                        | rtized cost   |  | 4,423,406                   | 4,423,406                                    | b)       |
| Financial Assets   | IAS 39<br>Carrying<br>Amount as of<br>January 1, 2018        | Reclassifi-<br>cations | Remeasure-<br>ments   | IFRS 9<br>Carrying<br>Amount as o<br>January 1, 20 |                             | Other Equity<br>Effect on<br>January 1, 2018 | 8 Remar  |
| <u>FVTPL</u>   | \$ -   | \$ -                   | \$ -  | \$   | - \$ -                      | \$ -   |          |
| Add: Reclassification from<br>available-for-sale (IAS 39)<br>Required reclassification<br>Fair value option elected at January<br>2018 | 1,   | 270,469                |   | 270,469  | 133,934                     | (133,934)                                    | a)       |
| <u>FVTOCI</u>  | <del></del>  | 270,469                |   | 270,469  | 133,934                     | (133,934)                                    | )        |
| Equity instruments Add: Reclassification from available-for-sale (IAS 39) Add: Reclassification from financial                         | -<br>  | 5,889,868<br>85,159    | 3,897,699   | 5,889,868<br>3,982,858                             |                             | 3,843,822                                    | a)<br>a) |
| assets measured at cost (IAS 39)   | <u>=</u>   | 5,975,027              | 3,897,699   | 9,872,720  | 53,877                      | 3,843,822                                    |          |
| Amortized cost  Add: Reclassification from loans and receivables (IAS 39)  |  | 4,423,406              | <del>-</del>  | 4,423,400  | <u> </u>                    |  | b)       |
|  | <u>s -</u>   | \$ 10,668,902          | \$ 3,897,699  | \$ 14,566,60                                       | <u>\$ 187,811</u>           | \$ 3,709,888                                 |          |
|  | Car<br>Amou  | rying Aris             | sing from C<br>Initial Am   | IFRS 9<br>Carrying lount as of<br>eary 1, 2018     | on January 1,               | ther Equity<br>Effect on<br>nuary 1, 2018    | Remark   |
| Investments accounted for using the eq   | uity method \$118.   | 108,972 \$             | 1,000,163 \$11  | 19,109,135   | <u>\$ 466,194</u> <u>\$</u> | 533,969                                      | c)       |

a) The Corporation elected to designate all its investments in equity securities previously classified as available-for-sale under IAS 39 as at FVTOCI under IFRS 9. As a result, the related other equity - unrealized gain (loss) on available-for-sale financial assets of \$19,915,014 thousand was reclassified to retained earnings of \$133,934 thousand and other equity - unrealized gain (loss) on financial assets at FVTOCI of \$19,781,080 thousand.

Investments in unlisted shares previously measured at cost under IAS 39 have been designated as at FVTOCI under IFRS 9 and were remeasured at fair value. Consequently, an increase of \$3,843,822 thousand was recognized in both financial assets at FVTOCI and other equity - unrealized gain (loss) on financial assets at FVTOCI on January 1, 2018.

The Corporation recognized under IAS 39 impairment loss on certain investments in equity securities previously measured at cost and the loss was accumulated in retained earnings. Since those investments were designated as at FVTOCI under IFRS 9 and no impairment assessment is required, an adjustment was made that resulted in a decrease of \$53,877 thousand in other equity - unrealized gain (loss) on financial assets at FVTOCI and an increase of \$53,877 thousand in retained earnings on January 1, 2018.

- b) Notes and account receivable and other receivables (including related party transactions) that were previously classified as loans and receivables under IAS 39 are classified as at amortized cost with an assessment of expected credit losses under IFRS 9.
- c) As a result of the retrospective application of IFRS 9 by associates, there was an increase in investments accounted for using the equity method in the amount \$1,000,163 thousand, an increase in other equity unrealized gain (loss) on financial assets at FVTOCI in the amount of \$533,969 thousand, and an increase in retained earnings in the amount of \$466,194 thousand on January 1, 2018.
- 2) IFRS 15 "Revenue from Contracts with Customers" and related amendments

IFRS 15 establishes principles for recognizing revenue that apply to all contracts with customers and supersedes IAS 18 "Revenue", IAS 11 "Construction Contracts" and a number of revenue-related interpretations. Refer to Note 4 for related accounting policies.

The application of IFRS 15 has no material impact on the Corporation.

b. Amendments to the Regulations Governing the Preparation of Financial Reports by Securities Issuers and the International Financial Reporting Standards (IFRS), International Accounting Standards (IAS), Interpretations of IFRS (IFRIC), and Interpretations of IAS (SIC) (collectively, the "IFRSs") endorsed by the FSC for application starting from 2019

| New, Amended or Revised Standards and Interpretations (the "New IFRSs") | Effective Date Announced by IASB (Note 1) |
|---|---|
| Annual Improvements to IFRSs 2015-2017 Cycle                            | January 1, 2019                           |
| Amendments to IFRS 9 "Prepayment Features with Negative                 | January 1, 2019 (Note 2)                  |
| Compensation"   |   |
| IFRS 16 "Leases"  | January 1, 2019                           |
| Amendments to IAS 19 "Plan Amendment, Curtailment or                    | January 1, 2019 (Note 3)                  |
| Settlement"   |   |
| Amendments to IAS 28 "Long-term Interests in Associates and Joint       | January 1, 2019                           |
| Ventures"   |   |
| IFRIC 23 "Uncertainty over Income Tax Treatments"                       | January 1, 2019                           |

- Note 1: Unless stated otherwise, the above New IFRSs are effective for annual periods beginning on or after their respective effective dates.
- Note 2: The FSC permits the election for early adoption of the amendments starting from 2018.
- Note 3: The Corporation shall apply these amendments to plan amendments, curtailments or settlements occurring on or after January 1, 2019.
- 1) IFRS 16 "Leases"

IFRS 16 sets out the accounting standards for leases that will supersede IAS 17 and a number of related interpretations.

## Definition of a lease

Upon initial application of IFRS 16, the Corporation will elect to apply the guidance of IFRS 16 in determining whether contracts are, or contain, a lease only to contracts entered into (or changed) on or after January 1, 2019. Contracts identified as containing a lease under IAS 17 and IFRIC 4 will not be reassessed and will be accounted for in accordance with the transitional provisions under IFRS 16.

## The Corporation as lessee

Upon initial application of IFRS 16, the Corporation will recognize right-of-use assets, or investment properties if the right-of-use assets meet the definition of investment properties, and lease liabilities for all leases on the consolidated balance sheets except for those whose payments under low-value asset and short-term leases will be recognized as expenses on a straight-line basis. On the statements of comprehensive income, the Corporation will present the depreciation expense charged on right-of-use assets separately from the interest expense accrued on lease liabilities; interest is computed using the effective interest method. On the statements of cash flows, cash payments for the principal portion of lease liabilities will be classified within financing activities; cash payments for the interest portion will be classified within financing activities. Currently, payments under operating lease contracts, including property interest qualified as investment properties, are recognized as expenses on a straight-line basis. Cash flows for operating leases are classified within operating activities on the statements of cash flows. Leased assets and finance lease payables are recognized for contracts classified as finance leases.

The Corporation anticipates applying IFRS 16 retrospectively with the cumulative effect of the initial application of this standard recognized on January 1, 2019. Comparative information will not be restated.

Lease liabilities will be recognized on January 1, 2019 for leases currently classified as operating leases with the application of IAS 17. Lease liabilities will be measured at the present value of the remaining lease payments, discounted using the lessee's incremental borrowing rate on January 1, 2019. Right-of-use assets will be discounted using the aforementioned incremental borrowing rate as if IFRS 16 had been applied since the commencement date, the Company will apply IAS 36 to all right-of-use assets.

The Corporation expects to apply the following practical expedients:

- a) The Corporation will apply a single discount rate to a portfolio of leases with reasonably similar characteristics to measure lease liabilities.
- b) The Corporation will account for those leases for which the lease term ends on or before December 31, 2019 as short-term leases.
- c) The Corporation will exclude initial direct costs from the measurement of right-of-use assets on January 1, 2019.
- d) The Corporation will use hindsight, such as in determining lease terms, to measure lease liabilities.

## The Corporation as lessor

The Corporation will not make any adjustments for leases in which it is a lessor and will account for those leases with the application of IFRS 16 starting from January 1, 2019.

The application of IFRS 16 is not expected to have a material impact on the accounting of the Corporation as leasor.

## Anticipated impact on assets and liabilities on January 1, 2019

|                                 | Carrying          | Adjustments         | Adjusted            |  |  |
|---------------------------------|-------------------|---------------------|---------------------|--|--|
|                                 | Amount as of      | Arising from        | Carrying            |  |  |
|                                 | December 31,      | Initial             | Amount as of        |  |  |
|                                 | 2018              | Application         | January 1, 2019     |  |  |
| Other current assets            | \$ 191,053        | \$ (2,077)          | \$ 188,976          |  |  |
| Right-of-use assets             |                   | 1,659,486           |                     |  |  |
| Total effect on assets          | <u>\$ 191,053</u> | <u>\$ 1,657,409</u> | <u>\$ 1,848,462</u> |  |  |
| Lease liabilities - current     | \$ -              | \$ 294,215          | \$ 294,215          |  |  |
| Lease liabilities - non-current | -                 |                     | 1,363,194           |  |  |
| Total effect on liabilities     | <u>\$</u>         | <u>\$ 1,657,409</u> | <u>\$ 1,657,409</u> |  |  |

Except for the above impact, as of the date the financial statements were authorized, the Corporation assessed that the application of other standards and interpretations will not have material impact on the Corporation's financial position and financial performance.

## c. The New IFRSs issued by IASB but not yet endorsed and issued into effect by the FSC

| New IFRSs  | issued by IASB (Note 1)  |
|--|--------------------------|
| Amendments to IFRS 3 "Definition of a Business"                  | January 1, 2020 (Note 2) |
| Amendments to IFRS 10 and IAS 28 "Sale or Contribution of Assets | To be determined by IASB |
| between An Investor and Its Associate or Joint Venture"          |                          |
| IFRS 17 "Insurance Contracts"                                    | January 1, 2021          |
| Amendments to IAS 1 and IAS 8 "Definition of Material"           | January 1, 2020 (Note 3) |

- Note 1: Unless stated otherwise, the above New IFRSs are effective for annual periods beginning on or after their respective effective dates.
- Note 2: The Corporation shall apply these amendments to business combinations for which the acquisition date is on or after the beginning of the first annual reporting period beginning on or after January 1, 2020 and to asset acquisitions that occur on or after the beginning of that period.
- Note 3: The Corporation shall apply these amendments prospectively for annual reporting periods beginning on or after January 1, 2020.

As of the date the financial statements were authorized, the Corporation is continuously assessing the possible impact that the application of other standards and interpretations will have on the Corporation's financial position and financial performance and will disclose the relevant impact when the assessment is completed.

#### 4. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

#### a. Statement of compliance

The financial statements have been prepared in accordance with the Regulations Governing the Preparation of Financial Reports by Securities Issuers.

## b. Basis of preparation

The financial statements have been prepared on the historical cost basis except for financial instruments which are measured at fair value and the net defined benefit asset which is measured at the present value of the defined benefit obligation less the fair value of the plan assets.

The fair value measurements, which are grouped into Levels 1 to 3 on the basis of the degree to which the fair value measurement inputs are observable and the significance of the inputs to the fair value measurement in its entirety, are described as follows:

- 1) Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities;
- 2) Level 2 inputs are inputs other than quoted prices included within Level 1 that are observable for an asset or liability, either directly (i.e. as prices) or indirectly (i.e. derived from prices); and
- 3) Level 3 inputs are unobservable inputs on an asset or liability.

When preparing its financial statements, the Corporation used the equity method to account for its investments in subsidiaries and associates. In order for the amounts of the net profit for the year, other comprehensive income for the year and total equity in its financial statements to be the same as the amounts attributable to the owners of the Corporation in its consolidated financial statements, adjustments arising from the differences in accounting treatments between the parent company only basis and the consolidated basis were made to investments accounted for by using the equity method, share of profit or loss of subsidiaries and associates, share of other comprehensive income of subsidiaries and associates and related equity items, as appropriate, in these financial statements.

c. Classification of current and non-current assets and liabilities

Current assets include:

- 1) Assets held primarily for the purpose of trading;
- 2) Assets expected to be realized within 12 months after the reporting period; and
- 3) Cash and cash equivalents, unless an asset is restricted from being exchanged or used to settle a liability for at least 12 months after the reporting period.

Current liabilities include:

- 1) Liabilities held primarily for the purpose of trading;
- 2) Liabilities due to be settled within 12 months after the reporting period; and
- 3) Liabilities for which the Corporation does not have an unconditional right to defer settlement for at least 12 months after the reporting period.

Assets and liabilities that are not classified as current are classified as non-current.

## d. Foreign currencies

In preparing the Corporation's financial statements, transactions in currencies other than the Corporation's functional currency (i.e. foreign currencies) are recognized at the rates of exchange prevailing at the dates of the transactions.

At the end of each reporting period, monetary items denominated in foreign currencies are retranslated at the rates prevailing at that date. Exchange differences on monetary items arising from settlement or translation are recognized in profit or loss in the period.

Non-monetary items that are measured at historical cost in a foreign currency are not retranslated.

For the purpose of presenting financial statements, the functional currencies of the Corporation and entities under its control (including subsidiaries and associates in other countries that use currencies that are different from the currency of the Corporation) are translated into the presentation currency, the New Taiwan dollar, as follows: Assets and liabilities are translated at the exchange rates prevailing at the end of the reporting period; and income and expense items are translated at the average exchange rates for the period. The resulting currency translation differences are recognized in other comprehensive income.

On the disposal of a foreign operation (i.e. a disposal of the Corporation's entire interest in a foreign operation or a disposal involving the loss of control over a subsidiary that includes a foreign operation), all of the exchange differences accumulated in equity in respect of that operation are reclassified to profit or loss.

In relation to a partial disposal of a subsidiary that does not result in the Corporation losing control over the subsidiary, the proportionate share of accumulated exchange differences is included in the calculations involved in the equity-method transaction but is not recognized in profit or loss. For all other partial disposals, the proportionate share of the accumulated exchange differences recognized in other comprehensive income is reclassified to profit or loss.

#### e. Inventories

Inventories consist of raw materials, supplies, finished goods and work in process and are stated at the lower of cost or net realizable value. Inventory write-downs are made by item, except where it may be appropriate to group similar or related items. The net realizable value is the estimated selling price of inventories less all estimated costs of completion and costs necessary to make the sale. Inventories are recorded at the weighted-average cost on the end of reporting period.

#### f. Investments in subsidiaries

The Corporation uses the equity method to account for its investments in subsidiaries.

A subsidiary is an entity that is controlled by the Corporation.

Under the equity method, investments in a subsidiary are initially recognized at cost and adjusted thereafter to recognize the Corporation's share of the profit or loss and other comprehensive income of the subsidiary. The Corporation also recognizes the changes in the Corporation's share of the equity of its subsidiaries.

Changes in the Corporation's ownership interest in a subsidiary that do not result in the Corporation losing control of the subsidiary are equity transactions. The Corporation recognizes directly in equity any difference between the carrying amount of such investments and the fair value of the consideration paid or received.

When the Corporation's share of losses of a subsidiary exceeds its interest in that subsidiary (which includes any carrying amount of the investment accounted for by using the equity method and long-term interests that, in substance, form part of the Corporation's net investment in the subsidiary), the Corporation continues recognizing its share of further losses.

Any excess of the cost of an acquisition over the Corporation's share of the net fair value of the identifiable assets and liabilities of a subsidiary at the date of acquisition is recognized as goodwill, which is included within the carrying amount of the investment and is not amortized. Any excess of the Corporation's share of the net fair value of the identifiable assets and liabilities over the cost of the acquisition is recognized immediately in profit or loss.

The Corporation assesses its investments for any impairment by comparing the respective carrying amounts with the estimated recoverable amounts as assessed based on the entire financial statements of its investee companies. Impairment loss is recognized when the carrying amount of any such investment exceeds the recoverable amount. If the recoverable amount of an investment subsequently increases, the Corporation recognizes a reversal of the impairment loss; the adjusted post-reversal carrying amount should not exceed the carrying amount that would have been recognized (net of amortization or depreciation) had no impairment loss been recognized in prior years. An impairment loss recognized on goodwill cannot be reversed in a subsequent period.

When the Corporation loses control of a subsidiary, it recognizes the investment retained in the former subsidiary at its fair value at the date when control is lost. The difference between the fair value of the retained investment plus any consideration received and the carrying amount of the previous investment at the date when control is lost is recognized as a gain or loss in profit or loss. Besides, the Corporation accounts for all amounts previously recognized in other comprehensive income in relation to that subsidiary on the same basis as would be required if the Corporation had directly disposed of the related assets or liabilities.

Profits or losses resulting from downstream transactions are eliminated in full only in the Corporation's parent company only financial statements. Profits and losses resulting from upstream transactions and transactions between subsidiaries are recognized only in the Corporation's financial statements only to the extent of interests in the subsidiaries that are not related to the Corporation.

#### g. Investments in associates

An associate is an entity over which the Corporation has significant influence and that is neither a subsidiary nor an interest in a joint venture.

The Corporation uses the equity method to account for its investments in associates. Under the equity method, investments in an associate are initially recognized at cost and adjusted thereafter to recognize the Corporation's share of the profit or loss and other comprehensive income of the associate. The Corporation also recognizes the changes in the Corporation's share of the equity of associates.

Any excess of the cost of an acquisition over the Corporation's share of the net fair value of the identifiable assets and liabilities of an associate at the date of acquisition is recognized as goodwill, which is included within the carrying amount of the investment and is not amortized. Any excess of the Corporation's share of the net fair value of the identifiable assets and liabilities over the cost of the acquisition, after reassessment, is recognized immediately in profit or loss.

When the Corporation subscribes for additional new shares of an associate at a percentage different from its existing ownership percentage, the resulting carrying amount of the investment differs from the amount of the Corporation's proportionate interest in that associate. The Corporation records such a difference as an adjustment to investments, with the corresponding amount charged or credited to capital surplus - changes in the Corporation's share of equity of associates. If the Corporation's ownership interest is reduced due to its additional subscription of the new shares of the associate, the proportionate amount of the gains or losses previously recognized in other comprehensive income in relation to that associate is reclassified to profit or loss on the same basis as would be required had the investee had directly disposed of the related assets or liabilities. When the adjustment should be debited to capital surplus, but the capital surplus recognized from investments accounted for by using the equity method is insufficient, the shortage is debited to retained earnings.

When the Corporation's share of losses of an associate equals or exceeds its interest in that associate, the Corporation discontinues recognizing its share of further losses. Additional losses and liabilities are recognized only to the extent that the Corporation has incurred legal obligations, or constructive obligations, or made payments on behalf of that associate.

The entire carrying amount of an investment is tested for impairment as a single asset by comparing its recoverable amount with its carrying amount. Any impairment loss recognized is not allocated to any assets, including goodwill, that form part of the carrying amount of the investment. Any reversal of that impairment loss is recognized to the extent that the recoverable amount of the investment subsequently increases.

The Corporation discontinues the use of the equity method from the date on which its investment ceases to be an associate. Any retained investment is measured at fair value at that date, and the fair value is regarded as the investment's fair value on its initial recognition as a financial asset. The difference between the previous carrying amount of the associate attributable to the retained interest and its fair value is included in the determination of the gain or loss on disposal of the associate. The Corporation accounts for all amounts previously recognized in other comprehensive income in relation to that associate on the same basis as would be required had that associate had directly disposed of the related assets or liabilities. If an investment in an associate becomes an investment in a joint venture, the Corporation continues to apply the equity method and does not remeasure the retained interest.

When the Corporation transacts with its associate, profits and losses resulting from the transactions with the associate are recognized in the Corporation' financial statements only to the extent that interests in the associate are related to the Corporation.

## h. Property, plant and equipment

Property, plant and equipment are stated at cost less subsequent accumulated depreciation and subsequent accumulated impairment loss.

Property, plant and equipment in the course of construction are measured at cost less any recognized impairment loss. Cost includes professional fees and borrowing costs eligible for capitalization. Such assets are depreciated and classified to the appropriate categories of property, plant and equipment when completed and ready for their intended use.

Depreciation of property, plant and equipment is recognized using the straight-line method. Each significant part is depreciated separately. The estimated useful lives, residual values and depreciation methods are reviewed at the end of each reporting period, with the effect of any changes in the estimates accounted for on a prospective basis.

On derecognition of an item of property, plant and equipment, the difference between the sales proceeds and the carrying amount of the asset is recognized in profit or loss.

## i. Investment properties

Investment properties are properties held to earn rentals or for capital appreciation and land held for a currently undetermined future use.

Investment properties are measured initially at cost, including transaction costs. Subsequent to initial recognition, investment properties are measured at cost less accumulated depreciation and accumulated impairment loss. Depreciation is recognized using the straight-line method.

On derecognition of an investment property, the difference between the net disposal proceeds and the carrying amount of the asset is included in profit or loss.

## j. Intangible assets

## 1) Intangible assets acquired separately

Intangible assets with finite useful lives that are acquired separately are initially measured at cost and subsequently measured at cost less accumulated amortization and accumulated impairment loss. Amortization is recognized on a straight-line basis. The estimated useful lives, residual values, and amortization methods are reviewed at the end of each reporting period, with the effect of any changes in the estimates accounted for on a prospective basis. Intangible assets with indefinite useful lives that are acquired separately are measured at cost less accumulated impairment loss.

## 2) Derecognition of intangible assets

On derecognition of an intangible asset, the difference between the net disposal proceeds and the carrying amount of the asset is recognized in profit or loss.

## k. Impairment of tangible and intangible assets

At the end of each reporting period, the Corporation reviews the carrying amounts of its tangible and intangible assets to determine whether there is any indication that those assets have suffered an impairment loss. If any such indication exists, the recoverable amount of the asset is estimated in order to determine the extent of the impairment loss. When it is not possible to estimate the recoverable amount of an individual asset, the Corporation estimates the recoverable amount of the cash-generating unit to which the asset belongs. Corporate assets are allocated to the smallest group of cash-generating units on a reasonable and consistent basis of allocation.

Intangible assets not yet available for use are tested for impairment at least annually and whenever there is an indication that any of the assets may be impaired.

The recoverable amount is the higher of fair value less costs to sell and value in use. If the recoverable amount of an asset or cash-generating unit is estimated to be less than its carrying amount, the carrying amount of the asset or cash-generating unit is reduced to its recoverable amount, with the resulting impairment loss recognized in profit or loss.

When an impairment loss is subsequently reversed, the carrying amount of an asset or cash-generating unit is increased to the revised estimate of its recoverable amount, but only to the extent of the carrying amount (net of amortization or depreciation) that would have been determined had no impairment loss been recognized for the asset or cash-generating unit in prior years. A reversal of an impairment loss is recognized in profit or loss.

#### 1. Financial instruments

Financial assets and financial liabilities are recognized when an entity becomes a party to the contractual provisions of the instruments.

Financial assets and financial liabilities are initially measured at fair value. Transaction costs that are directly attributable to the acquisition or issuance of financial assets and financial liabilities (other than financial assets and financial liabilities at FVTPL) are added to or deducted from the fair value of the financial assets or financial liabilities, as appropriate, on initial recognition. Transaction costs directly attributable to the acquisition of financial assets or financial liabilities at FVTPL are recognized immediately in profit or loss.

### 1) Financial assets

All regular way purchases or sales of financial assets are recognized and derecognized on a trade date basis.

#### a) Measurement categories

## 2018

Financial assets are classified into the following categories: Financial assets at FVTPL, financial assets at amortized cost and investments in equity instruments at FVTOCI.

#### i. Financial assets at FVTPL

Financial assets are classified as at FVTPL when such the financial assets are mandatorily classified as at FVTPL. Financial assets mandatorily classified as at FVTPL include investments in equity instruments which are not designated as at FVTOCI.

Financial assets at FVTPL are subsequently measured at fair value, with any gains or losses arising on remeasurement recognized in profit or loss. Fair value is determined in the manner described in Note 25.

## ii. Financial assets at amortized cost

Financial assets that meet the following conditions are subsequently measured at amortized cost:

- i) The financial asset is held within a business model whose objective is to hold financial assets in order to collect contractual cash flows; and
- ii) The contractual terms of the financial asset give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding.

Subsequent to initial recognition, financial assets at amortized cost, including cash and cash equivalents, trade receivables at amortized cost, are measured at amortized cost, which equals the gross carrying amount determined using the effective interest method less any impairment loss. Exchange differences are recognized in profit or loss.

Interest income is calculated by applying the effective interest rate to the gross carrying amount of such a financial asset, except for:

- Purchased or originated credit-impaired financial assets, for which interest income is calculated by applying the credit-adjusted effective interest rate to the amortized cost of such financial assets; and
- ii) Financial assets that are not credit-impaired on purchase or origination but have subsequently become credit-impaired, for which interest income is calculated by applying the effective interest rate to the amortized cost of such financial assets in subsequent reporting periods.

Cash equivalents include time deposits with original maturities within 3 months from the date of acquisition, which are highly liquid, readily convertible to a known amount of cash and are subject to an insignificant risk of changes in value. These cash equivalents are held for the purpose of meeting short-term cash commitments.

## iii. Investments in equity instruments at FVTOCI

On initial recognition, the Corporation may make an irrevocable election to designate investments in equity instruments as at FVTOCI. Designation as at FVTOCI is not permitted if the equity investment is held for trading or if it is contingent consideration recognized by an acquirer in a business combination.

Investments in equity instruments at FVTOCI are subsequently measured at fair value with gains and losses arising from changes in fair value recognized in other comprehensive income and accumulated in other equity. The cumulative gain or loss will not be reclassified to profit or loss on disposal of the equity investments; instead, it will be transferred to retained earnings.

Dividends on these investments in equity instruments are recognized in profit or loss when the Corporation's right to receive the dividends is established, unless the dividends clearly represent a recovery of part of the cost of the investment.

## 2017

Financial assets are classified into the following categories: Financial assets at FVTPL, available-for-sale financial assets and loans and receivables.

## i. Financial assets at FVTPL

Financial assets at FVTPL are subsequently measured at fair value, with any gains or losses arising on remeasurement recognized in profit or loss. Fair value is determined in the manner described in Note 25.

## ii. Available-for-sale financial assets

Available-for-sale financial assets are non-derivatives that are either designated as available-for-sale or are not classified as loans and receivables, held-to-maturity investments or financial assets at FVTPL.

Available-for-sale financial assets are measured at fair value. Changes in the carrying amounts of available-for-sale monetary financial assets (relating to changes in foreign currency exchange rates, interest income calculated using the effective interest method and dividends on available-for-sale equity investments) are recognized in profit or loss. Other changes in the carrying amount of available-for-sale financial assets are recognized in other comprehensive income and will be reclassified to profit or loss when the investment is disposed of or are determined to be impaired.

Dividends on available-for-sale equity instruments are recognized in profit or loss when the Corporation's right to receive the dividends is established.

Available-for-sale equity investments that do not have a quoted market price in an active market and whose fair value cannot be reliably measured are measured at cost less any identified impairment loss at the end of each reporting period and are presented in a separate line item as financial assets carried at cost. If, in a subsequent period, the fair value of the financial assets can be reliably measured, the financial assets are remeasured at fair value. The difference between carrying amount and fair value is recognized in other comprehensive income on financial assets. Any impairment losses are recognized in profit and loss.

#### iii. Loans and receivables

Loans and receivables (including cash equivalents) are measured at amortized cost using the effective interest method less any impairment, except for short-term receivables when the effect of discounting is immaterial.

Cash equivalents include repurchase agreements collateralized by bonds with original maturities within three months from the date of acquisition, which are highly liquid, readily convertible to a known amount of cash and subject to an insignificant risk of changes in value. These cash equivalents are held for the purpose of meeting short-term cash commitments.

## b) Impairment of financial assets and contract assets

## 2018

The Corporation recognizes a loss allowance for expected credit losses on financial assets at amortized cost (including trade receivables).

The Company always recognizes lifetime expected credit losses (i.e. ECLs) for trade receivables. For all other financial instruments, the Corporation recognizes lifetime ECLs when there has been a significant increase in credit risk since initial recognition. If, on the other hand, the credit risk on a financial instrument has not increased significantly since initial recognition, the Corporation measures the loss allowance for that financial instrument at an amount equal to 12-month ECLs.

Expected credit losses reflect the weighted average of credit losses with the respective risks of default occurring as the weights. Lifetime ECLs represent the expected credit losses that will result from all possible default events over the expected life of a financial instrument. In contrast, 12-month ECLs represent the portion of lifetime ECLs that is expected to result from default events on a financial instrument that are possible within 12 months after the reporting date.

The Corporation recognizes an impairment gain or loss in profit or loss for all financial instruments with a corresponding adjustment to their carrying amount through a loss allowance account.

## 2017

Financial assets, other than those at FVTPL, are assessed for indicators of impairment at the end of each reporting period. Financial assets are considered to be impaired when there is objective evidence that, as a result of one or more events that occurred after the initial recognition of the financial asset, the estimated future cash flows of the investment have been affected.

Financial assets carried at amortized cost, such as trade receivables, are assessed for impairment on a collective basis even if they were assessed not to be impaired individually. Objective evidence of impairment for a portfolio of receivables could include the Company's past experience with collecting payments, an increase in the number of delayed payments in the portfolio, as well as observable changes in national or local economic conditions that correlate with defaults on receivables.

For a financial asset carried at amortized cost, the amount of the impairment loss recognized is the difference between the asset's carrying amount and the present value of estimated future cash flows, discounted at the financial asset's original effective interest rate.

For a financial asset carried at amortized cost, if, in a subsequent period, the amount of the impairment loss decreases and the decrease can be related objectively to an event occurring after the impairment was recognized, the previously recognized impairment loss is reversed through profit or loss to the extent that the carrying amount of the investment (at the date on which the impairment is reversed) does not exceed what the amortized cost would have been had the impairment not been recognized.

For available-for-sale equity investments, a significant or prolonged decline in the fair value of the security below its cost is considered to be objective evidence of impairment.

For all other financial assets, objective evidence of impairment could include significant financial difficulty of the issuer or counterparty, breach of contract such as a default or delinquency in interest or principal payments, it becoming probable that the borrower will enter bankruptcy or financial re-organization, or the disappearance of an active market for that financial asset because of financial difficulties.

When an available-for-sale financial asset is considered to be impaired, cumulative gains or losses previously recognized in other comprehensive income are reclassified to profit or loss in the period.

In respect of available-for-sale equity securities, impairment loss previously recognized in profit or loss is not reversed through profit or loss. Any increase in fair value subsequent to impairment is recognized in other comprehensive income. In respect of available-for-sale debt securities, impairment loss is subsequently reversed through profit or loss if an increase in the fair value of the investment can be objectively related to an event occurring after the recognition of the impairment loss.

For a financial assets that are measured at cost, the amount of the impairment loss is measured as the difference between the asset's carrying amount and the present value of the estimated future cash flows discounted at the current market rate of return for a similar financial asset. Such impairment loss will not be reversed in subsequent periods.

The carrying amount of a financial asset is reduced by the impairment loss directly for all financial assets, with the exception of accounts receivable, where the carrying amount is reduced through the use of an allowance account. When accounts receivable are considered uncollectable, they are written off against the allowance account. Subsequent recoveries of amounts previously written off are credited against the allowance account. Changes in the carrying amount of the allowance account are recognized in profit or loss except for uncollectable accounts receivable that are written off against the allowance account.

#### c) Derecognition of financial assets

The Corporation derecognizes a financial asset only when the contractual rights to the cash flows from the asset expire or when it transfers the financial asset and substantially all the risks and rewards of ownership of the asset to another party.

Before 2018, on derecognition of a financial asset in its entirety, the difference between the asset's carrying amount and the sum of the consideration received and receivable and the cumulative gain or loss which had been recognized in other comprehensive income is recognized in profit or loss. Starting from 2018, on derecognition of a financial asset at amortized cost in its entirety, the difference between the asset's carrying amount and the sum of the consideration received and receivable is recognized in profit or loss. However, on derecognition of an investment in an equity instrument at financial assets at FVTOCI, the difference between the asset's carrying amount and the sum of the consideration received and receivable is recognized in profit or loss, and the cumulative gain or loss which had been

recognized in other comprehensive income is transferred directly to retained earnings, without recycling through profit or loss.

## 2) Equity instruments

Debt and equity instruments issued by the Corporation are classified as either financial liabilities or as equity in accordance with the substance of the contractual arrangements and the definitions of a financial liability and an equity instrument.

Equity instruments issued by the Corporation are recognized at the proceeds received, net of direct issue costs.

The repurchase of the Corporation's own equity instruments is recognized in and deducted directly from equity. No gain or loss is recognized in profit or loss on the purchase, sale, issuance or cancellation of the Corporation's own equity instruments.

# 3) Financial liabilities

#### a) Subsequent measurement

Except for financial liabilities at fair value through profit or loss, all financial liabilities are carried at amortized cost using the effective interest method.

Financial liabilities are classified as at fair value through profit or loss when any such financial liability is held for trading. Financial liabilities at fair value through profit or loss are stated at fair value, with any gains or losses arising on remeasurement recognized in profit or loss.

### b) Derecognition of financial liabilities

The difference between the carrying amount of the financial liability derecognized and the consideration paid, including any non-cash assets transferred or liabilities assumed, is recognized in profit or loss.

# 4) Convertible bonds

The component parts of compound instruments (i.e. convertible bonds) issued by the Corporation are classified separately as financial liabilities and equity in accordance with the substance of the contractual arrangements and the definitions of a financial liability and an equity instrument.

On initial recognition, the fair value of the liability component is estimated using the prevailing market interest rate for similar non-convertible instruments. This amount is recorded as a liability on an amortized cost basis using the effective interest method until extinguished upon conversion or upon the instrument's maturity date. Any embedded derivative liability is measured at fair value.

The conversion option classified as equity is determined by deducting the amount of the liability component from the fair value of the compound instrument as a whole. This is recognized and included in equity, net of income tax effects, and is not subsequently remeasured. In addition, the conversion option classified as equity will remain in equity until the conversion option is exercised; in which case, the balance recognized in equity will be transferred to capital surplus - share premiums. When the conversion option remains unexercised at maturity, the balance recognized in equity will be transferred to capital surplus - share premiums.

Transaction costs that relate to the issuance of the convertible notes are allocated to the liability and equity components in proportion to the allocation of the gross proceeds. Transaction costs relating to the equity component are recognized directly in equity. Transaction costs relating to the liability component are included in the carrying amount of the liability component.

#### 5) Derivative financial instruments

The Corporation enters into derivative financial instruments to manage its exposure to foreign exchange rate risks, including foreign exchange forward contracts.

Derivatives are initially recognized at fair value at the date the derivative contracts are entered into and are subsequently remeasured to their fair value at the end of each reporting period. The resulting gain or loss is recognized in profit or loss immediately unless the derivative is designated and effective as a hedging instrument, and in which event the timing of the recognition in profit or loss depends on the nature of the hedging relationship. When the fair value of a derivative financial instrument is positive, the derivative is recognized as a financial asset; when the fair value of a derivative financial instrument is negative, the derivative is recognized as a financial liability.

Before 2018, derivatives embedded in non-derivative host contracts were treated as separate derivatives when they met the definition of a derivative; their risks and characteristics were not closely related to those of the host contracts; and the contracts were not measured financial assets at FVTPL. Starting from 2018, derivatives embedded in hybrid contracts that contain financial asset hosts that is within the scope of IFRS 9 are not separated; instead, the classification is determined in accordance with the entire hybrid contract. Derivatives embedded in non-derivative host contracts that are not financial assets that is within the scope of IFRS 9 (e.g. financial liabilities) are treated as separate derivatives when they meet the definition of a derivative; their risks and characteristics are not closely related to those of the host contracts; and the host contracts are not measured financial assets at FVTPL.

### m. Revenue recognition

#### 2018

The Corporation identifies contracts with customers, allocates the transaction price to the performance obligations and recognizes revenue when performance obligations are satisfied.

## 1) Revenue from the sale of goods

Sales of goods are recognized as revenue when the goods are delivered to the customer's specific location and the control of the products has transferred to the customer.

### 2) Revenue from the rendering of services

Revenue from the rendering of services is recognized by reference to the stage of completion of the contract or when services are provided.

## 2017

Revenue is measured at the fair value of the consideration received or receivable. Revenue is reduced for estimated customer returns, rebates and other similar allowances. Allowances for sales returns and liabilities for returns are recognized at the time of sale based on the seller's reliable estimate of future returns and based on past experience and other relevant factors.

#### 1) Sale of goods

Revenue from the sale of goods is recognized when all the following conditions are satisfied:

a) The Corporation has transferred to the buyer the significant risks and rewards of ownership of the goods;

- b) The Corporation retains neither continuing managerial involvement to the degree usually associated with ownership nor effective control over the goods sold;
- c) The amount of revenue can be measured reliably;
- d) It is probable that the economic benefits associated with the transaction will flow to the Corporation; and
- e) The costs incurred or to be incurred in respect of the transaction can be measured reliably.

#### 2) Dividend and interest income

Dividend income from investments is recognized when a shareholder's right to receive payment has been established provided that it is probable that the economic benefits will flow to the Corporation and the amount of income can be measured reliably.

Interest income from a financial asset is recognized when it is probable that the economic benefits will flow to the Corporation and the amount of income can be measured reliably. Interest income is accrued on a time basis, by reference to the principal outstanding and at the applicable effective interest rate.

# n. Leasing

Leases are classified as finance leases whenever the terms of a lease transfer substantially all the risks and rewards of ownership to the lessee. All other leases are classified as operating leases.

#### 1) The Corporation as lessor

Amounts due from lessees under finance leases are recognized as receivables at the amount of the Corporation's net investment in the leases. Finance lease income is allocated to accounting periods so as to reflect a constant periodic rate of return on the Corporation's net investment outstanding in respect of the leases.

Rental income from operating leases is recognized on a straight-line basis over the term of the relevant lease.

#### 2) The Corporation as lessee

Assets held under finance leases are initially recognized as assets of the Corporation at their fair value at the inception of the lease or, if lower, at the present value of the minimum lease payments. The corresponding liability to the lessor is included in the consolidated balance sheets as a finance lease obligation.

Finance expenses implicit in lease payments for each period are recognized immediately in profit or loss, unless they are directly attributable to qualifying assets; in which case, they are capitalized.

Operating lease payments are recognized as expenses on a straight-line basis over the lease term.

#### o. Borrowing costs

Borrowing costs directly attributable to the acquisition, construction or production of qualifying assets are added to the cost of those assets, until such time as the assets are substantially ready for their intended use or sale.

Investment income earned on the temporary investment of specific borrowings pending their expenditure on qualifying assets is deducted from the borrowing costs eligible for capitalization.

Other than that which is stated above, all other borrowing costs are recognized in profit or loss in the year in which they are incurred.

## p. Employee benefits

# 1) Short-term employee benefits

Liabilities recognized in respect of short-term employee benefits are measured at the undiscounted amount of the benefits expected to be paid in exchange for the related services.

#### 2) Retirement benefits

Payments to defined contribution retirement benefit plans are recognized as an expense when employees have rendered services entitling them to the contributions.

Defined benefit costs (including service costs, net interest and remeasurement) under the defined benefit retirement benefit plans are determined using the projected unit credit method. Service costs and net interest on the net defined benefit asset are recognized as an employee benefits expense in the period in which they occur. Remeasurement, comprising actuarial gains and losses and the return on plan assets (excluding interest), is recognized in other comprehensive income in the period in which it occurs. Remeasurement recognized in other comprehensive income is reflected immediately in retained earnings and will not be reclassified to profit or loss.

The net defined benefit asset represents the actual surplus in the Corporation's defined benefit plan. Any surplus resulting from this calculation is limited to the present value of any refunds from the plan or reductions in future contributions to the plan.

# 3) Other long-term employee benefits

Other long-term employee benefits are accounted for in the same way as the accounting required for a defined benefit plan except that remeasurement is recognized in profit or loss.

# q. Share-based payment arrangements

The fair value at the grant date of the equity-settled share-based payments is expensed on a straight-line basis over the vesting period, based on the Corporation's best estimates of the number of shares or options that are expected to ultimately vest, with a corresponding increase in capital surplus - employee share options. It is recognized as an expense in full at the grant date if vested immediately. The grant date of issued ordinary shares for cash which are reserved for employees and treasury shares transferred to employees is the date on which the number of shares purchased by employees purchase is confirmed

#### r. Taxation

Income tax expense represents the sum of the tax currently payable and deferred tax.

#### 1) Current tax

According to the Income Tax Law of the Republic of China, an additional tax at 10% of unappropriated earnings is provided for as income tax in the year the shareholders approve to retain earnings.

Adjustments of prior years' tax liabilities are added to or deducted from the current year's tax provision.

#### 2) Deferred tax

Deferred tax is recognized on temporary differences between the carrying amounts of assets and liabilities and the corresponding tax bases used in the computation of taxable profit.

Deferred tax liabilities are generally recognized for all taxable temporary differences. Deferred tax assets are generally recognized for all deductible temporary differences, unused loss carryforwards and unused tax credits for research and development expenditures to the extent that it is probable that taxable profits will be available against which those deductible temporary differences can be utilized.

Deferred tax liabilities are recognized for taxable temporary differences associated with investments in subsidiaries, associates and joint ventures, except where the Corporation is able to control the reversal of the temporary difference and it is probable that the temporary difference will not reverse in the foreseeable future. For deferred tax assets arising from deductible temporary differences associated with such investments and interests are only recognized to the extent that it is probable that there will be sufficient taxable profits against which to utilize the benefits of the temporary differences and they are expected to reverse in the foreseeable future.

The carrying amount of deferred tax assets is reviewed at the end of each reporting period and reduced to the extent that it is no longer probable that sufficient taxable profits will be available to allow all or part of the assets to be recovered. A previously unrecognized deferred tax asset is also reviewed at the end of each reporting period and recognized to the to the extent that it has become probable that future taxable profit will allow the deferred tax asset to be recovered.

Deferred tax liabilities and assets are measured at the tax rates that are expected to apply in the year in which the liabilities are settled or the assets are realized, based on tax rates and tax laws that have been enacted or substantively enacted by the end of the reporting period. The measurement of deferred tax liabilities and assets reflects the tax consequences that would follow from the manner in which the Corporation expects, at the end of the reporting period, to recover or settle the carrying amount of its assets and liabilities.

## 3) Current and deferred taxes for the year

Current and deferred taxes are recognized in profit or loss, except when they relate to items that are recognized in other comprehensive income or directly in equity, and in which case, the current and deferred taxes are also recognized in other comprehensive income or directly in equity. Where current tax or deferred tax arises from the initial accounting for the acquisition of a subsidiary, the tax effect is included in the accounting for the acquisition of a subsidiary.

# 5. CRITICAL ACCOUNTING JUDGMENTS AND KEY SOURCES OF ESTIMATION UNCERTAINTY

In the application of the Corporation's accounting policies, management is required to make judgments, estimation and assumptions about the carrying amounts of assets and liabilities that are not readily apparent from other sources. The estimates and associated assumptions are based on historical experience and other factors that are considered relevant. Actual results may differ from these estimates.

The estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognized in the period in which the estimates are revised if the revision affects only that period or in the period of the revision and future periods if the revision affects both current and future periods.

# **Equity-method Investments**

The Corporation immediately recognizes impairment loss on its net investments in subsidiaries and associates when there is any indication that an investment may be impaired and the carrying amount may not be recoverable. The Corporation's management evaluates such impairment based on the estimated future cash flow expected to be generated by the investments accounted for by using the equity method. The Corporation also takes into consideration the market conditions and industry developments to evaluate the appropriateness of the relevant assumptions.

# 6. CASH AND CASH EQUIVALENTS

|  | December 31 |            |               |
|--|-------------|------------|---------------|
|  |             | 2018       | 2017          |
| Cash on hand   | \$          | 1,276      | \$<br>986     |
| Checking accounts and demand deposits                        |             | 4,808,221  | 595,152       |
| Cash equivalents   |             |            |               |
| Time deposits with original maturities of less than 3 months |             | 6,834,188  | -             |
| Bonds with repurchase agreements                             |             | <u> </u>   | <br>163,707   |
|  | \$          | 11,643,685 | \$<br>759,845 |

The market rate intervals of cash in banks and bonds with repurchase agreements at the end of the reporting period were as follows:

|  | December 31 |             |
|--|-------------|-------------|
|  | 2018        | 2017        |
| Cash in banks  | 0.01-2.83%  | 0.01%-0.08% |
| Time deposits with original maturities of less than 3 months | 0.13-3.05%  | -           |
| Bonds with repurchase agreements                             | -           | 2%          |

# 7. FINANCIAL INSTRUMENTS AT FAIR VALUE THROUGH PROFIT OR LOSS

|  | December 31,<br>2018                      |
|--|---|
| Financial assets at FVTPL - current  |   |
| Financial assets mandatorily classified as at FVTPL Non-derivative financial assets Domestics listed shares Domestics emerging market shares | \$ 163,810<br><u>85,780</u><br>\$ 249,590 |
| Financial liabilities at FVTPL - current   |   |
| Financial liabilities held for trading Derivative financial liabilities (not under hedge accounting) Convertible options                     | <u>\$ 139,460</u>                         |

# 8. FINANCIAL ASSETS AT FAIR VALUE THROUGH OTHER COMPREHENSIVE INCOME - 2018

|  | December 31,<br>2018 |
|--|----------------------|
| Current  |                      |
| Domestic investments Listed shares Preference shares | \$ 3,323,490         |
| Non-current  |                      |
| Domestic investments Unlisted shares                 | <u>\$ 4,385,175</u>  |

These investments in equity instruments were classified as available-for-sale and financial assets carried at cost under IAS 39. Refer to Note 3 and Note 9 for information relating to their reclassification and comparative information for 2017.

During 2018, the Corporation paid \$475,352 thousand and \$2,854,637 thousand to acquire shares of E-ONE Moli Energy Corporation and International CSRC Investment Holdings Co., Ltd., respectively. The investments increased the Corporation's percentage of ownership from 0.4% to 16.0% and 8.8% to 15.6%. With a significant impact on the investee, the original investments previously recognized as financial assets at FVTOCI were considered as disposed of and reclassified to investments accounted for by using the equity method. The amount of \$1,321,032 thousand, which was previously recognized as other equity - unrealized gain (loss) on financial assets at FVTOCI, was reclassified to retained earnings.

#### 9. AVAILABLE-FOR-SALE FINANCIAL ASSETS - 2017

|   | December 31, 2017                |
|---|----------------------------------|
| Domestic investments Listed shares Emerging market shares | \$ 6,071,300<br><u>89,037</u>    |
|   | <u>\$ 6,160,337</u>              |
| Current<br>Non-current                                    | \$ 3,740,687<br><u>2,419,650</u> |
|   | \$ 6,160,337                     |

#### 10. NOTES AND ACCOUNTS RECEIVABLE

|                                     | December 31         |              |
|-------------------------------------|---------------------|--------------|
|                                     | 2018                | 2017         |
| Measured at amortized cost          |                     |              |
| Notes receivable                    | \$ 1,068,694        | \$ 993,082   |
| Accounts receivable                 | 2,856,883           | 2,222,804    |
| Less: Allowance for impairment loss | (43,171)            | (41,666)     |
|                                     | <u>\$ 3,882,406</u> | \$ 3,174,220 |

# 2018

The Corporation recognizes allowance for impairment loss on account receivable on the basis of individual customers for which credit losses have actually taken place. Moreover, the Corporation separates all customers into different segments based on their risk and determines their expected credit loss rate by reference to past default experience with the counterparties and on analysis of their current financial positions. The Group recognizes an allowance for impairment loss of 100% against past due receivables which have indication of impairment.

The Corporation writes off an account receivable when there is information indicating that the debtor is experiencing severe financial difficulty and there is no realistic prospect of recovery of the receivable. For accounts receivables that have been written off, the Corporation continues to engage in enforcement activity to attempt to recover the receivables which are due. Where recoveries are made, these are recognized in profit or loss.

The aging analysis of receivables was as follows:

|               | December 31,<br>2018 |
|---------------|----------------------|
| Up to 90 days | \$ 3,809,004         |
| 91-180 days   | 51,950               |
| 181-365 days  | 11,147               |
| Over 365 days | 10,305               |
|               | <u>\$ 3,882,406</u>  |

The above aging schedule was based on the number of days past due from the invoice date.

The movements of the allowance for doubtful notes and accounts receivable were as follows:

|  | For the Year<br>Ended<br>December 31,<br>2018 |
|--|---|
| Balance at January 1, 2018 per IAS 39<br>Adjustment on initial application of IFRS 9 | \$ 41,666                                     |
| Balance at January 1, 2018 per IFRS 9  | 41,666  |
| Less: Impairment losses  | 2,524   |
| Less: Amounts written off  | (1,019)                                       |
| Balance at December 31, 2018   | <u>\$ 43,171</u>                              |

# 2017

In determining the recoverability of notes and accounts receivable, the Corporation considered any change in the credit quality of the notes and accounts receivable since the date credit was initially granted to the end of the reporting period. The Corporation recognized an allowance for impairment loss of 100% against receivables when there was indication that the receivable was impaired, and the allowance for impairment loss was recognized against the rest of the past due receivables based on the estimated irrecoverable amounts determined by reference to the past default experience with the counterparties and an analysis of their current financial positions.

For the accounts receivable balances that were past due at the end of the reporting period, the Corporation did not recognize an allowance for impairment loss, because there was no significant change in the credit quality and the amounts were still considered recoverable.

The Corporation had a wide range of unrelated customers; hence, the concentration in credit risk is relatively limited.

The aging analysis of receivables was as follows:

|               | December 31,<br>2017 |
|---------------|----------------------|
| Up to 90 days | \$ 3,076,458         |
| 91-180 days   | 64,741               |
| 181-365 days  | 10,012               |
| Over 365 days | 23,009               |
|               | <u>\$ 3,174,220</u>  |

The above aging schedule was based on the number of days past due from the invoice date

The movements of the allowance for doubtful notes and accounts receivable were as follows:

|  | Individually<br>Assessed for<br>Impairment | Collectively<br>Assessed for<br>Impairment | Total                       |
|--|--|--|-----------------------------|
| Balance at January 1, 2017<br>(Reversal of) allowances<br>Write-offs | \$ 10,648<br>(2,822)<br>(1,114)            | \$ 32,046<br>3,465<br>(557)                | \$ 42,694<br>643<br>(1,671) |
| Balance at December 31, 2017   | <u>\$ 6,712</u>                            | <u>\$ 34,954</u>                           | <u>\$ 41,666</u>            |

## 11. INVENTORIES

|                 | December 31         |                     |
|-----------------|---------------------|---------------------|
|                 | 2018                | 2017                |
| Finished goods  | \$ 462,208          | \$ 482,742          |
| Work in process | 459,491             | 494,038             |
| Raw materials   | 181,644             | 408,942             |
| Supplies        | <u>272,930</u>      | 269,576             |
|                 | <u>\$ 1,376,273</u> | <u>\$ 1,655,298</u> |

The cost of inventories recognized as cost of goods sold for the years ended December 31, 2018 and 2017 was \$15,549,793 thousand and \$14,440,950 thousand, respectively. The cost of goods sold included inventory write-downs of \$6,401 thousand and \$19,519 thousand for 2018 and 2017, respectively.

# 12. INVESTMENTS ACCOUNTED FOR BY USING THE EQUITY METHOD

|  | December 31           |                             |
|--|-----------------------|-----------------------------|
|  | 2018                  | 2017                        |
| Investments in subsidiaries<br>Investments in associates | \$ 197,415,667<br>    | \$ 116,926,940<br>1,182,032 |
|  | <u>\$ 205,397,811</u> | \$ 118,108,972              |

# a. Investments in subsidiaries

|   | December 31           |                       |  |
|---|-----------------------|-----------------------|--|
|   | 2018                  | 2017                  |  |
| Listed company                                      |                       |                       |  |
| Taiwan Prosperity Chemical Corporation              | \$ 1,413,309          | \$ 1,608,901          |  |
| Unlisted companies                                  | , , -,                | , , , , , , , ,       |  |
| TCC International Ltd. ("TCCI")                     | 85,867,527            | 60,108,134            |  |
| TCC International Holdings Ltd. ("TCCIH")           | 44,167,192            | 19,054,259            |  |
| Taiwan Cement (Dutch) Holdings B.V. (Taiwan Cement  | , ,                   | , ,                   |  |
| Dutch)  | 29,471,481            | _                     |  |
| Ho-Ping Power Company                               | 17,059,967            | 18,612,533            |  |
| Hoping Industrial Port Corporation                  | 5,658,439             | 5,525,572             |  |
| TCC Investment Corporation                          | 3,099,705             | 2,056,607             |  |
| Ta-Ho Maritime Corporation                          | 2,296,422             | 2,029,315             |  |
| Taiwan Transport & Storage Corporation              | 1,815,949             | 1,698,943             |  |
| TCC Green Energy Corporation                        | 1,529,333             | 179,619               |  |
| Ho Sheng Mining Co., Ltd.                           | 1,069,417             | 1,014,025             |  |
| TCC Chemical Corporation                            | 942,433               | 1,539,861             |  |
| Taiwan Cement Engineering Corporation               | 710,129               | 698,982               |  |
| Kuan-Ho Refractories Industry Corporation           | 453,906               | 394,925               |  |
| Feng Sheng Enterprise Company                       | 348,471               | 347,734               |  |
| Hong Kong Cement Manufacturing Co., Ltd. ("HKCMCL") | 323,022               | 277,915               |  |
| Ta-Ho Onyx Taitung Environment Co., Ltd.            | 297,188               | 296,329               |  |
| TCC Information Systems Corporation                 | 251,946               | 272,046               |  |
| Jin Chang Minerals Corporation                      | 220,012               | 157,214               |  |
| Ta-Ho Onyx RSEA Environment Co., Ltd.               | 200,431               | 207,094               |  |
| HPC Power Service Corporation                       | 114,457               | 107,200               |  |
| E.G.C. Cement Corporation                           | 103,579               | 98,110                |  |
| Tung Chen Mineral Corporation                       | 1,352                 | 1,394                 |  |
| Kuan-Ho Construction & Development Corporation      | <u> </u>              | 640,228               |  |
|   | <u>\$ 197,415,667</u> | <u>\$ 116,926,940</u> |  |

# Proportion of Ownership and Voting Rights

|   | December 31         |        |
|---|---------------------|--------|
|   | 2018                | 2017   |
| Listed company  |                     |        |
| Taiwan Prosperity Chemical Corporation (Note 1)         | 40.0%               | 50.0%  |
| Unlisted companies                                      | <del>4</del> 0.0 /t | 30.070 |
| TCCI (Note 2)   | 100.0%              | 100.0% |
| TCCIH (Note 2)  | 38.3%               | 24.1%  |
| Taiwan Cement Dutch (Note 3)                            | 100.0%              | 24.170 |
| Ho-Ping Power Company                                   | 59.5%               | 59.5%  |
| Hoping Industrial Port Corporation                      | 100.0%              | 100.0% |
| TCC Investment Corporation                              | 100.0%              | 100.0% |
| Ta-Ho Maritime Corporation                              | 64.8%               | 64.8%  |
| Taiwan Transport & Storage Corporation                  | 83.9%               | 83.9%  |
| TCC Green Energy Corporation (Note 4)                   | 100.0%              | 100.0% |
| Ho Sheng Mining Co., Ltd.                               | 100.0%              | 100.0% |
| TCC Chemical Corporation (Note 5)                       | 100.0%              | 100.0% |
| Taiwan Cement Engineering Corporation                   | 99.0%               | 99.0%  |
| Kuan-Ho Refractories Industry Corporation               | 95.3%               | 95.3%  |
| Feng Sheng Enterprise Company (Note 6)                  | 45.4%               | 45.4%  |
| HKCMCL  | 84.7%               | 84.7%  |
| Ta-Ho Onyx Taitung Environment Co., Ltd.                | 100.0%              | 100.0% |
| TCC Information Systems Corporation                     | 99.4%               | 99.4%  |
| Jin Chang Minerals Corporation                          | 100.0%              | 100.0% |
| Ta-Ho Onyx RSEA Environment Co., Ltd.                   | 66.6%               | 66.6%  |
| HPC Power Service Corporation                           | 60.0%               | 60.0%  |
| E.G.C. Cement Corporation                               | 50.6%               | 50.6%  |
| Tung Chen Mineral Corporation                           | 99.5%               | 99.5%  |
| Kuan-Ho Construction & Development Corporation (Note 5) | -                   | 92.9%  |
| TMC (Note 7)  | 72.7%               | 72.7%  |
| TPMC (Note 6 and 7)                                     | 40.0%               | 40.0%  |
| ,   |                     |        |

- Note 1: The Corporation adjusted the structure of the its's internal investment. The Corporation successively disposed of a portion of its interest in Taiwan Prosperity Chemical Corporation in 2018, but the Corporation still have the control on it after disposal.
- Note 2: Refer to Note 23 and Notes of the consolidated financial report of 2018 for disclosure on the Corporation and TCCI's arrangement to privatize TCCIH. In addition, the Corporation increased its investment in the capital of TCCI and TCCIH by \$15,340,125 thousand and \$21,576,350 thousand, but TCCI did not simultaneously increase its investment in the capital of TCCIH. Thus, the Corporation's percentage of ownership in TCCIH increased from 24.1% to 33.8%.
- Note 3: Dutch OYAK TCC Holdings B.V., a joint venture, by cooperating with Taiwan Cement Dutch and Ordu Yardimlasma Kurumu in November 2018. The Group obtained 40% of interests of joint venture investing in cash and indirectly acquired the cement investment projects in areas such as Turkey. The Corporation invested \$29,470,972 thousand to establish Taiwan Cement Dutch in 2018.

- Note 4: Tunwoo Company Limited changed its Chinese-language name to TCC Green Energy Corporation in March 2018. Its original main business was warehousing and selling cement. A resolution of its board of directors resolved to change its main business to renewable energy generation in October 2017. The Corporation increased its capital in the amount of \$1,400,000 thousand in TCC Green Energy Corporation in July 2018.
- Note 5: TCC Chemical Corporation changed its Chinese-language name in December 2017. Its original main business was processing and selling chemical materials. Its board of directors resolved to change its main business to leasing property and energy technology services in November 2017. For the propose of streamlining its investment structure, its board of directors approved to merge Kuan-Ho Construction & Development Corporation and TCC Chemical Corporation with the latter as the surviving company. The effective date of the merger was January 1, 2018.
- Note 6: Although the Corporation's percentages of ownership in Taiwan Prosperity Chemical Corporation, Feng Sheng Enterprise Company and TPMC were less than 50% for the years ended December 31, 2018 and 2017, the Corporation still has control over those entities. Thus, Taiwan Prosperity Chemical Corporation, Feng Sheng Enterprise Company and TPMC are considered as subsidiaries of the Corporation.
- Note 7: Due to investment losses incurred, the investments in TMC and TPMC had credit balances of \$20,149 thousand and \$20,691 thousand as of December 31, 2018 and 2017, respectively, which were recorded in other non-current liabilities.

The Corporation used a discount rate of 9.3% to assess the recoverable amount of subsidiaries for the years ended December 31, 2017 and recognized an impairment loss of \$156,000 thousand.

The investments accounted for by using the equity method and the share of profit or loss and other comprehensive income of those investments for the years ended December 31, 2018 and 2017 were based on the subsidiaries' audited financial statements for the same years except for the financial statements of TMC and TPMC. The Corporation considered that there would be no significant adjustments if such financial statements were to be audited.

#### b. Investments in associates

|  | December 31  |                     |  |
|--|--------------|---------------------|--|
|  | 2018         | 2017                |  |
| Material associates                              |              |                     |  |
| International CSRC Investment Holdings Co., Ltd. | \$ 5,040,286 | \$ -                |  |
| Associates that are not individually material    |              |                     |  |
| CCC USA Corporation                              | 1,625,444    | 694,072             |  |
| ONYX Ta-Ho Environmental Services Co., Ltd.      | 786,226      | 481,263             |  |
| E-ONE Moli Energy Corporation                    | 523,197      | -                   |  |
| Synpac Ltd.                                      | 6,991        | 6,697               |  |
|  | \$ 7,982,144 | <u>\$ 1,182,032</u> |  |

#### c. Material associates

|  | Proportion of Ownership December 31 |      |
|--|-------------------------------------|------|
|  |                                     |      |
|  | 2018                                | 2017 |
| International CSRC Investment Holdings Co., Ltd. | 15.6%                               | 8.8% |

Refer to Table 8 "Information on investees" following the Notes to Financial Statements for the nature of activities, principal place of business and country of incorporation of International CSRC Investment Holdings Co., Ltd. The investment accounted for by using the equity method and the share of profit or loss and other comprehensive income of the investment for the years ended December 31, 2018 and 2017 was based on the associate's financial statements audited by the auditors for the years then ended.

Summarized financial information in respect of International CSRC Investment Holdings Co., Ltd. was as follows:

# International CSRC Investment Holdings Co., Ltd.

|  | December 31,<br>2018  |
|--|---|
| Current assets Non-current assets Current liabilities Non-current liabilities Non-controlling equity | \$ 28,454,557<br>21,479,581<br>(11,095,422)<br>(6,583,390)<br>(2,664,235) |
| Equity attributable to the parent company  | <u>\$ 29,591,091</u>  |
| Proportion of the Corporation's ownership  | 15.6%   |
| Equity attributable to the Corporation Difference between cost of investment and holding equity      | \$ 4,611,955<br>428,331   |
| Carrying amount  | <u>\$ 5,040,286</u>   |
|  | For the Year<br>Ended<br>December 31,<br>2018                             |
| Operating revenue  | <u>\$ 24,431,724</u>  |
| Net income for the year<br>Other comprehensive income  | \$ 3,252,459<br>522,452   |
| Total comprehensive income for the year  | <u>\$ 3,774,911</u>   |

Fair value (level 1) of International CSRC Investment Holdings Co., Ltd. with available published price quotations is \$5,290,198 thousand.

c. Aggregate information of associates that are not individually material is as follows:

|   | Proportion of Ownership and Voting Rights |                   |  |
|---|---|-------------------|--|
|   | December 31                               |                   |  |
|   | 2018                                      | 2017              |  |
| CCC USA Corporation                         | 33.30%                                    | 33.30%            |  |
| ONYX Ta-Ho Environmental Services Co., Ltd. | 50.00%                                    | 50.00%            |  |
| E-ONE Moli Energy Corporation               | 16.00%                                    | 0.4%              |  |
| Synpac Ltd.                                 | 25.00%                                    | 25.00%            |  |
|   | For the Year Ended December               |                   |  |
|   | 2018                                      | 2017              |  |
| The Corporation's share of:                 |   |                   |  |
| Net profit for the year                     | \$ 484,786                                | \$ 272,421        |  |
| Other comprehensive income (loss)           | <u>25,378</u>                             | (55,906)          |  |
| Total comprehensive income for the year     | <u>\$ 510,164</u>                         | <u>\$ 216,515</u> |  |

For the year ended December 31, 2018, the Corporation paid \$475,352 thousand and \$2,854,637 thousand to acquire shares of E-ONE Moli Energy Corporation and International CSRC Investment Holdings Co., Ltd., respectively. The Corporation increased its percentage of ownership from 0.4% to 16% and 8.8% to 15.6%. With a significant impact on the investee, the original investments previously recognized as financial assets at FVTOCI were reclassified to investments accounted for by using the equity method.

For the year ended December 31, 2018, the Corporation paid \$802,438 thousand to acquire shares of CCC USA Corp. according to shareholding ratio.

The investments accounted for by using the equity method and the share of profit or loss and other comprehensive income of the investments for the years ended December 31, 2018 and 2017 were based on the associates' audited financial statements for the years ended.

# 13. PROPERTY, PLANT AND EQUIPMENT

|  | Land                         | Buildings                   | Machinery and<br>Equipment                    | Miscellaneous<br>Equipment               | Total  |
|--|------------------------------|-----------------------------|---|--|--|
| Cost   |                              |                             |   |  |  |
| Balance at January 1, 2017<br>Additions<br>Disposals<br>Reclassification | \$ 18,117,555<br>-<br>-<br>- | \$ 16,136,609<br>1,995<br>- | \$ 23,754,338<br>15,693<br>(79,635)<br>23,881 | \$ 3,967,481<br>14,580<br>(61,977)<br>18 | \$ 61,975,983<br>32,268<br>(141,612)<br>23,899 |
| Balance at December 31, 2017   | <u>\$ 18,117,555</u>         | \$ 16,138,604               | <u>\$ 23,714,277</u>                          | <u>\$ 3,920,102</u>                      | \$ 61,890,538                                  |
| Accumulated depreciation and impairment                                  |                              |                             |   |  |  |
| Balance at January 1, 2017<br>Depreciation expenses<br>Disposals         | \$ 274,188                   | \$ 7,322,550<br>322,876     | \$ 22,580,733<br>167,581<br>(75,371)          | \$ 3,733,838<br>46,357<br>(59,391)       | \$ 33,911,309<br>536,814<br>(134,762)          |
| Balance at December 31, 2017   | <u>\$ 274,188</u>            | <u>\$ 7,645,426</u>         | <u>\$ 22,672,943</u>                          | <u>\$ 3,720,804</u>                      | <u>\$ 34,313,361</u>                           |
| Carrying amounts at December 31, 2017                                    | <u>\$ 17,843,367</u>         | <u>\$ 8,493,178</u>         | \$ 1,041,334                                  | <u>\$ 199,298</u>                        | \$ 27,577,177<br>(Continued)                   |

|   | Land                         | Buildings                                      | Machinery and<br>Equipment                        | Miscellaneous<br>Equipment               | Total   |
|---|------------------------------|--|---|--|---|
| Cost  |                              |  |   |  |   |
| Balance at January 1, 2018<br>Additions<br>Disposals<br>Reclassification              | \$ 18,117,555<br>-<br>-<br>- | \$ 16,138,604<br>9,080<br>(276,997)            | \$ 23,714,277<br>58,896<br>(3,686,465)<br>10,130  | \$ 3,920,102<br>63,036<br>(369,784)      | \$ 61,890,538<br>131,012<br>(4,333,246)<br>10,130 |
| Balance at December 31, 2018  | <u>\$ 18,117,555</u>         | \$ 15,870,687                                  | \$ 20,096,838                                     | \$ 3,613,354                             | \$ 57,698,434                                     |
| Accumulated depreciation and impairment   |                              |  |   |  |   |
| Balance at January 1, 2018<br>Depreciation expenses<br>Impairment losses<br>Disposals | \$ 274,188                   | \$ 7,645,426<br>319,226<br>27,340<br>(161,615) | \$ 22,672,943<br>159,703<br>10,184<br>(3,652,620) | \$ 3,720,804<br>39,412<br>-<br>(363,863) | \$ 34,313,361<br>518,341<br>37,524<br>(4,178,098) |
| Balance at December 31, 2018  | <u>\$ 274,188</u>            | \$ 7,830,377                                   | <u>\$ 19,190,210</u>                              | \$ 3,396,353                             | \$ 30,691,128                                     |
| Carrying amounts at December 31, 2018   | <u>\$ 17,843,367</u>         | \$ 8,040,310                                   | \$ 906,628  | \$ 217,001                               | \$ 27,007,306<br>(Concluded)                      |

The above items of property, plant and equipment are depreciated on a straight-line basis over the estimated useful lives of the assets:

| Buildings               |             |
|-------------------------|-------------|
| Main buildings          | 50 years    |
| Main plants             | 15-50 years |
| Storage units           | 35-50 years |
| Others                  | 20-50 years |
| Machinery and equipment | 8-28 years  |
| Miscellaneous equipment | 2-20 years  |

In response to adjustment of operational strategies, the Corporation disposed of old equipment in some of its factories in 2018., recognizing a net loss of disposal of property, plant and equipment of \$140,615 thousand.

The Corporation evaluated partial of idle property, plant and equipments which without any remaining value in 2018. Therefore, the Corporation recognized impairment losses of \$37,524 thousand.

Property, plant and equipment pledged as collateral for performance bonds are set out in Note 27.

Acquisitions of property, plant and equipment included non-cash items and were reconciled as follows:

|   | For the Year Ended December 31 |                  |  |
|---|--------------------------------|------------------|--|
|   | 2018                           | 2017             |  |
| Acquisitions of property, plant and equipment | \$ 131,012                     | \$ 32,268        |  |
| Increase in prepayments for equipment         | 509,429                        | -                |  |
| Increase payables for equipment               | (28,386)                       | <del>_</del>     |  |
|   | <u>\$ 612,055</u>              | <u>\$ 32,268</u> |  |

# 14. INVESTMENT PROPERTIES

|                   | Decen                 | December 31            |  |  |
|-------------------|-----------------------|------------------------|--|--|
|                   | 2018                  | 2017                   |  |  |
| Land<br>Buildings | \$ 3,342,795<br>9,882 | \$ 3,342,795<br>10,113 |  |  |
|                   | <u>\$ 3,352,677</u>   | \$ 3,352,908           |  |  |

The buildings of the investment properties are depreciated over their estimated useful lives of 50 years, using the straight-line method.

The fair values of the investment properties were determined by independent qualified professional valuers or the Corporation's management using market prices of similar properties. As of December 31, 2018 and 2017, the fair values of investment properties were \$8,736,723 thousand.

# 15. BORROWINGS

#### a. Short-term loans

|  | December 31          |                                |  |
|--|----------------------|--------------------------------|--|
|  | 2018                 | 2017                           |  |
| Unsecured borrowings Bank loans - unsecured Bank loans - letters of credit | \$ 12,969,000<br>    | \$ 8,170,000<br><u>352,150</u> |  |
|  | <u>\$ 12,969,000</u> | \$ 8,522,150                   |  |
| Interest rate  | 0.80-1.11%           | 0.81%-2.26%                    |  |

# b. Short-term bills payable

|   | December 31         |                            |
|---|---------------------|----------------------------|
|   | 2018                | 2017                       |
| Commercial paper<br>Less: Unamortized discount on bills payable | \$ 1,500,000<br>326 | \$ 1,900,000<br><u>986</u> |
|   | <u>\$ 1,499,674</u> | \$ 1,899,014               |
| Interest rate   | 0.90-1.04%          | 0.90%                      |

c. Long-term loans and long-term bills payables

|  | December 31          |              |
|--|----------------------|--------------|
|  | 2018                 | 2017         |
| Syndicated loans                           | \$ 13,510,417        | \$ 7,276,733 |
| Long-term bills payables                   | 21,500,000           | _            |
| Less: Discount of long-term bills payables | 21,284               | <u> </u>     |
| Subtotal                                   | 21,478,716           | _            |
|  | 34,989,133           | 7,276,733    |
| Less: Current portions                     |                      | 7,276,733    |
|  | <u>\$ 34,989,133</u> | <u>\$</u>    |
| Interest rate - syndicated loan            | 1.79%                | 1.58%        |
| Interest rate - long-term bills payables   | 1.25%                | -            |

The Corporation entered into a 5-year syndicated loan agreement with a bank consortium with a credit line of \$43 billion in March 2018, which was divided into two tranches, A and B. The key terms and conditions are set forth below:

- 1) The credit facility of Tranche A is \$21.5 billion non-revolving credit line. The Corporation has used \$13.6 billion in December 2018. Starting from March 2021, its principle shall be repaid equally in 5 semi-annual installments and shall mature in March 2023; interest shall be paid quarterly.
- 2) The credit facility of Tranche B which is the nature of long-term bills payable is \$21.5 billion and shall be fully drawn down on a revolving basis in December 2018. The period of each actual drawdown can be at least 30 but not over 180 days, and the maturity date of each drawdown period shall not exceed the credit period. The final maturity date shall be in March 2023.

The Corporation entered into a 5-year syndicated loan agreement with a bank consortium with a credit line of \$14 billion in January 2013, which was divided into two tranches, A and B. The key terms and conditions are set forth below:

- 1) The credit facility of Tranche A is \$8.4 billion and shall be fully drawn down on a non-revolving basis in December 2013. Starting from June 2016, its principle shall be repaid equally in 5 semi-annual installments and shall mature in June 2018; interest shall be paid quarterly. Tranche A had already been repaid.
- 2) The credit facility of Tranche B is \$5.6 billion and shall be fully drawn down on a revolving basis in December 2013. The period of each actual drawdown can be 90, 180 or another agreed-upon number of days, not surpassing 180 days, agreed to by the bank management. In each drawdown period, interest shall be paid at least every 3 months and the last day of each drawdown period shall be the maturity date when the principal plus interest for such period shall be repaid. On the applicable maturity date of each drawdown period, the repayment can be offset against a new drawdown amount; the Corporation and respective syndicated banks need not proceed with the fund flow should the amount be the same. The final maturity date shall be in June 2018. Tranche B had already been repaid.

There were several financial limited terms of long-term loans and long-term bills payables as mentioned above.

The Corporation had not violated them for the year ended December 31, 2018.

#### 16. BONDS PAYABLE

|  | December 31,<br>2018           |
|--|--------------------------------|
| Domestic unsecured bonds<br>Less: Discounts on bonds payable | \$ 12,000,000<br><u>23,156</u> |
| Overseas unsecured convertible bonds                         | 11,976,844<br>12,663,477       |
| Less: Discounts on bonds payable                             | 1,862,628<br>10,800,849        |
|  | <u>\$ 22,777,693</u>           |

#### a. Domestic unsecured bonds

Domestic unsecured bonds were issued on June 21, 2018, with a period of 15 years which will mature on June 21, 2033. The bonds' total amount is \$12,000,000 thousand and has a coupon rate of 1.7%, with bullet repayment and interest paid annually.

#### b. Overseas unsecured convertible bonds

In June 2018, the Corporation's board of directors resolved to issue overseas unsecured convertible bonds for the first time. This proposal was approved and became effective under the letter issued by the Financial Supervisory Commission ("FSC") dated July 25, 2018 (Ref. No. Jin-Guan-Zheng-Fa-Zi 10703258532). The bonds whose durations are 5 years were listed on the Singapore Stock Exchange on December 10, 2018. This zero-coupon overseas convertible bonds have a face value of US\$400,000 thousand.

Bondholders may request the Corporation to convert the bonds into the Corporation's ordinary shares at NT\$41 per share and at the fixed exchange rate of US\$1.00 to NT\$30.878 divided by conversion price per share on conversion date within the period from the date following the expiry of three months of the issuance date to 10 days prior to maturity.

The convertible bonds contain both liability and equity components. The equity component was presented in equity under the heading of capital surplus - options. The effective interest rate of the liability component was 3.27% per annum on initial recognition.

|   | December 31,<br>2018 |
|---|----------------------|
| Proceeds from issuance (less transaction costs of \$103,353 thousand)   | \$ 12,247,847        |
| Redemption of option derivatives (accounting for financial liabilities measured at FVTPL) and transaction costs | (159,222)            |
| Equity component (less transaction costs allocated to the equity component of \$11,038 thousand)                | (1,308,070)          |
| Liability component at the date of issue (less transaction costs allocated to the                               |                      |
| liability component of \$90,971 thousand)   | 10,780,555           |
| Interest charged at an effective interest rate of 3.27%   | 20,294               |
| Liability component at December 31, 2018  | \$ 10,800,849        |

#### 17. OTHER PAYABLES

|                              | December 31 |           | 1  |           |
|------------------------------|-------------|-----------|----|-----------|
|                              |             | 2018      |    | 2017      |
| Salaries and bonuses payable | \$          | 621,318   | \$ | 513,866   |
| Payable for repairs          |             | 350,256   |    | 273,966   |
| Payable for dividends        |             | 145,338   |    | 148,152   |
| Payable for rentals          |             | 126,053   |    | 94,701    |
| Payable for interests        |             | 125,088   |    | 4,874     |
| Taxes payable                |             | 96,078    |    | 95,974    |
| Freight payables             |             | 92,554    |    | 61,224    |
| Payables for electricity     |             | 80,149    |    | 88,786    |
| Others                       |             | 226,730   |    | 161,654   |
|                              | <u>\$</u>   | 1,863,564 | \$ | 1,443,197 |

#### 18. RETIREMENT BENEFIT PLANS

#### a. Defined contribution plans

The Corporation adopted a pension plan under the Labor Pension Act (the "LPA"), which is a state-managed defined contribution plan. Under the LPA, an entity makes monthly contributions to employees' individual pension accounts at 6% of monthly salaries and wages.

#### b. Defined benefit plan

The defined benefit plan adopted by the Corporation, which is in accordance with the Labor Standards Law, is operated by the government. Pension benefits are calculated on the basis of the length of service and average monthly salaries of the 6 months before retirement. The Corporation contributes amounts equal to a specified percentage of total monthly salaries and wages to a pension fund administered by the pension fund monitoring committee. Pension contributions are deposited in the Bank of Taiwan in the committee's name. The pension fund is managed by the Bureau of Labor Funds, Ministry of Labor ("the Bureau"); the Corporation has no right to influence the investment policy and strategy.

The amounts included in the balance sheets in respect of the Corporation's defined benefit plan were as follows:

|  | December 31               |                   |  |
|--|---------------------------|-------------------|--|
|  | 2018                      | 2017              |  |
| Present value of defined benefit obligation<br>Fair value of plan assets | \$ (683,569)<br>1,674,672 | \$ (699,029)<br>  |  |
| Net defined benefit assets   | <u>\$ 991,103</u>         | <u>\$ 889,179</u> |  |

Movements in net defined benefit assets were as follows:

|  | Present Value<br>of Defined<br>Benefit<br>Obligation | Fair Value of<br>the Plan Assets | Net Defined<br>Benefit Asset |
|--|--|----------------------------------|------------------------------|
| Balance at January 1, 2017               | <u>\$ (819,907)</u>                                  | \$ 1,637,735                     | <u>\$ 817,828</u>            |
| Service costs                            |  |                                  |                              |
| Current service costs                    | (9,396)  | -                                | (9,396)                      |
| Net interest income (expense)            | (10,249)   | 20,472                           | 10,223                       |
| Recognized in profit or loss             | (19,645)   | 20,472                           | 827                          |
| Remeasurement                            |  |                                  |                              |
| Return on plan assets (excluding amounts |  |                                  |                              |
| included in net interest)                | -  | 58,127                           | 58,127                       |
| Actuarial loss - changes in demographic  |  |                                  |                              |
| assumptions                              | (160)  | -                                | (160)                        |
| Actuarial loss - changes in financial    |  |                                  |                              |
| assumptions                              | (7,497)  | -                                | (7,497)                      |
| Actuarial gain - experience adjustments  | 20,054   | <u>-</u>                         | 20,054                       |
| Recognized in other comprehensive income | 12,397   | 58,127                           | 70,524                       |
| Benefits paid                            | 128,126  | (128,126)                        |                              |
| Balance at December 31, 2017             | (699,029)  | 1,588,208                        | 889,179                      |
| Service costs                            |  |                                  |                              |
| Current service costs                    | (6,926)  | -                                | (6,926)                      |
| Net interest income (expense)            | (7,852)  | 17,883                           | 10,031                       |
| Recognized in profit or loss             | (14,778)   | 17,883                           | 3,105                        |
| Remeasurement                            |  |                                  |                              |
| Return on plan assets (excluding amounts |  |                                  |                              |
| included in net interest)                | -  | 116,198                          | 116,198                      |
| Actuarial loss - changes in demographic  |  |                                  |                              |
| assumptions                              | (111)  | -                                | (111)                        |
| Actuarial loss - changes in financial    |  |                                  |                              |
| assumptions                              | (7,050)  | -                                | (7,050)                      |
| Actuarial gain - experience adjustments  | (10,218)   | <u>-</u>                         | (10,218)                     |
| Recognized in other comprehensive income | <u>(17,379</u> )                                     | 116,198                          | 98,819                       |
| Benefits paid                            | 47,617   | <u>(47,617)</u>                  |                              |
| Balance at December 31, 2018             | <u>\$ (683,569)</u>                                  | <u>\$ 1,674,672</u>              | <u>\$ 991,103</u>            |

Through the defined benefit plan under the Labor Standards Law, the Corporation is exposed to the following risks:

- 1) Investment risk: The plan assets are invested in domestic and foreign equity and debt securities, bank deposits, etc. The investment is conducted at the discretion of the Bureau or under the mandated management. However, in accordance with relevant regulations, the return generated by plan assets should not be below the interest rate for a 2-year time deposit with local banks.
- 2) Interest risk: A decrease in the government bond interest rate will increase the present value of the defined benefit obligation; however, this will be partially offset by an increase in the return on the plan's debt investments.
- 3) Salary risk: The present value of the defined benefit obligation is calculated by reference to the future salaries of plan participants. As such, an increase in the salaries of the plan participants will increase the present value of the defined benefit obligation.

The actuarial valuations of the present value of the defined benefit obligation were carried out by qualified actuaries. The significant assumptions used for the purposes of the actuarial valuations were as follows:

|                                   | December 31 |        |
|-----------------------------------|-------------|--------|
|                                   | 2018        | 2017   |
| Discount rates                    | 1.00%       | 1.125% |
| Expected rates of salary increase | 2.25%       | 2.25%  |

If possible reasonable change in each of the significant actuarial assumptions will occur and all other assumptions will remain constant, the present value of the defined benefit obligation would increase (decrease) as follows:

|                                   | December 31 |                     |
|-----------------------------------|-------------|---------------------|
|                                   | 2018        | 2017                |
| Discount rates                    |             |                     |
| 0.25% increase                    | \$ (13,989) | \$ (14,871)         |
| 0.25% decrease                    | \$ 14,440   | \$ 15,371           |
| Expected rates of salary increase |             |                     |
| 0.25% increase                    | \$ 14,014   | \$ 14,916           |
| 0.25% decrease                    | \$ (13,684) | <u>\$ (14,506</u> ) |

The sensitivity analysis presented above may not be representative of the actual changes in the present value of the defined benefit obligation as it is unlikely that the changes in assumptions would occur in isolation of one another as some of the assumptions may be correlated.

|  | December 31     |                 |
|--|-----------------|-----------------|
|  | 2018            | 2017            |
| The expected contributions to the plan for the next year | <u>\$ 4,672</u> | <u>\$ 4,850</u> |
| The average duration of the defined benefit obligation   | 8.8 years       | 9.2 years       |

# 19. EQUITY

# a. Ordinary shares

|   | December 31          |                      |  |
|---|----------------------|----------------------|--|
|   | 2018                 | 2017                 |  |
| Number of shares authorized (in thousands)            | 7,000,000            | 6,000,000            |  |
| Shares authorized                                     | <u>\$ 70,000,000</u> | <u>\$ 60,000,000</u> |  |
| Number of shares issued and fully paid (in thousands) | 5,108,060            | 4,246,509            |  |
| Shares issued   | \$ 51,080,599        | \$ 42,465,090        |  |

A holder of issued ordinary shares with par value of NT\$10 is entitled to the proportional rights to vote and to dividends. The authorized shares including ordinary shares and preference shares contain 60,000 thousand units retained for the exercise of employee share options.

According to the laws of Hong Kong and the Cayman Islands, the Corporation and its subsidiary, TCCI, contemplated privatizing TCCIH by a Scheme of Arrangement under the Companies Law of the Cayman Islands. On October 18, 2017 the Corporation's board of directors resolved to issue 554,333 thousand ordinary shares to acquire part of TCCIH's shares with a par value of \$10, which increased the share capital issued and fully paid to \$42,465,090 thousand. On November 6, 2017 the above transaction was approved by the FSC.

The Corporation's shareholders resolved to distribute share dividends of \$4,240,509 thousand in June 2018, which was approved by the FSC. The subscription base date was August 1, 2018 as determined by the board of directors.

The Corporation's board of directors resolved to issue ordinary shares in cash in the form of global depositary shares for the purpose of investing in overseas subsidiaries and to repay borrowings. The transaction was approved by the FSC under letter No. 10703258531 which was issued on July 25, 2018. The Corporation issued 87,500 units at US\$6.27 per share on the Luxembourg Stock Exchange, which amounted to a total of US\$548,625 thousand in total in August 2018. One global depositary share represents 5 ordinary shares, and the total global depositary shares represent 437,500 thousand ordinary shares. All outstanding global depositary shares were converted into ordinary shares as of December 31, 2018.

#### b. Preference shares

In June 2018, the Corporation's board of directors resolved to cash increase capital by issuing preference shares for the second time, which was approved by the FSC under letter dated July 25, 2018 (Ref. No. Jin-Guan-Zheng-Fa-Zi 1070325853), and the record date of capital increase was determined as of December 13, 2018, expected to issue 200,000 thousand shares having a face value of \$10 per share at the issue price of NT\$50 per share, with 3.5% coupon per annum. (based on a five-year term 0.9375% IRS interest rate + 2.5625% fixed interest rate). Five-year term IRS interest rate will be reset on the next business day of the expiry of the five-year period from the date of issue and every five years thereafter. The Corporation has full discretion on the dividend distribution of the second preference shares. If there is no surplus or insufficient surplus to pay the preference share dividends upon the close of current fiscal year, the Corporation's resolution to cancel the distribution of preference share dividends will not constitute an event of default or a termination event in a contract. Preference share dividends are non-accumulative, and dividends that are not distributed or distributed in excess are not accumulated in the future year with deferred annual repayment. There is no maturity of the Corporation's second preference shares, but the Corporation may recover whole or part of the second preference shares at the actual issue price from the day following the five-year period from the issue date. The preference shares may not be converted to ordinary shares, and the preference shareholders do not have the rights to require the Corporation to redeem the preference shares they hold.

#### c. Capital surplus

|   | December 31   |               |
|---|---------------|---------------|
|   | 2018          | 2017          |
| May be used to offset a deficit, distributed as cash dividends, or transferred to share capital (1) |               |               |
| Issuance of shares  | \$ 44,176,367 | \$ 23,863,105 |
| Conversion of bonds   | 1,520,632     | 1,520,632     |
| Difference between consideration received/paid and the carrying                                     |               |               |
| amount of subsidiaries' net assets during actual acquisitions                                       | 466,755       | -             |
| Treasury share transactions   | 203,725       | 194,598       |
| Donations   | 31,537        | 31,537        |
|   |               | (Continued)   |

|   | December 31      |    |                           |
|---|------------------|----|---------------------------|
|   | 2018             |    | 2017                      |
| May only be used to offset a deficit (2)  |                  |    |                           |
| Changes in percentage of ownership interests in subsidiaries  | \$<br>116,238    | \$ | 116,238                   |
| Forfeited share options   | 10,695           |    | 10,315                    |
| Dividends distributed by subsidiaries not yet received by   |                  |    |                           |
| shareholders  | 2,161            |    | 2,120                     |
| May not be used for any purpose   |                  |    |                           |
| Equity component of convertible bonds payable<br>Changes in interests in associates accounted for by using equity | 1,308,070        |    | -                         |
| method  | <br>61           |    | 520                       |
|   | \$<br>47,836,241 |    | 25,739,065<br>(Concluded) |

- 1) Such capital surplus may be used to offset a deficit; in addition, when the Corporation has no deficit, such capital surplus may be distributed as cash dividends or transferred to share capital (limited to a certain percentage of the Corporation's capital surplus and once a year).
- 2) Such capital surplus arises from the effect of changes in ownership interest in a subsidiary resulting from equity transactions, other than actual disposals or acquisitions, or from changes in capital surplus of subsidiaries accounted for by using the equity method.

### d. Retained earnings and dividend policy

Under the dividend policy as set forth in the amended Articles, where the Corporation made profit in a fiscal year, the profit shall be first utilized for paying taxes, offsetting losses of previous years, setting aside as a legal reserve 10% of the remaining profit, setting aside or reversing a special reserve in accordance with the laws and regulations, and then any remaining profit together with any undistributed retained earnings shall be used by the Corporation's board of directors as the basis for proposing a distribution plan, which should be resolved in the shareholders' general meeting for the distribution of dividends and bonuses to shareholders. For the policies on the distribution of employees' compensation and remuneration of directors after amendment, refer to "Employee benefits expense" in Note 20.

In addition to the capital-intensive, mature and stable production and marketing of cement and cement-related products, the Corporation aggressively pursues diversification. For the development of diversified investments or other important capital budgeting plans, the Corporation decided that the payout ratio of cash dividend is to be at least 20% of the total dividends to be distributed to ordinary shareholders; the rest will be paid in share dividends.

Items referred to under Rule No. 1010012865, Rule No. 1010047490 and Rule No. 1030006415 issued by the FSC and the directive titled "Questions and Answers for Special Reserves Appropriated Following Adoption of IFRSs" should be appropriated to or reversed from a special reserve by the Corporation.

An appropriation of earnings to the legal reserve shall be made until the legal reserve equals the Corporation's share capital. The legal reserve may be used to offset deficits. If the Corporation has no deficit and the legal reserve has exceeded 25% of the Corporation's share capital, the excess may be transferred to capital or distributed in cash.

The appropriations of earnings for 2017 and 2016 approved in the shareholders' general meetings in 2018 and June 2017, respectively, were as follows:

|                 | Appropriatio | n of Earnings |                | Per Share T\$) |
|-----------------|--------------|---------------|----------------|----------------|
|                 | For the Y    | ear Ended     | For the Y      | ear Ended      |
|                 | Decem        | iber 31       | Decen          | ıber 31        |
|                 | 2017         | 2016          | 2017           | 2016           |
| Legal reserve   | \$ 759,425   | \$ 635,845    |                |                |
| Cash dividends  | 6,360,764    | 5,353,655     | <u>\$ 1.50</u> | <u>\$ 1.45</u> |
| Share dividends | 4,240,509    | -             | <u>\$ 1.00</u> | <u>\$ - </u>   |

The appropriation of earnings for 2018 had been proposed by the Corporation's board of directors on March 22, 2019. The appropriation and dividends per share were as follows:

|                                 | Appropriation of Earnings | Dividends Per<br>Share (NT\$) |  |
|---------------------------------|---------------------------|-------------------------------|--|
| Legal reserve                   | \$ 2,118,082              |                               |  |
| Dividends on preferences shares | 18,219                    | \$ 0.09                       |  |
| Cash dividends                  | 16,856,367                | \$ 3.30                       |  |
| Share dividends                 | 3,575,593                 | \$ 0.70                       |  |

The appropriation of earnings for 2018 is subject to be approved by shareholder's general meeting in June 2019.

## e. Special reserve

The Corporation appropriated to special reserve the amounts that were the same as the unrealized revaluation increment and cumulative translation adjustments transferred to retained earnings at the first-time adoption of IFRSs, which were \$10,454,422 thousand and \$2,709,369 thousand, respectively.

The special reserve appropriated at the first-time adoption of IFRSs relating to investment in properties other than land may be reversed according to the period of use. The special reserve relating to land may be reversed upon disposal or reclassification, and such special reserve of \$573 thousand and \$849 thousand was reversed for the years ended December 31, 2018 and 2017, respectively. The special reserve appropriated, due to currency translation adjustments for financial statements of foreign operations (including subsidiaries), shall be reversed based on the Corporation's disposal percentage, and all of the special reserve shall be reversed when the Corporation loses significant influence. There was no reversal for the years ended December 31, 2018 and 2017.

#### f. Other equity items

#### 1) Exchange differences on translating the financial statements of foreign operations

|   | For the Year Ended December 31 |                |
|---|--------------------------------|----------------|
|   | 2018                           | 2017           |
| Balance at January 1  | \$ (790,475)                   | \$ (2,233,617) |
| Share of exchange differences of subsidiaries and associates accounted for by using the equity method | (4,246,746)                    | 1,443,142      |
| Balance at December 31  | \$ (5,037,221)                 | \$ (790,475)   |

| 2) | Unrealized | gain (loss | on available-for-sale | financial assets |
|----|------------|------------|-----------------------|------------------|
|----|------------|------------|-----------------------|------------------|

| Balance at January 1, 2017  | \$ 11,200,323 |
|---|---------------|
| Unrealized gain arising on revaluation of available-for-sale financial assets     | 1,370,286     |
| Share of unrealized loss on revaluation of available-for-sale financial assets of |               |
| associates and joint ventures accounted for by using the equity method            | 7,344,405     |
| Balance at December 31, 2017 (IAS 39)   | 19,915,014    |
| Adjustment on initial application of IFRS 9                                       | (19,915,014)  |
| Balance at December 31, 2018  | <u>\$</u>     |

For the Year

# 3) Unrealized gain (loss) on financial assets at FVTOCI

|  | Ended<br>December 31,<br>2018 |
|--|-------------------------------|
| Balance at January 1 per IAS 39  | \$ -                          |
| Adjustment on initial application of IFRS 9                              | 24,158,871                    |
| Balance at January 1 per IFRS 9  | 24,158,871                    |
| Recognized during the period   |                               |
| Unrealized gain - equity instruments                                     | 98,784                        |
| Share of associates accounted for by using the equity method             | 1,137,943                     |
| Cumulative unrealized loss of equity instruments transferred to retained |                               |
| earnings due to disposal   | (1,321,032)                   |
| Other comprehensive income recognized in the period                      | (84,305)                      |
| Balance at December 31   | <u>\$ 24,074,566</u>          |

# 4) Cash flow hedges

|   | For the Year Ended December 31 |                |  |
|---|--------------------------------|----------------|--|
|   | 2018                           | 2017           |  |
| Balance at January 1 Share of cash flow hedges of subsidiaries accounted for by | \$ -                           | \$ 7,900       |  |
| using the equity method   | 1,109                          | <u>(7,900)</u> |  |
| Balance at December 31  | <u>\$ 1,109</u>                | <u>\$</u>      |  |

# 5) Treasury shares

|  | Total<br>(In Thousands<br>of Shares) |
|--|--------------------------------------|
| Number of shares at January 1, 2018<br>Increase for the period<br>Transferred to employees | 6,000<br>(5,930)                     |
| Number of shares at December 31, 2018  | 70                                   |

In February 2018, the Corporation's board of directors resolved to buy back 6,000 thousand treasury shares, and its execution had been done in the same month. The average buy-back price per shares was \$36.36, which will be transferred to employees, the record date of employees subscription was September 10, 2018, for the year ended December 31 of 2018. The Corporation transferred 5,930 shares to the employees at \$30.3 per share. The Corporation recognized compensation costs of \$45,448 thousand on the issuance date in 2018, recognized capital surplus-treasury share transaction of \$9,127 and reclassified share option to capital surplus- expired share option of \$380 thousand. Under the Securities Exchange Act, the Corporation shall neither pledge treasury shares nor exercise shareholder's rights on these shares, such as rights to dividends and to vote.

#### 20. NET INCOME

## a. Depreciation and amortization

|  | For the Year Ended December 31            |   |  |
|--|---|---|--|
|  | 2018                                      | 2017                                      |  |
| Property, plant and equipment<br>Investment properties<br>Intangible assets                                | \$ 518,341<br>231<br>10,683<br>\$ 529,255 | \$ 536,814<br>251<br>36,553<br>\$ 573,618 |  |
| An analysis of depreciation by function<br>Operating costs<br>Operating expenses<br>Non-operating expenses | \$ 458,735<br>59,239<br>598               | \$ 480,792<br>55,626<br>647               |  |
| An analysis of amortization by function<br>Operating costs   | <u>\$ 518,572</u><br><u>\$ 10,683</u>     | \$ 537,065<br>\$ 36,553                   |  |

# b. Employee benefits expense

|                                 | For the Year Ended December 31, 2018 |  |                    |
|---------------------------------|--------------------------------------|--|--------------------|
|                                 | Classified as Operating Costs        | Classified as<br>Operating<br>Expenses | Total              |
| Retirement benefit plans        |                                      | _                                      |                    |
| Defined contribution plan       | \$ 15,462                            | \$ 9,069                               | \$ 24,531          |
| Defined benefit plan            | (2,214)                              | (891)                                  | (3,105)            |
|                                 | 13,248                               | 8,178                                  | 21,426             |
| Share-based payment             |                                      |  |                    |
| Equity-settled                  | <del>_</del>                         | 45,448                                 | 45,448             |
| Other employee benefits         |                                      |  |                    |
| Salary                          | 429,656                              | 239,797                                | 669,453            |
| Labor and health insurance      | 38,752                               | 21,064                                 | 59,816             |
| Remuneration of directors       | -                                    | 240,250                                | 240,250            |
| Others                          | 17,201                               | 7,291                                  | 24,492             |
|                                 | 485,609                              | 508,402                                | 994,011            |
| Total employee benefits expense | \$ 498,857                           | <u>\$ 562,028</u>                      | <u>\$1,060,885</u> |

|                                 | For the Year Ended December 31, 2017 |                       |                   |
|---------------------------------|--------------------------------------|-----------------------|-------------------|
|                                 | Classified as                        | Classified as         | _                 |
|                                 | Operating<br>Costs                   | Operating<br>Expenses | Total             |
| Retirement benefit plans        |                                      |                       |                   |
| Defined contribution plan       | \$ 13,736                            | \$ 7,317              | \$ 21,053         |
| Defined benefit plan            | (605)                                | (222)                 | (827)             |
| -                               | 13,131                               | 7,095                 | 20,226            |
| Share-based payment             |                                      |                       |                   |
| Equity-settled                  | <del>_</del>                         |                       | <u>-</u>          |
| Other employee benefits         |                                      |                       |                   |
| Salary                          | 375,037                              | 220,320               | 595,357           |
| Labor and health insurance      | 36,697                               | 17,408                | 54,105            |
| Remuneration of directors       | -                                    | 84,533                | 84,533            |
| Others                          | <u>14,504</u>                        | 5,549                 | 20,053            |
|                                 | 426,238                              | 327,810               | <u>754,048</u>    |
| Total employee benefits expense | <u>\$ 439,369</u>                    | <u>\$ 334,905</u>     | <u>\$ 774,274</u> |

As of December 31, 2018 and 2017, the Corporation had 922 and 837 employees, and among the directors that do not adjunct as employees were 16 and 17 people in average, respectively, and the calculation of which is consistent with the employee benefits expense.

## c. Employees' compensation and remuneration of directors

The Corporation accrued employees' compensation and remuneration of directors at the rates of 0.01%-3% and no higher than 1%, respectively, of net profit before income tax, employees' compensation, and remuneration of directors. The total amount of employees' compensation and remuneration of directors for the years ended December 31, 2018 and 2017, which was approved by the Corporation's board of directors in March 2019 and May 2018 as follows:

|  | For the Year Ended December 31 |                     |
|--|--------------------------------|---------------------|
|  | 2018                           | 2017                |
| Employees' compensation<br>Remuneration of directors | \$ 68,236<br>215,088           | \$ 23,899<br>66,305 |

For the year ended December 31, 2018, if there is a change in the amounts after the annual financial statements are authorized for issue, the differences are recorded as a change in the accounting estimate.

There was no difference between the actual amounts of employees' compensation and remuneration of directors paid and the amounts recognized in the financial statements for the years ended December 31, 2017 and 2016.

Information on the employees' compensation and remuneration of directors resolved by the Corporation's board of directors will be available at the Market Observation Post System website of the Taiwan Stock Exchange.

# d. Other income

|   | For the Year Ended December 31                 |                              |
|---|--|------------------------------|
|   | 2018   | 2017                         |
| Interest income Foreign exchange gains, net Financial income Others | \$ 98,520<br>94,912<br>77,952<br><u>74,894</u> | \$ 6,102<br>81,653<br>75,624 |
|   | <u>\$ 346,278</u>                              | <u>\$ 163,379</u>            |

# e. Finance costs

|  | For the Year Ended December 31 |                   |
|--|--------------------------------|-------------------|
|  | 2018                           | 2017              |
| Interest on bank borrowings<br>Other finance costs | \$ 435,694<br><u>45,338</u>    | \$ 201,194<br>    |
|  | <u>\$ 481,032</u>              | <u>\$ 211,840</u> |

# f. Other expenses

|  | For the Year Ended December 31 |                           |
|--|--------------------------------|---------------------------|
|  | 2018                           | 2017                      |
| Loss of disposal of property, plant and equipment<br>Loss on work stoppage<br>Others | \$ 140,615<br>133,251<br>      | \$ -<br>129,862<br>31,599 |
|  | <u>\$ 275,608</u>              | <u>\$ 161,461</u>         |

# 21. INCOME TAX

# a. Major components of tax expense recognized in profit or loss

|   | For the Year Ended December 31 |                   |
|---|--------------------------------|-------------------|
|   | 2018                           | 2017              |
| Current tax                                     |                                |                   |
| In respect of the current year                  | \$ 68,309                      | \$ 151,407        |
| Income tax on unappropriated earnings           | -                              | 68,556            |
| Adjustments for prior years                     | (1,774)                        | (1,356)           |
|   | 66,535                         | 218,607           |
| Deferred tax                                    |                                |                   |
| In respect of the current year                  | (10,048)                       | (7,194)           |
| Effect of change of tax rate                    | 22,567                         | -                 |
| Others  | <u>-</u> _                     | (2,362)           |
|   | 12,519                         | (9,556)           |
| Income tax expense recognized in profit or loss | <u>\$ 79,054</u>               | <u>\$ 209,051</u> |

A reconciliation of income before income tax and income tax expense recognized in profit or loss was as follows:

|  | For the Year Ended December 31 |                   |
|--|--------------------------------|-------------------|
|  | 2018                           | 2017              |
| Income before tax (20% and 17%, respectively in 2018 and |                                |                   |
| 2017)  | <u>\$ 21,259,875</u>           | \$ 7,803,298      |
| Income tax expense at the statutory rate                 | \$ 4,251,975                   | \$ 1,326,561      |
| Tax-exempt income  | (804,285)                      | (617,889)         |
| Unrecognized deductible temporary differences            | (3,444,238)                    | (564,826)         |
| Effect of change of tax rate                             | 22,567                         | -                 |
| Adjustments for prior years                              | (1,774)                        | (1,356)           |
| Income tax on unappropriated earnings                    | -                              | 68,556            |
| Differences on payable of basic tax                      | 53,640                         | -                 |
| Others   | (1,969)                        | (1,995)           |
| Income tax expense recognized in profit or loss          | <u>\$ 75,916</u>               | <u>\$ 209,051</u> |

The applicable tax rate used above for the Corporation is 17%.

In February 2018, it was announced by the President of the ROC that the Income Tax Act in the ROC was amended and, starting from 2018, the corporate income tax rate will be adjusted from 17% to 20%. In addition, the rate of the corporate surtax applicable to the 2018 unappropriated earnings will be reduced from 10% to 5%.

As the status of the 2018 appropriation of earnings is uncertain, the potential income tax consequences of the 2017 unappropriated earnings are not reliably determinable.

#### b. Income tax recognized in other comprehensive income

|  | For the Year Ended December 31 |           |
|--|--------------------------------|-----------|
|  | 2018                           | 2017      |
| Effect of change of tax rate   | \$ 9,865                       | \$ -      |
| Deferred tax in the current year Remeasurement on defined benefit plan | 19,764                         | 11,989    |
| Income tax expense recognized in other comprehensive profit or loss    | \$ 29,629                      | \$ 11,989 |

## c. Current tax assets and liabilities

|  | December 31       |                                  |
|--|-------------------|----------------------------------|
|  | 2018              | 2017                             |
| Current income tax assets Current income tax liabilities | \$ 15,151<br>\$ - | <u>\$ -</u><br><u>\$ 132,708</u> |

# d. Deferred income tax assets and liabilities

The movements of deferred income tax assets (included in other non-current assets) and deferred income tax liabilities were as follows:

# For the year ended December 31, 2018

|  | Opening<br>Balance      | Recognized in<br>Profit or Loss | Recognized in<br>Comprehen-<br>sive Income | Closing<br>Balance      |
|--|-------------------------|---------------------------------|--|-------------------------|
| <u>Deferred income tax assets</u>  |                         |                                 |  |                         |
| Inventories Property, plant and equipment Long-term employee benefits      | \$ 38,963<br>13,916     | \$ 8,155<br>9,040               | \$ -<br>-                                  | \$ 47,118<br>22,956     |
| plan<br>Deferred revenue   | 7,083<br>4,371          | 3,512<br>526                    | -<br>-                                     | 10,595<br>4,897         |
| Investment properties<br>Others  | 2,376<br>21,004         | 360<br>11,088                   | <u> </u>                                   | 2,736<br>32,092         |
|  | \$ 87,713               | \$ 32,681                       | <u>\$</u>                                  | <u>\$ 120,394</u>       |
| <u>Deferred income tax liabilities</u>                                     |                         |                                 |  |                         |
| Land value increment tax Defined benefit plan Unappropriated earnings from | \$ 4,893,010<br>132,904 | \$ -<br>14,210                  | \$ -<br>29,629                             | \$ 4,893,010<br>176,743 |
| foreign subsidiaries   | 138,591                 | 30,990                          |  | 169,581                 |
|  | \$ 5,164,505            | <u>\$ 45,200</u>                | \$ 29,629                                  | \$ 5,239,334            |
| For the year ended December 31,  | 2017                    |                                 |  |                         |
| Deferred income tax assets   | Opening<br>Balance      | Recognized in<br>Profit or Loss | Recognized in<br>Comprehen-<br>sive Income | Closing<br>Balance      |
| Deferred filcome tax assets  |                         |                                 |  |                         |
| Inventories Property, plant and equipment Long-term employee benefits      | \$ 35,645<br>14,640     | \$ 3,318<br>(724)               | \$ -<br>-                                  | \$ 38,963<br>13,916     |
| plan Deferred revenue Investment properties                                | 6,299<br>4,580<br>2,432 | 784<br>(209)<br>(56)            | -<br>-<br>-                                | 7,083<br>4,371<br>2,376 |
| Others   | 3,847                   | <u>17,157</u>                   | <del>_</del>                               | 21,004                  |
|  | <u>\$ 67,443</u>        | \$ 20,270                       | <u>\$</u>                                  | <u>\$ 87,713</u>        |
| <u>Deferred income tax liabilities</u>                                     |                         |                                 |  |                         |
| Land value increment tax   |                         |                                 |  |                         |
| Defined benefit plan   | \$ 4,893,010<br>120,775 | \$ -<br>140                     | \$ -<br>11,989                             | \$ 4,893,010<br>132,904 |
|  | · ·                     |                                 |  |                         |

e. Aggregate temporary differences associated with investments for which deferred income tax liabilities have not been recognized

As of December 31, 2018 and 2017, the taxable temporary differences in respect of investments in subsidiaries and associates for which no deferred income tax liabilities have been recognized were \$40,229,415 thousand and \$28,258,399 thousand, respectively.

#### f. Income tax assessments

The tax returns of the Corporation through 2016 have been assessed by the tax authorities.

#### 22. EARNINGS PER SHARE

**Unit: NT\$ Per Share** 

|                            | For the Year End | For the Year Ended December 31 |  |
|----------------------------|------------------|--------------------------------|--|
|                            | 2018             | 2017                           |  |
| Basic earnings per share   | <u>\$ 4.37</u>   | <u>\$ 1.82</u>                 |  |
| Diluted earnings per share | <u>\$ 4.37</u>   | <u>\$ 1.82</u>                 |  |

The weighted average number of shares outstanding used in the earnings per share computation was adjusted retrospectively for the issuance of bonus shares on August 1, 2018. The basic and diluted earnings per share adjusted retrospectively for the year ended December 31, 2017 were as follows:

**Unit: NT\$ Per Share** 

|   | Before<br>Retrospective<br>Adjustment | After<br>Retrospective<br>Adjustment |
|---|---------------------------------------|--------------------------------------|
| Basic earnings per share Diluted earnings per share | \$ 2.03<br>\$ 2.03                    | \$ 1.82<br>\$ 1.82                   |

The earnings and weighted average number of ordinary shares outstanding in the computation of earnings per share were as follows:

|  | For the Year Ended December 31 |              |
|--|--------------------------------|--------------|
|  | 2018                           | 2017         |
| Profit for the year attributable to owners of the Corporation                                    | <u>\$ 21,180,821</u>           | \$ 7,594,247 |
| Number of shares (in thousands)  |                                |              |
| Weighted average number of ordinary shares in computation of basic earnings per share            | 4,849,335                      | 4,162,421    |
| Effect of potentially dilutive ordinary shares:<br>Employees' compensation                       | 2,129                          | 900          |
| Weighted average number of ordinary shares used in the computation of diluted earnings per share | 4,851,464                      | 4,163,321    |

If the Corporation offered to settle compensation paid to employees in cash or shares, the Corporation assumed the entire amount of the compensation or bonus will be settled in shares, and the resulting potential shares were included in the weighted average number of shares outstanding used in the computation of diluted earnings per share, as the effect is dilutive. Such dilutive effect of the potential shares is included in the computation of diluted earnings per share until the number of shares to be distributed to employees is resolved in the following year.

# 23. PARTIAL ACQUISITION OR DISPOSAL OF SUBSIDIARIES WITHOUT CHANGE OF CONTROL

#### 2018

From January 1, 2018 to July 31, 2018, the Corporation disposed of a portion of the shares of Taiwan Prosperity Chemical Corporation, and decreased its proportionate ownership interests from 50% to 40%. The above transactions were accounted for as equity transactions, since there was no change in the Corporation's control over these subsidiaries.

For the propose of streamlining its investment structure, the TCC Chemical Corporation's board of directors approved the merger with Kuan-Ho Construction & Development Corporation and TCC Chemical Corporation with TCC Chemical Corporation as the surviving company on January 1, 2018. Since the merger is considered as a group reorganization, it is accounted for at the carrying amounts.

Refer to Notes of the consolidated financial statements for related disclosures in 2018.

#### 2017

According to the laws of Hong Kong and the Cayman Islands, the Corporation and its subsidiary, TCCI, contemplated privatizing TCCIH by a Scheme of Arrangement under the Companies Law of the Cayman Islands. On October 18, 2017, the Corporation's board of directors resolved to issue 554,333 thousand ordinary shares to acquire part of TCCIH's 1,319,841 thousand shares with a par value of NT\$10, for a consideration of NT\$18,970,661 thousand, excluding issuance costs, which increased the share capital issued and fully paid to \$42,465,090 thousand. On November 6, 2017 the above transaction was approved by the FSC. TCCI acquired the residual portion of the shares of TCCIH in cash, increasing its proportionate interest from 63.1% to 75.9%.

The above transactions were accounted for as equity transactions, since there was no change in the Corporation's control over these subsidiaries. Refer to Notes of the consolidated financial statements for related disclosures in 2017.

#### 24. CAPITAL MANAGEMENT

The Corporation needs to maintain sufficient capital to fulfill the Corporation's requirements of business expansion and construction. Therefore, the capital management of the Corporation shall focus on a comprehensive operational plan to ensure sound profitability and financial structure so as to fulfill the midand long-term demand of working capital, capital expenditures, debts repayment and dividend distributions.

# 25. FINANCIAL INSTRUMENTS

a. Fair value of financial instruments not measured at fair value

# December 31, 2018

|   | Carrying             | Fair Value |           |                      |                      |
|---|----------------------|------------|-----------|----------------------|----------------------|
|   | Amount               | Level 1    | Level 2   | Level 3              | Total                |
| Financial liabilities   |                      |            |           |                      |                      |
| Financial liabilities at amortized cost Convertible bonds payable | <u>\$ 10,800,849</u> | <u>\$</u>  | <u>\$</u> | <u>\$ 10,904,874</u> | <u>\$ 10,904,874</u> |

- b. Fair value of financial instruments measured at fair value on a recurring basis
  - 1) Fair value hierarchy

# December 31, 2018

|  | Level 1                                | Level 2                | Level 3                                     | Total   |
|--|--|------------------------|---|---|
| Financial assets at FVTPL Domestic listed shares Domestic emerging market shares   | \$ 163,810<br>85,780<br>\$ 249,590     | \$ -<br>               | \$ -<br>-<br>\$ -                           | \$ 163,810<br>85,780<br>\$ 249,590                  |
| Financial assets at FVTOCI Equity instrument investment Domestic listed shares Domestic unlisted shares Domestic preference shares | \$ 3,323,490<br>-<br>-<br>\$ 3,323,490 | \$ -<br>-<br>-<br>\$ - | \$ -<br>4,385,175<br>29,559<br>\$ 4,414,734 | \$ 3,323,490<br>4,385,175<br>29,559<br>\$ 7,738,224 |
| Financial liabilities at FVTPL Derivatives  December 31, 2017  | <u>\$</u>                              | <u>\$</u> _            | <u>\$ 139,460</u>                           | <u>\$ 139,460</u>                                   |
|  | Level 1                                | Level 2                | Level 3                                     | Total   |
| Available-for-sale financial assets Domestic listed shares Domestic emerging market shares   | \$ 6,071,300<br>89,037                 | \$ -<br>-              | \$ -<br>-                                   | \$ 6,071,300<br>89,037                              |
|  | \$ 6,160,337                           | <u>\$</u>              | <u>\$</u>                                   | \$ 6,160,337  |

There were no transfers between Levels 1 and 2 in the current and prior periods.

#### 2) Reconciliation of Level 3 fair value measurements of financial instruments

|  | For the Year<br>Ended<br>December 31,<br>2018 |
|--|---|
| Financial assets at FVTOCI               |   |
| Equity instrument investment             |   |
| Balance at January 1, 2018               | \$ 3,982,858                                  |
| Additional                               | 72,086  |
| Recognized in other comprehensive income | 367,973                                       |
| Disposal                                 | (1,333)                                       |
|  | (6,850)                                       |
| Reclassification                         | <u>\$ 4,414,734</u>                           |
| Financial assets at FVTPL                |   |
| Derivative instrument investment         |   |
| Balance at January 1, 2018               | \$ -  |
| Additional                               | 159,222                                       |
| Recognized in loss                       | (19,762)                                      |
| Balance at December 31, 2018             | <u>\$ 139,460</u>                             |

# 3) Valuation techniques and inputs applied for Level 3 fair value measurement

There were no quoted prices in active markets for put options and redemption options of ECB issued by the Corporation. Hence, the fair values of options are determined using the binomial option pricing model where the unobservable input is historical volatility. An increase in historical volatility used in isolation would result in an increase in the fair value. As of December 31, 2018, the historical volatility used was 29.22%.

The Corporation measures the fair value of its investments on domestic unlisted shares by using the asset-based approach, the market approach, and the dividend discount model.

Under the asset-based approach, the total value of an investment is based on the fair value of its assets and liabilities. The significant unobservable inputs used are listed in the table below.

December 31, 2018

10%

Comprehensive discount for lack of marketability and non-controlling interests

If the inputs to the valuation model were changed to reflect reasonably possible alternative assumptions while all the other variables were held constant, the fair value of the shares would increase (decrease) as follows:

|  | December 31,<br>2018 |
|--|----------------------|
| Comprehensive discount for lack of marketability and non-controlling interests |                      |
| 1% increase  | <u>\$ (10,827)</u>   |
| 1% decrease  | <u>\$ 10.827</u>     |

The market approach involves comparing a target company with companies that have similar business models in the open market, similar selling prices of similar items, or similar past share prices to that of the target company. The significant unobservable inputs used are listed in the table below.

December 31, 2018

Discount for lack of marketability

30%

If the inputs to the valuation model were changed to reflect reasonably possible alternative assumptions while all the other variables were held constant, the fair value of the shares would increase (decrease) as follows:

|                                    | December 31,<br>2018 |
|------------------------------------|----------------------|
| Discount for lack of marketability |                      |
| 1% increase                        | <u>\$ (188)</u>      |
| 1% decrease                        | <u>\$ 188</u>        |

The dividend discount model values a target company based on its stability of dividend payments in the past.

|                                    | December 31,<br>2018 |
|------------------------------------|----------------------|
| Discount rate                      | 7.9%                 |
| Dividend growth rate               | 1.7%                 |
| Discount for lack of marketability | 10.0%                |

If the inputs to the valuation model were changed to reflect reasonably possible alternative assumptions while all the other variables were held constant, the fair value of the shares would increase (decrease) as follows:

|                                    | December 31,<br>2018 |
|------------------------------------|----------------------|
| Discount for lack of marketability |                      |
| 1% increase                        | <u>\$ (37,599)</u>   |
| 1% decrease                        | <u>\$ 37,599</u>     |

# c. Categories of financial instruments

|   | December 31 |            |  |
|---|-------------|------------|--|
|   | 2018        | 2017       |  |
| Financial assets                            |             |            |  |
| Mandatorily classified as at FVTPL          | \$ 249,590  | \$ -       |  |
| Loans and receivables (1)                   | · -         | 4,423,406  |  |
| Available-for-sale financial assets (2)     | -           | 6,245,496  |  |
| Financial asset at amortized cost (3)       | 16,069,455  | _          |  |
| Financial assets at FVTOCI                  | 7,738,224   | -          |  |
| Equity instruments                          |             |            |  |
| Financial liabilities                       |             |            |  |
| Financial liabilities at FVTPL              |             |            |  |
| Held for trading                            | 139,460     | _          |  |
| Financial liabilities at amortized cost (4) | 76,028,035  | 20,712,606 |  |

- 1) The balances include loans and receivables measured at amortized cost, which comprise cash and cash equivalents, notes and accounts receivable and other receivables (account for current assets).
- 2) The balances include the carrying amount of available-for-sale financial assets carried at cost.
- 3) The balances include financial assets measured at amortized cost, which comprise cash and cash equivalents, notes and accounts receivable and other receivables (account for current assets).
- 4) The balances include financial liabilities at amortized cost, which comprise short-term loans, short-term bills payable, accounts payable, other payables, other payables from related party (account for other current liabilities), bonds payable and long-term loans (including current portion), and long-term bills payable.

# d. Financial risk management objectives and policies

The risk control and hedging strategy performed by the Corporation were affected by operation environments, and the Corporation adopted appropriate risk controls and hedging strategies according to its nature of business and risk diversification principles. These risks include market risk, credit risk and liquidity risk.

# 1) Market risk

The Corporation's financial instruments were mainly comprised of listed shares, and these investments were subject to fluctuations in market prices. The Corporation has periodically evaluated the investment's performance, and no significant market risk was anticipated.

## a) Foreign currency risk

The foreign financial assets and liabilities were exposed to risk of foreign currency fluctuations. To lower foreign currency risk, the Corporation has established control mechanisms to immediately monitor its foreign currency position and exchange rate fluctuations.

The carrying amounts of the significant monetary assets and liabilities not denominated in functional currency at the end of the reporting period are set out in Note 29.

The Corporation was mainly exposed to the USD. Regarding outstanding foreign monetary items, if there is a 1% increase or decrease in the NTD against the USD net income and equity for the years ended December 31, 2018 and 2017 would increase/decrease by \$17,818 thousand and \$580 thousand, respectively.

#### b) Interest rate risk

The carrying amount of the Corporation's financial assets and financial liabilities with exposure to interest rates at the end of the reporting period were as follows:

|                              |      | December 31 |         |     |
|------------------------------|------|-------------|---------|-----|
|                              |      | 2018        |         |     |
| Cash flow interest rate risk |      |             |         |     |
| Financial assets             | \$ 4 | 4,808,221   | \$ 595, | 152 |
| Financial liabilities        | 26   | 5,479,417   | 15,798, | 883 |

The interest risk was evaluated based on the position of financial assets and liabilities. The sensitivity analysis below was determined based on the Corporation's floating interest rate financial assets and liabilities at the end of the reporting period, and a 50 basis point increase or decrease was used, representing management's assessment of reasonably possible change in interest rates. The fair values of fixed interest rate financial assets and liabilities will change due to variances in market interest rates; the future cash flows of floating interest rate financial assets and financial liabilities will change due to variances in effective interest rates, which vary with market interest rates.

For the Corporation's floating interest rate financial assets, if interest rates had been 50 basis points higher/lower, the cash inflows from floating interest rate financial assets for the years ended December 31, 2018 and 2017 would increase/decrease by \$19,233 thousand and \$2,470 thousand, respectively.

For the Corporation's floating interest rate financial liabilities, if interest rates had been 50 basis points higher/lower, the cash outflows from floating interest rate financial liabilities for the years ended December 31, 2018 and 2017 would increase/decrease by \$105,918 thousand and \$65,565 thousand, respectively.

#### c) Other price risk

The Corporation was exposed to equity price risk through its investments in equity instruments. Equity investments are held for strategic rather than trading purposes. The Corporation does not actively trade these investments. Sensitivity analyses were used for evaluating the exposure to equity price risks.

The sensitivity analyses were based on the exposure of equity instruments at the end of the reporting period. If equity prices had been 5% higher/lower, other comprehensive income for the years ended December 31, 2018 and 2017 would increase/decrease by \$386,911 thousand and \$308,017 thousand, respectively.

#### 2) Credit risk

Potential impacts on financial assets would occur if the counterparties breach financial instrument contracts, including impacts to the concentration of credit risk, components contractual amounts and other receivables.

As at the end of the reporting period, the Corporation's maximum exposure to credit risk, which would cause a financial loss to the Corporation due to the failure of counterparties to discharge an obligation, could arise from the carrying amounts of the respective recognized financial assets as stated in the balance sheets.

The Corporation transacted with a large number of customers from various industries and geographical locations. The Corporation continuously assesses the operations and financial positions of customers and monitors the collectability of accounts receivable. The Corporation required credit enhancements by bank guarantees or collateral for certain customers.

The credit risk on liquid funds and derivatives was limited because the counterparties are banks with high credit ratings which were assigned by international credit-rating agencies.

#### 3) Liquidity risk

The Corporation manages liquidity risk by monitoring and maintaining a level of cash and cash equivalents deemed adequate to finance the Corporation's operations and mitigate the effects of fluctuations in cash flows. In addition, management monitors the utilization of bank facilities and ensures compliance with loan covenants. As of December 31, 2018 and 2017, the amount of unused financing facilities was \$16,971,290 thousand and \$6,328,212 thousand, respectively.

The following table details the Corporation's remaining contractual maturity for its non-derivative financial liabilities with agreed repayment periods. The table has been drawn up based on the undiscounted cash flows of financial liabilities from the earliest date on which the Corporation can be required to pay. The table included both interest and principal cash outflows. Specifically, bank loans with a repayment on demand clause were included in the earliest time band regardless of the probability of the banks choosing to exercise their rights. The maturity dates for other non-derivative financial liabilities were based on the agreed upon repayment dates.

#### December 31, 2018

|   | On Demand or<br>Less than<br>1 Month                     | 1-3 Months                  | 3 Months to<br>1 Year                            | 1-5 Years   | 5+ Years                                |
|---|--|-----------------------------|--|---|---|
| Non-derivative financial liabilities  |  |                             |  |   |   |
| Non-interest bearing<br>Variable interest rate liabilities<br>Fixed interest rate liabilities | \$ 1,698,464<br>12,573,672<br>1,500,000<br>\$ 15,772,136 | \$ 1,654,819<br>461,417<br> | \$ 744,935<br>182,529<br>204,000<br>\$ 1,131,464 | \$ 7,207<br>14,257,104<br>22,316,000<br>\$ 36,580,311 | \$ 3,112<br>26,703,477<br>\$ 26,706,589 |
| <u>December 31, 2017</u>  |  |                             |  |   |   |
|   | On Demand<br>or Less than<br>1 Month                     | 1-3 Months                  | 3 Months to<br>1 Year                            | 1-5 Years   | 5+ Years                                |
| Non-derivative financial liabilities  |  |                             |  |   |   |
| Non-interest bearing<br>Variable interest rate liabilities<br>Fixed interest rate liabilities | \$ 841,767<br>4,289,085<br>                              | \$ 2,107,724<br>4,278,175   | \$ 150,665<br>7,308,736                          | \$ 11,399<br>-<br>-                                   | \$ -<br>-<br>-                          |
|   | <u>\$ 7,030,852</u>                                      | \$ 6,385,899                | <u>\$ 7,459,401</u>                              | <u>\$ 11,399</u>                                      | <u>\$</u>                               |

#### 26. TRANSACTIONS WITH RELATED PARTIES

Besides information disclosed elsewhere in other notes, details of transactions between the Corporation and other related parties are disclosed below.

# a. Name of the related parties and relationship

| Related Party  | Relationship with the Corporation                |  |  |  |  |
|--|--|--|--|--|--|
| Ta-Ho Maritime Corporation   | Subsidiaries                                     |  |  |  |  |
| Taiwan Transport & Storage Corporation   | Subsidiaries                                     |  |  |  |  |
| Taiwan Cement Engineering Corporation  | Subsidiaries                                     |  |  |  |  |
| Kuan-Ho Refractories Industry Corporation  | Subsidiaries                                     |  |  |  |  |
| Kuan-Ho Construction & Development Corporation (merged with TCC Chemical Corporation on January 1, 2018. Refer to                      | Subsidiaries                                     |  |  |  |  |
| Note 12)   | Cultaidiania                                     |  |  |  |  |
| TCC Investment Corporation   | Subsidiaries                                     |  |  |  |  |
| TCC Chemical Corporation   | Subsidiaries                                     |  |  |  |  |
| TCC Information Systems Corporation  | Subsidiaries                                     |  |  |  |  |
| Taiwan Prosperity Chemical Corporation   | Subsidiaries                                     |  |  |  |  |
| Tung Chen Mineral Corporation  | Subsidiaries                                     |  |  |  |  |
| Jin Chang Minerals Corporation   | Subsidiaries                                     |  |  |  |  |
| Hoping Industrial Port Corporation   | Subsidiaries                                     |  |  |  |  |
| Ho-Ping Power Company  | Subsidiaries                                     |  |  |  |  |
| Feng Sheng Enterprise Company  | Subsidiaries                                     |  |  |  |  |
| E.G.C. Cement Corporation  | Subsidiaries                                     |  |  |  |  |
| Union Cement Traders Inc.  | Subsidiaries                                     |  |  |  |  |
| Jurong TCC Cement Co., Ltd.  | Subsidiaries                                     |  |  |  |  |
| TCC Fuzhou Cement Co., Ltd.  | Subsidiaries                                     |  |  |  |  |
| Hong Kong Cement Company Ltd. ("HKCCL")  | Subsidiaries                                     |  |  |  |  |
| TCC International Ltd. ("TCCI")  | Subsidiaries                                     |  |  |  |  |
| TCC International Holdings Ltd. ("TCCIH")  | Subsidiaries                                     |  |  |  |  |
| Ta-Ho Onyx RSEA Environment Co., Ltd.  | Subsidiaries                                     |  |  |  |  |
| TCC Green Energy Corporation   | Subsidiaries                                     |  |  |  |  |
| Ho Sheng Mining Co., Ltd.  | Subsidiaries                                     |  |  |  |  |
| Synpac-Kingdom Pharmaceutical Co., Ltd. (International CSRC Investment Holdings Co., Ltd. 's subsidiary, disposed of in November 2017) | Same key management personnel                    |  |  |  |  |
| Sole Energy Tech Corp. (dissolved and closed on June 30, 2017)   | Same key management personnel                    |  |  |  |  |
| Dr. Cecilia Koo Botanic Conservation and Environmental Protection Foundation   | Same key management personnel                    |  |  |  |  |
| Chienten Temple  | Same key management personnel                    |  |  |  |  |
| He Feng Investment Co., Ltd.   | Same key management personnel                    |  |  |  |  |
| Chinatrust Investment Co., Ltd.  | Same key management personnel                    |  |  |  |  |
| Linyuan Advanced Materials Technology Co., Ltd.  | Same key management personnel                    |  |  |  |  |
| Pan Asia Corporation   | The Corporation acts as key management personnel |  |  |  |  |
| China Hi-Ment Corporation  | The Corporation acts as key management personnel |  |  |  |  |
| O-Bank Co., Ltd.   | The Corporation acts as key management personnel |  |  |  |  |
| Rong Gong Enterprise Co.   | The Corporation acts as key management personnel |  |  |  |  |
|  | (Continued)                                      |  |  |  |  |

#### **Related Party**

#### **Relationship** with the Corporation

Goldsun Development & Construction Co., Ltd.

Chia Hsin Cement Corporation
Chia Hsin R.M.C. Corp.
The Koo Foundation
L'Hotel de Chine Corporation
FDC International Hotels Corporation-Sun Moon Lake
International CSRC Investment Holdings Co., Ltd.

E-ONE Moli Energy Corporation

ONYX Ta-Ho Environmental Services Co., Ltd. Onyx Ta-Ho Waste Clearance Co., Ltd. Shih Hsin Storage & Transportation Co., Ltd.

Investors with significant influence over the Corporation

Management personnel in substance

Management personnel in substance Management personnel in substance Management personnel in substance Management personnel in substance Management personnel in substance Associates (same key management personnel in 2017)

Associates (same key management personnel in 2017)

**Operating Revenue** 

Associates Associates

(Concluded)

### b. Operating transactions

|   | For the Year Ended December 31 |                     |  |  |
|---|--------------------------------|---------------------|--|--|
|   | 2018                           | 2017                |  |  |
| Subsidiaries Management personnel in substance  | \$ 1,523,558<br>516,859        | 452,152             |  |  |
| The Corporation acts as key management personnel Investors with significant influence over the Corporation Associates | 137,473<br>81,973<br>26,016    | 112,952<br>81,598   |  |  |
| Same key management personnel   | 2,183                          | 18,503              |  |  |
|   | \$ 2,288,062                   | <u>\$ 2,359,661</u> |  |  |
|   | Operating Co                   | osts and Expenses   |  |  |
|   | For the Year E                 | Ended December 31   |  |  |
|   | 2018                           | 2017                |  |  |

|   | 2018            |    | 2017      |  |
|---|-----------------|----|-----------|--|
| Subsidiaries  | \$<br>3,607,992 | \$ | 3,347,277 |  |
| The Corporation acts as key management personnel          | 523,764         |    | 441,550   |  |
| Management personnel in substance                         | 48,580          |    | 21,624    |  |
| Associates  | 302             |    | 7,000     |  |
| Investors with significant influence over the Corporation | 31              |    | 213       |  |
| Same key management personnel                             | <br>            | _  | 57        |  |
|   | \$<br>4.180.669 | \$ | 3,817,721 |  |

## Receivables from related parties

|   | December 31 |         |    | 1       |
|---|-------------|---------|----|---------|
|   |             | 2018    |    | 2017    |
| Subsidiaries  |             |         |    |         |
| E.G.C. Cement Corporation                                 | \$          | 106,653 | \$ | 83,933  |
| Feng Sheng Enterprise Company                             |             | 96,635  |    | 79,755  |
| TCCIH   |             | 41,849  |    | 42,545  |
| HKCCL   |             | 21,744  |    | 39,872  |
| TCC Fuzhou Cement Co., Ltd.                               |             | -       |    | 35,489  |
| Others  |             | 11,820  |    | 22,317  |
|   |             | 278,701 |    | 303,911 |
| Management personnel in substance                         |             |         |    | _       |
| Chia Hsin Cement Corporation                              |             | 112,833 |    | 45,551  |
| Others  |             | 8,578   |    | 19,942  |
|   |             | 121,411 |    | 65,493  |
| Associates  |             | 718     |    | 911     |
| The Corporation acts as key management personnel          |             | 32,995  |    | 37,211  |
| Investors with significant influence over the Corporation |             | 40,887  |    | 17,771  |
| Same key management personnel                             |             | 150     |    | 29      |
|   | <u>\$</u>   | 474,862 | \$ | 425,326 |

# Payables to related parties

|  | December 31 |         |           | 1       |
|--|-------------|---------|-----------|---------|
|  |             | 2018    |           | 2017    |
| Subsidiaries                                     |             |         |           |         |
| Ta-Ho Maritime Corporation                       | \$          | 372,490 | \$        | 160,915 |
| Kuan-Ho Refractories Industry Corporation        |             | 111,417 |           | 137,116 |
| Jin Chang Minerals Corporation                   |             | 147,517 |           | 125,895 |
| Taiwan Transport & Storage Corporation           |             | 106,040 |           | 87,091  |
| Ho Sheng Mining Co., Ltd.                        |             | 32,292  |           | 41,473  |
| Feng Sheng Enterprise Company                    |             | 22,564  |           | 46,330  |
| Others   |             | 24,777  |           | 19,681  |
|  |             | 817,097 |           | 618,501 |
| The Corporation acts as key management personnel |             |         |           |         |
| China Hi-Ment Corporation                        |             | 164,614 |           | 127,997 |
| Management personnel in substance                |             | 5,833   |           | 2,413   |
| Others   |             | 114     |           | 66      |
|  | <u>\$</u>   | 987,658 | <u>\$</u> | 748,977 |

The price and terms of the above transactions were similar to those for third parties. Rentals of lease contracts with related parties were based on market prices and the payment terms were determined at general condition.

## c. Other receivables from related parties (account for other current assets)

|                                       | December 31 |        |    |        |
|---------------------------------------|-------------|--------|----|--------|
|                                       |             | 2018   |    | 2017   |
| Subsidiaries                          |             |        |    |        |
| TCCI                                  | \$          | 21,022 | \$ | 29,475 |
| Ta-Ho Onyx RSEA Environment Co., Ltd. |             | -      |    | 16,469 |
| Others                                |             | 18,013 |    | 16,914 |
|                                       |             | 39,035 |    | 62,858 |
| Others                                |             | 7,168  |    | 1,157  |
|                                       | \$          | 46,203 | \$ | 64,015 |

Other receivables from related parties included interest and fees receivable.

# d. Other payables to related parties (account for other current liabilities)

|                        | December 31 |              |           |                 |
|------------------------|-------------|--------------|-----------|-----------------|
|                        |             | 2018         |           | 2017            |
| Subsidiaries<br>Others | \$          | 487<br>2,819 | \$        | 22,178<br>2,537 |
|                        | <u>\$</u>   | 3,306        | <u>\$</u> | 24,715          |

# e. Acquisitions of property, plant and equipment

|    |   | Purchas             | <b>Purchase Price</b> |  |  |
|----|---|---------------------|-----------------------|--|--|
|    |   | For the Year End    | ded December 31       |  |  |
|    | Related Party Category/Name                                 | 2018                | 2017                  |  |  |
|    | Management personnel in substance<br>Chia Hsin R.M.C. Corp. | \$ 25,000           | <u>\$</u>             |  |  |
| f. | Endorsements and guarantees                                 |                     |                       |  |  |
|    |   | 2018                | 2017                  |  |  |
|    | Subsidiaries  |                     |                       |  |  |
|    | TCCI  | \$ 1,474,320        | \$ 16,308,480         |  |  |
|    | Others  | 2,959,814           | 3,047,814             |  |  |
|    |   | <u>\$ 4,434,134</u> | <u>\$ 19,356,294</u>  |  |  |

# g. Compensation of key management personnel

|   | For the Year Ended December 31 |                        |           |                            |
|---|--------------------------------|------------------------|-----------|----------------------------|
|   |                                | 2018                   |           | 2017                       |
| Short-term employee benefits Post-employment benefits Other long-term employee benefits | \$                             | 346,198<br>-<br>14,225 | \$        | 118,245<br>1,848<br>25,329 |
|   | <u>\$</u>                      | 360,423                | <u>\$</u> | 145,422                    |

#### 27. ASSETS PLEDGED AS COLLATERAL OR FOR SECURITY

The following assets were pledged or mortgaged as collateral for performance bonds and other credit accommodations:

|   | December 31          |                             |  |  |
|---|----------------------|-----------------------------|--|--|
|   | 2018                 | 2017                        |  |  |
| Property, plant and equipment<br>Pledged bank deposits (included in other non-current assets) | \$ 57,569<br>329,059 | \$ 57,569<br><u>126,659</u> |  |  |
|   | \$ 386,628           | <u>\$ 184,228</u>           |  |  |

#### 28. SIGNIFICANT CONTINGENT LIABILITIES AND UNRECOGNIZED COMMITMENTS

- a. As of December 31, 2018 and 2017, the balances of letters of credit for the purchase of raw materials were \$388,405 thousand and \$235,248 thousand, respectively.
- b. As of December 31, 2017, the Corporation issued bills of lading for finished goods in the amount of 286 tons as collateral for its credit facilities with financial institutions.
- c. As of December 31, 2018 and 2017, the amounts of letters of guarantee issued by banks for the Corporation were \$22,120 thousand and \$45,990 thousand, respectively.

#### 29. SIGNIFICANT ASSETS AND LIABILITIES DENOMINATED IN FOREIGN CURRENCIES

The following information was aggregated by the foreign currencies other than the Corporation's functional currency and the exchange rates between such foreign currencies and the Corporation's functional currency were disclosed. The significant assets and liabilities denominated in foreign currencies were as follows:

#### December 31, 2018

| Financial assets               | Foreign<br>Currencies<br>(In Thousands) | Exchange Rate   | Carrying<br>Amount  |
|--------------------------------|---|---|---|
| Monetary items<br>USD          | \$ 73,822                               | 30.715 (USD:NTD)                                      | \$ 2,267,443  |
| Non-monetary items USD HKD EUR | 53,148<br>29,064,612<br>837,258         | 30.715 (USD:NTD)<br>3.921 (HKD:NTD)<br>35.2 (EUR:NTD) | \$ 1,632,435<br>113,962,344<br>29,471,481<br>\$ 145,066,260 |
| Financial liabilities          |   |   |   |
| Monetary items USD EUR         | 1,310<br>86                             | 30.715 (USD:NTD)<br>35.2 (EUR:NTD)                    | \$ 40,248<br>3,022<br>\$ 43,270                             |

#### December 31, 2017

|                            | Cur | oreign<br>rencies<br>nousands) | Exchange Rate                       |           | arrying<br>Amount     |
|----------------------------|-----|--------------------------------|-------------------------------------|-----------|-----------------------|
| Financial assets           |     |                                |                                     |           |                       |
| Monetary items<br>USD      | \$  | 14,439                         | 29.760 (USD:NTD)                    | <u>\$</u> | 429,705               |
| Non-monetary items USD HKD | 20  | 23,547<br>9,866,905            | 29.760 (USD:NTD)<br>3.807 (HKD:NTD) | \$<br>    | 700,769<br>79,440,308 |
|                            |     |                                |                                     | \$ 8      | <u>80,141,077</u>     |
| Financial liabilities      |     |                                |                                     |           |                       |
| Monetary items<br>USD      |     | 12,090                         | 29.760 (USD:NTD)                    | <u>\$</u> | 359,791               |

#### 30. SEPARATELY DISCLOSED ITEMS

- a. Information about significant transactions and investees
  - 1) Financing provided to others (Table 1)
  - 2) Endorsements/guarantees provided (Table 2)
  - 3) Marketable securities held (excluding investment in subsidiaries, associates and joint ventures) (Table 3)
  - 4) Marketable securities acquired and disposed of at costs or prices of at least NT\$300 million or 20% of the share capital (Table 4)
  - 5) Acquisitions of individual real estate at costs of at least NT\$300 million or 20% of the share capital (Table 5)
  - 6) Disposals of individual real estate at prices of at least NT\$300 million or 20% of the share capital (None)
  - 7) Total purchases from or sales to related parties amounting to at least NT\$100 million or 20% of the share capital (Table 6)
  - 8) Receivables from related parties amounting to at least NT\$100 million or 20% of the share capital (Table 7)
  - 9) Trading in derivative instruments (Notes 7, 16 and 25)
  - 10) Information on investees (Table 8)

- b. Information on investments in mainland China (Table 9)
  - 1) Information on any investee company in mainland China, showing the name, principal business activities, paid-in capital, method of investment, inward and outward remittance of funds, ownership percentage, net income of investees, investment income or loss, carrying amount of the investment at the end of the period, repatriations of investment income, and limit on the amount of investment in the mainland China area.
  - 2) Any of the following significant transactions with investee companies in mainland China, either directly or indirectly through a third party, and their prices, payment terms, and unrealized gains or losses:
    - a) The amount and percentage of purchases and the balance and percentage of the related payables at the end of the period.
    - b) The amount and percentage of sales and the balance and percentage of the related receivables at the end of the period.
    - c) The amount of property transactions and the amount of the resultant gains or losses.
    - d) The balance of negotiable instrument endorsements or guarantees or pledges of collateral at the end of the period and the purposes.
    - e) The highest balance during the year, the end of period balance, the interest rate range, and total current period interest with respect to financing of funds.
    - f) Other transactions that have a material effect on the profit or loss for the period or on the financial position, such as the rendering or receipt of service.

FINANCINGS PROVIDED TO OTHERS FOR THE YEAR ENDED DECEMBER 31, 2018 (In Thousands of New Taiwan Dollars)

|     |  |   |   |                    |                                   |                | Actual     |                      |   | Business              | Reason for              | Allowance for      | C    | Collateral | Financing Limit                | Aggregate              |         |
|-----|--|---|---|--------------------|-----------------------------------|----------------|------------|----------------------|---|-----------------------|-------------------------|--------------------|------|------------|--------------------------------|------------------------|---------|
| No. | Lender                                     | Borrower  | Financial<br>Statement Account                            | Related<br>Parties | Highest Balance<br>for the Period | Ending Balance |            | Interest<br>Rate (%) | Nature of Financing                         | Transaction<br>Amount | Short-term<br>Financing | Impairment<br>Loss | Item | Value      | for Each<br>Borrower<br>(Note) | Financing Limit (Note) | Note    |
| 1   |  | TCC Chemical Corporation                              | Other receivables -                                       | Yes                | \$ 300,000                        | \$ 300,000     | \$ 300,000 | 1.54                 | The need for short-term                     | \$ -                  | Operating capital       | s -                |      | s -        | \$ 866,327                     | \$ 866,327             |         |
|     | Corporation                                | Ta-Ho RSEA Environment Co., Ltd.                      | related parties<br>Other receivables -<br>related parties | Yes                | 10,000                            | -              | -          | -                    | financing The need for short-term financing | -                     | Operating capital       | -                  |      | -          | 866,327                        | 866,327                |         |
|     |  |   | Î   |                    |                                   |                |            |                      |   |                       |                         |                    |      |            |                                |                        |         |
| 2   | Ta-Ho Taitung Environment Co.,<br>Ltd.     | Onyx Ta-Ho Energy Recovery<br>Co., Ltd                | Other receivables -<br>related parties                    | Yes                | 110,000                           | -              | -          | -                    | The need for short-term financing           | -                     | Operating capital       | =                  |      | =          | 118,875                        | 118,875                |         |
| 3   | Taiwan Cement Engineering                  | TCC Chemical Corporation                              | Other receivables -                                       | Yes                | 200,000                           | 200,000        | 200,000    | 1.54                 | The need for short-term                     | -                     | Operating capital       | -                  |      | -          | 291,726                        | 291,726                |         |
|     | Corporation                                |   | related parties   |                    |                                   |                |            |                      | financing                                   |                       |                         |                    |      |            |                                |                        |         |
| 4   | TCC Green Energy Corporation               | TCC Kao-Cheng Green Energy                            | Other receivables -                                       | Yes                | 5,000                             | 5,000          | 2,000      | 1.54                 | The need for short-term                     | -                     | Operating capital       | -                  |      | -          | 591,272                        | 591,272                |         |
|     |  | Corporation   | related parties   | Yes                | 5,000                             | 5,000          | 2,000      | 1.54                 | financing<br>The need for short-term        |                       | O                       |                    |      |            | 591,272                        | 591,272                |         |
|     |  | TCC LIEN-HSIN Green Energy<br>Corporation             | Other receivables -<br>related parties                    | res                | 3,000                             | 3,000          | 2,000      | 1.54                 | financing                                   | -                     | Operating capital       | -                  |      | -          | 391,272                        | 391,272                |         |
| 5   | TCC (Guigang) Cement Ltd.                  | TCC Huaying Cement Company                            | Other receivables -                                       | Yes                | 1,373,760                         | 1,287,343      | 715,190    | 3.48                 | The need for short-term                     | -                     | Operating capital       | -                  |      | -          | 22,406,521                     | 44,813,042             |         |
|     |  | Limited<br>TCC Huaihua Cement Company                 | related parties<br>Other receivables -                    | Yes                | 954,000                           | 893,988        | 422,856    | 3.48                 | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | -          | 22,406,521                     | 44,813,042             |         |
|     |  | Limited<br>TCC Jingzhou Cement Company                | related parties<br>Other receivables -                    | Yes                | 715,500                           | 670,491        | 581,092    | 3.48                 | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | -          | 22,406,521                     | 44,813,042             |         |
|     |  | Limited<br>Scitus Luzhou Cement Co., Ltd.             | related parties<br>Other receivables -                    | Yes                | 1,335,600                         | 1,251,583      | =          | -                    | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | -          | 22,406,521                     | 44,813,042             |         |
|     |  | TCC Anshun Cement Company                             | related parties<br>Other receivables -                    | Yes                | 477,000                           | 446,994        | -          | -                    | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | -          | 22,406,521                     | 44,813,042             |         |
|     |  | Limited<br>Scitus Naxi Cement Co., Ltd.               | related parties<br>Other receivables -                    | Yes                | 477,000                           | 446,994        | -          | -                    | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | -          | 22,406,521                     | 44,813,042             |         |
|     |  | TCC Yingde Cement Co., Ltd.                           | related parties<br>Other receivables -                    | Yes                | 477,000                           | 446,994        | -          | -                    | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | -          | 22,406,521                     | 44,813,042             |         |
|     |  | Scitus Luzhou Concrete Co., Ltd.                      | related parties<br>Other receivables -                    | Yes                | 95,400                            | 89,399         | -          | -                    | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | -          | 22,406,521                     | 44,813,042             |         |
|     |  | Guizhou Kong On Cement Company                        |   | Yes                | 310,050                           | 290,546        | =          | -                    | The need for short-term                     | -                     | Operating capital       | -                  |      | -          | 22,406,521                     | 44,813,042             |         |
|     |  | Limited Guigang TCC DongYuan Environmental Technology | related parties<br>Other receivables -<br>related parties | Yes                | 854,991                           | -              | -          | -                    | financing The need for short-term financing | -                     | Operating capital       | -                  |      | -          | 22,406,521                     | 44,813,042             |         |
| l   |  | Company Limited                                       |   |                    |                                   |                |            |                      |   |                       |                         |                    |      |            |                                |                        |         |
| 6   | Yingde Dragon Mountain Cement<br>Co., Ltd. | TCC Yingde Cement Co., Ltd.                           | Other receivables -<br>related parties                    | Yes                | 954,000                           | 893,988        | -          | -                    | The need for short-term<br>financing        | =                     | Operating capital       | =                  |      | -          | 13,222,157                     | 26,444,314             |         |
|     | Co., Liu.                                  | TCC Liaoning Cement Company<br>Limited                | Other receivables -<br>related parties                    | Yes                | 1,087,560                         | 1,019,146      | 1,019,146  | 3.05                 | The need for short-term financing           | -                     | Operating capital       | -                  |      | -          | 13,222,157                     | 26,444,314             |         |
| _   |  |   | Î   |                    | 054,000                           | 002.000        |            |                      |   |                       |                         |                    |      |            | 21 247 265                     | 42 404 720             |         |
| 7   | TCC Yingde Cement Co., Ltd.                | TCC Guangan Cement Company<br>Limited                 | Other receivables -<br>related parties                    | Yes                | 954,000                           | 893,988        | -          | -                    | The need for short-term<br>financing        | -                     | Operating capital       | -                  |      | -          | 21,247,365                     | 42,494,730             |         |
|     |  | TCC Huaihua Cement Company<br>Limited                 | Other receivables -<br>related parties                    | Yes                | 954,000                           | 893,988        | 748,715    | 3.48                 | The need for short-term financing           | -                     | Operating capital       | -                  |      | -          | 21,247,365                     | 42,494,730             |         |
|     |  | Scitus Naxi Cement Co., Ltd.                          | Other receivables -<br>related parties                    | Yes                | 238,500                           | 223,497        | 67,049     | 3.48                 | The need for short-term financing           | -                     | Operating capital       | -                  |      | -          | 21,247,365                     | 42,494,730             |         |
|     |  | TCC Shaoguan Cement Co., Ltd.                         | Other receivables -<br>related parties                    | Yes                | 353,411                           | 331,179        | 331,179    | 3.68                 | The need for short-term financing           | -                     | Operating capital       | -                  |      | -          | 21,247,365                     | 42,494,730             |         |
|     |  | TCC Jingzhou Cement Company<br>Limited                | Other receivables -<br>related parties                    | Yes                | 238,500                           | 223,497        | =          | -                    | The need for short-term financing           | -                     | Operating capital       | -                  |      | -          | 21,247,365                     | 42,494,730             |         |
|     |  | TCC Anshun Cement Company<br>Limited                  | Other receivables -<br>related parties                    | Yes                | 954,000                           | 893,988        | -          | -                    | The need for short-term financing           | -                     | Operating capital       | -                  |      | -          | 21,247,365                     | 42,494,730             |         |
|     |  |   |   |                    |                                   |                |            |                      |   |                       |                         |                    |      | 1          |                                |                        | ontinue |

|      |                             |   | Financial   | Dalata 1           | High and Dale                     |                | Actual              | Intone               |   | Business              | Reason for              | Allowance for      | C    | ollateral | Financing Limit                | \$ 42,494,730 42,494,730 42,494,730 42,494,730 42,494,730 42,494,730 42,494,730 2,738,358 2,738,3 |          |
|------|-----------------------------|---|---|--------------------|-----------------------------------|----------------|---------------------|----------------------|---|-----------------------|-------------------------|--------------------|------|-----------|--------------------------------|---|----------|
| No.  | Lender                      | Borrower  | Financial<br>Statement Account                            | Related<br>Parties | Highest Balance<br>for the Period | Ending Balance | Borrowing<br>Amount | Interest<br>Rate (%) | Nature of Financing                         | Transaction<br>Amount | Short-term<br>Financing | Impairment<br>Loss | Item | Value     | for Each<br>Borrower<br>(Note) |   | Not      |
|      |                             | TCC (Dong Guan) Cement                                      | Other receivables -                                       | Yes                | \$ 477,000                        | \$ 446,994     | \$ -                | -                    | The need for short-term                     | \$ -                  | Operating capital       | \$ -               |      | s -       | \$ 21,247,365                  | \$ 42,494,730   |          |
|      |                             | Company Limited<br>TCC Chongqing Cement Company             | related parties<br>Other receivables -                    | Yes                | 477,000                           | 446,994        | 178,798             | 3.48                 | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | -         | 21,247,365                     | 42,494,730  |          |
|      |                             | Limited.<br>Guizhou Kaili Rui An Jian Cai Co.,              | related parties<br>Other receivables -                    | Yes                | 715,500                           | 670,491        | -                   | -                    | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | -         | 21,247,365                     | 42,494,730  |          |
|      |                             | Ltd.<br>Scitus Luzhou Cement Co., Ltd.                      | related parties<br>Other receivables -                    | Yes                | 858,600                           | 804,589        | -                   | -                    | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | -         | 21,247,365                     | 42,494,730  |          |
|      |                             | TCC Liaoning Cement Company                                 | related parties<br>Other receivables -                    | Yes                | 224,865                           | 223,497        | 89,399              | 3.48                 | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | -         | 21,247,365                     | 42,494,730  |          |
|      |                             | Limited.<br>Guizhou Kong On Cement Company                  |   | Yes                | 477,000                           | 446,994        | 138,568             | 3.48                 | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | -         | 21,247,365                     | 42,494,730  |          |
|      |                             | Limited   | related parties   |                    |                                   |                |                     |                      | financing                                   |                       |                         |                    |      |           |                                |   |          |
| 8 7  | CCC Fuzhou Cement Co., Ltd. | TCC New (Hangzhou) Management Co., Ltd.                     | Other receivables -<br>related parties                    | Yes                | 477,000                           | 446,994        | -                   | -                    | The need for short-term<br>financing        | -                     | Operating capital       | -                  |      | -         | 912,786                        |   |          |
|      |                             | TCC Liaoning Cement Co., Ltd.                               | Other receivables -<br>related parties                    | Yes                | 333,900                           | 312,896        | 134,098             | 3.48                 | The need for short-term<br>financing        | ÷                     | Operating capital       |                    |      | -         | 912,786                        |   |          |
|      |                             | Guizhou Kaili Rui An Jian Cai Co.,<br>Ltd.                  | Other receivables -<br>related parties                    | Yes                | 238,500                           | 223,497        | =                   | =                    | The need for short-term financing           | -                     | Operating capital       |                    |      | -         | 912,786                        | 2,738,358   |          |
| 9 1  | CCIH                        | TCC Yingde Cement Co., Ltd.                                 | Other receivables - related parties                       | Yes                | 249,093                           | 232,798        | 232,798             | =                    | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 115,379,289                    | 230,758,578   |          |
| 10 F | rime York Ltd.              | Upper Value Investment Limited                              | Other receivables -<br>related parties                    | Yes                | 201,195                           | 199,971        | 199,971             | -                    | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 2,741,280                      | 5,482,560   |          |
| 11 J | urong TCC Cement Co., Ltd.  | TCC Huaihua Cement Company                                  | Other receivables -                                       | Yes                | 1,192,500                         | 1,117,485      | 1,028,086           | 3.48                 | The need for short-term                     | =                     | Operating capital       | -                  |      | -         | 12,552,681                     | 25,105,362  |          |
|      |                             | Limited TCC Liaoning Cement Company                         | related parties<br>Other receivables -                    | Yes                | 333,900                           | 312,896        | 290,546             | 3.48                 | financing The need for short-term           | -                     | Operating capital       | -                  |      | -         | 12,552,681                     | 25,105,362  |          |
|      |                             | Limited<br>Scitus Luzhou Cement Co., Ltd.                   | related parties<br>Other receivables -                    | Yes                | 715,500                           | 670,491        | 89,399              | 3.48                 | financing The need for short-term           | -                     | Operating capital       | -                  |      | -         | 12,552,681                     | 25,105,362  |          |
|      |                             | TCC Huaihua Concrete Company                                | related parties<br>Other receivables -                    | Yes                | 143,100                           | 134,098        | 44,699              | 3.48                 | financing The need for short-term           | -                     | Operating capital       | -                  |      | -         | 12,552,681                     | 25,105,362  |          |
|      |                             | Limited TCC Chongqing Cement Company Limited                | related parties<br>Other receivables -                    | Yes                | 954,000                           | 893,988        | 312,896             | 3.48                 | financing The need for short-term financing | -                     | Operating capital       | -                  |      | -         | 12,552,681                     | 25,105,362  |          |
|      |                             | TCC Anshun Cement Company                                   | related parties Other receivables -                       | Yes                | 954,000                           | 893,988        | -                   | -                    | The need for short-term                     | -                     | Operating capital       | -                  |      | -         | 12,552,681                     | 25,105,362  |          |
|      |                             | Limited<br>TCC Yingde Cement Co., Ltd.                      | related parties<br>Other receivables -                    | Yes                | 477,000                           | 446,994        | -                   | -                    | financing The need for short-term           | =                     | Operating capital       | =                  |      | -         | 12,552,681                     | 25,105,362  |          |
|      |                             | TCC Guangan Cemen Company<br>Limited                        | related parties<br>Other receivables -<br>related parties | Yes                | 477,000                           | 446,994        | -                   | -                    | financing The need for short-term financing | =                     | Operating capital       | =                  |      | -         | 12,552,681                     | 25,105,362  |          |
|      |                             | Guizhou Kong On Cement Company<br>Limited                   |   | Yes                | 333,900                           | 312,896        | -                   | -                    | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 12,552,681                     | 25,105,362  |          |
| 12 7 | CCC Anshun Cement Co., Ltd. | Anshun Xin Tai Construction                                 | Other receivables -                                       | Yes                | 95,400                            | 89,399         | -                   | -                    | The need for short-term                     | -                     | Operating capital       | -                  |      | -         | 7,530,274                      | 15,060,548  | <u> </u> |
|      |                             | Materials Company Limited<br>Guizhou Kong On Cement Company |   | Yes                | 286,200                           | 268,196        | 245,847             | 3.48                 | financing The need for short-term           | -                     | Operating capital       | -                  |      | -         | 7,530,274                      | 15,060,548  |          |
|      |                             | Limited<br>Scitus Luzhou Cement Co., Ltd.                   | related parties<br>Other receivables -                    | Yes                | 143,100                           | 134,098        | 134,098             | 3.48                 | The need for short-term                     | -                     | Operating capital       | -                  |      | -         | 7,530,274                      | 15,060,548  |          |
|      |                             | Guizhou Kaili Rui An Jian Cai Co.,                          | related parties<br>Other receivables -                    | Yes                | 143,100                           | 134,098        | -                   | -                    | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | -         | 7,530,274                      | 15,060,548  |          |
|      |                             | Ltd.<br>Scitus Luzhou Concrete Co., Ltd.                    | related parties<br>Other receivables -                    | Yes                | 143,100                           | 134,098        | -                   | -                    | financing The need for short-term           | -                     | Operating capital       | -                  |      | -         | 7,530,274                      | 15,060,548  |          |
|      |                             | TCC Chongqing Cement Company<br>Limited                     | related parties<br>Other receivables -<br>related parties | Yes                | 477,000                           | 446,994        | 446,994             | 3.48                 | financing The need for short-term financing | -                     | Operating capital       | -                  |      | -         | 7,530,274                      | 15,060,548  |          |
| 13 1 |                             | Scitus Luzhou Cement Co., Ltd.                              | Other receivables -                                       | Yes                | 143,100                           | 134,098        | 134,098             | 3.48                 | The need for short-term                     | -                     | Operating capital       | -                  |      | -         | 3,946,039                      | 7,892,078   |          |
|      | Limited                     | Guizhou Kaili Rui An Jian Cai Co.,<br>Ltd.                  | related parties   |                    | 95,400                            | 89,399         | -                   | -                    | financing The need for short-term financing | -                     | Operating capital       | -                  |      | -         | 3,946,039                      | 7,892,078   |          |
| 14 V | Vayly Holdings Ltd.         | Guizhou Kaili Rui An Jian Cai Co.,<br>Ltd.                  | Other receivables -<br>related parties                    | Yes                | 61,865                            | 61,489         | 61,489              | -                    | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 3,796,595                      | 7,593,190   |          |

|     |  |  |  |                    |                                   |                | Actual              |                      |   | Business              | Reason for              | Allowance for      | C    | ollateral | Financing Limit                | Aggregate                 | ī    |
|-----|--|--|--|--------------------|-----------------------------------|----------------|---------------------|----------------------|---|-----------------------|-------------------------|--------------------|------|-----------|--------------------------------|---------------------------|------|
| No. | Lender   | Borrower   | Financial<br>Statement Account         | Related<br>Parties | Highest Balance<br>for the Period | Ending Balance | Borrowing<br>Amount | Interest<br>Rate (%) | Nature of Financing                         | Transaction<br>Amount | Short-term<br>Financing | Impairment<br>Loss | Item | Value     | for Each<br>Borrower<br>(Note) | Financing Limit<br>(Note) | Note |
| 15  | TCC Chongqing Cement<br>Company Limited                | Guizhou Kaili Rui An Jian Cai<br>Co., Ltd.           | Other receivables -<br>related parties | Yes                | \$ 238,500                        | \$ 223,497     | \$ 44,699           | 3.48                 | The need for short-term financing           | \$ -                  | Operating capital       | \$ -               |      | s -       | \$ 6,857,651                   | \$ 13,715,302             |      |
|     |  | Scitus Naxi Cement Co., Ltd.                         |  | Yes                | 143,100                           | 134,098        | 134,098             | 3.48                 | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 6,857,651                      | 13,715,302                | 1    |
|     |  | TCC Huaihua Cement Company<br>Limited                |  | Yes                | 715,500                           | 670,491        | 549,356             | 3.48                 | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 6,857,651                      | 13,715,302                |      |
|     |  | TCC Huaying Cement Company Limited                   |  | Yes                | 119,250                           | 111,749        | -                   | -                    | The need for short-term                     | -                     | Operating capital       | -                  |      | -         | 6,857,651                      | 13,715,302                |      |
|     |  | TCC Guangan Cement Company                           |  | Yes                | 477,000                           | 446,994        | -                   | -                    | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | -         | 6,857,651                      | 13,715,302                |      |
|     |  | Limited<br>Scitus Luzhou Cement Co., Ltd.            |  | Yes                | 238,500                           | 223,497        | -                   | -                    | financing<br>The need for short-term        | -                     | Operating capital       | -                  |      | -         | 6,857,651                      | 13,715,302                | 1    |
|     |  | TCC Jingzhou Cement Company                          |  | Yes                | 95,400                            | 89,399         | -                   | -                    | financing<br>The need for short-term        | =                     | Operating capital       | -                  |      | =         | 6,857,651                      | 13,715,302                | 1    |
|     |  | Limited<br>Guizhou Kong On Cement Company<br>Limited | Other receivables -<br>related parties | Yes                | 143,100                           | 134,098        | -                   | -                    | financing The need for short-term financing | -                     | Operating capital       | -                  |      | -         | 6,857,651                      | 13,715,302                |      |
| 16  | TCC New (Hangzhou)  Management Company Limited         | Scitus Luzhou Cement Co., Ltd.                       | Other receivables -<br>related parties | Yes                | 295,740                           | 277,136        | 232,437             | 3.48                 | The need for short-term financing           | -                     | Operating capital       |                    |      | -         | 603,048                        | 1,206,096                 |      |
|     |  | Scitus Naxi Cement Co., Ltd.                         |  | Yes                | 262,350                           | 245,847        | 196,677             | 3.48                 | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 603,048                        | 1,206,096                 |      |
|     |  | Scitus Luzhou Concrete Co., Ltd.                     |  | Yes                | 38,160                            | 35,760         | -                   | -                    | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 603,048                        | 1,206,096                 |      |
| 17  | Prosperity Minerals (China)<br>Limited                 | TCC New (Hangzhou) Management<br>Company Limited     | Other receivables -<br>related parties | Yes                | 380,392                           | 356,463        | 356,463             | -                    | The need for short-term financing           | 1                     | Operating capital       | -                  |      | -         | 976,080                        | 1,952,160                 |      |
| 18  | Da Tong (Guigang) International<br>Logistics Co., Ltd. | Guigang Da-Ho Shipping Co., Ltd.                     | Other receivables -<br>related parties | Yes                | 143,100                           | 134,098        | -                   | -                    | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 636,691                        | 1,273,382                 |      |
| 19  | Guizhou Kaili Rui An Jian Cai<br>Co., Ltd.             | Scitus Naxi Cement Co., Ltd.                         | Other receivables -<br>related parties | Yes                | 143,100                           | 134,098        | 134,098             | 3.48                 | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 3,747,453                      | 7,494,906                 |      |
| 20  | TCC Huaihua Cement Company<br>Limited                  | TCC Jingzhou Cement Company<br>Limited               | Other receivables -<br>related parties | Yes                | 95,400                            | 89,399         | -                   | -                    | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 2,697,458                      | 5,394,916                 |      |
| 21  | Scitus Luzhou Cement Co., Ltd.                         | Guizhou Kaili Rui An Jian Cai<br>Co., Ltd.           | Other receivables -<br>related parties | Yes                | 95,400                            | 89,399         | 44,699              | 3.48                 | The need for short-term financing           | -                     | Operating capital       | -                  |      | -         | 2,508,011                      | 5,016,022                 |      |

Note 1: "Financing Limits for Each Borrower" and "Aggregate Financing Limits":

- A. For Taiwan Cement Corporation, financing limits are as follows:
  - a. Where a business relationship exists, the individual financing limits were the total transaction amounts with the borrower and 20% of Taiwan Cement Corporation's net equity in the recent year.
  - b. Where there is a need for a short-term financing facility, the individual financing limits were 20% of Taiwan Cement Corporation's net equity as stated in its latest financial statements.
  - c. For the above items a and b, the aggregate financing limits were 40% of Taiwan Cement Corporation's net equity as stated in its latest financial statements.
- B. The restrictions above in paragraph A, subparagraphs b and c shall not apply to inter-company loans of funds between foreign companies of which Taiwan Cement Corporation holds, directly or indirectly, 100% of the voting shares. The aggregate and individual financing limits for the companies were 200% and 100%, respectively, of the net equity of each company as stated in their respective latest financial statements. In addition, the aggregate and individual financing limits for TCC International Ltd. were both 40% of its net equity as stated in its latest financial statements. The aggregate and individual financing limits for TCC New (Hangzhou) Management Co., Ltd. were 600% and 300%, respectively, of its net equity as stated in its latest financial statements. The aggregate and individual financing limits for Prosperity Minerals (China) Ltd. were 400% and 200%, respectively, of its net equity as stated in its latest financial statements.
- C. The individual and aggregate financing limits for the other companies were 40% of the net equity of each respective company.
- Note 2: All intercompany transactions have been eliminated upon consolidation.

(Concluded)

ENDORSEMENTS/GUARANTEES PROVIDED FOR THE YEAR ENDED DECEMBER 31, 2018

(In Thousands of New Taiwan Dollars)

|     |                           | Endorsee/Guarante  | e                        | Limits on   | Maximum   |  |                               |   | Ratio of   |  |  |  |   |      |
|-----|---------------------------|--|--------------------------|---|---|--|-------------------------------|---|--|--|--|--|---|------|
| No. | Endorser/Guarantor        | Name   | Relationship<br>(Note 3) | Endorsement/<br>Guarantee Given<br>on Behalf of<br>Each Party<br>(Note 1) | Amount<br>Endorsed/<br>Guaranteed<br>During the<br>Period | Outstanding<br>Endorsement/<br>Guarantee at the<br>End of the Period | Actual<br>Borrowing<br>Amount | Amount<br>Endorsed/<br>Guaranteed by<br>Collaterals | Accumulated<br>Endorsement/<br>Guarantee to Net<br>Equity in Latest<br>Financial<br>Statements (%) | Aggregate<br>Endorsement/<br>Guarantee Limit<br>(Note 2) | Endorsement/<br>Guarantee Given<br>by Parent on<br>Behalf of<br>Subsidiaries | Endorsement/<br>Guarantee Given<br>by Subsidiaries<br>on Behalf of<br>Parent | Endorsement/<br>Guarantee Given<br>on Behalf of<br>Companies in<br>Mainland China | Note |
| 0   | Taiwan Cement Corporation | TCCI   | b                        | \$ 90,770,755   | \$ 28,902,815   | \$ 27,981,365  | \$ 1,474,320                  | s -   | 15.41  | \$ 181.541.510   | Y  | N  | N   |      |
| U   | Tarwan Cement Corporation | TCC Investment Corporation                                       | h                        | 90,770,755  | 2,600,000   | 2,570,000  | 1,470,000                     | Ψ -   | 1.42   | 181.541.510  | Y  | N  | N   |      |
|     |                           | TCC Chemical Corporation   | b                        | 90,770,755  | 1,913,000   | 1,493,000  | 760,000                       | _   | 0.82   | 181,541,510  | Y  | N  | N   |      |
|     |                           | Union Cement Traders Inc.  | c                        | 90,770,755  | 1,450,000   | 1,420,000  | 690,000                       | -   | 0.78   | 181,541,510  | Y  | N  | N   |      |
|     |                           | Jin Chang Minerals Corporation                                   | h                        | 90,770,755  | 68,848  | 68,848   | 39,814                        | 39,814  | 0.78   | 181,541,510  | Y  | N  | N   |      |
|     |                           | Ho Sheng Mining Co., Ltd.  | b                        | 90,770,755  | 99,884  | 99,884   | 32,014                        | 99,884  | 0.04   | 181,541,510  | Y  | N  | N   |      |
|     |                           | OYAK CEMENT PORTUGAL   | f                        | 90,770,755  | 3,083,000   | 3,071,500  |                               | <i>&gt;&gt;</i> ,004                                | 1.69   | 181,541,510  | N  | N  | N   |      |
|     |                           | S.A.   | 1                        | 70,770,733  | 3,003,000   | 3,071,300  | _                             |   | 1.09   | 101,541,510  | 11   | 14   | 1   |      |
| 1   | TCCIH                     | TCC (Guigang) Cement Ltd.  | c                        | 57,689,644  | 11,418,475  | 11,418,475   | 844,091                       | -   | 9.90   | 115,379,289  | Y  | N  | Y   |      |
| -   |                           | TCC Yingde Cement Co., Ltd.                                      | c                        | 57,689,644  | 2,657,542   | 2,644,802  | 294,180                       | -   | 2.29   | 115,379,289  | Y  | N  | Y   |      |
|     |                           | Jurong TCC Cement Co., Ltd.                                      | c                        | 57,689,644  | 3,045,684   | 3,022,483  | -                             | -   | 2.62   | 115,379,289  | Y  | N  | Y   |      |
|     |                           | TCC Chongqing Cement Company<br>Limited                          | С                        | 57,689,644  | 1,847,678   | 1,835,042  | -                             | -   | 1.59   | 115,379,289  | Y  | N  | Y   |      |
|     |                           | TCC Fuzhou Cement Co., Ltd.                                      | с                        | 57,689,644  | 1,242,630   | 1,188,303  | 44,699                        | -   | 1.03   | 115,379,289  | Y  | N  | Y   |      |
|     |                           | Scitus Luzhou Cement Co., Ltd.                                   | с                        | 57,689,644  | 928,650   | 921,450  | -                             | -   | 0.80   | 115,379,289  | Y  | N  | Y   |      |
|     |                           | TCC Liaoning Cement Company<br>Limited                           | с                        | 57,689,644  | 1,265,580   | 900,854  | -                             | -   | 0.78   | 115,379,289  | Y  | N  | Y   |      |
|     |                           | Guizhou Kaili Rui An Jian Cai<br>Co., Ltd.                       | с                        | 57,689,644  | 619,100   | 614,300  | -                             | -   | 0.53   | 115,379,289  | Y  | N  | Y   |      |
|     |                           | Guizhou Kong On Cement<br>Company Limited                        | с                        | 57,689,644  | 360,096   | 310,222  | -                             | -   | 0.27   | 115,379,289  | Y  | N  | Y   |      |
|     |                           | Baoshan Kungang & K. Wah Cement Construction Materials Co., Ltd. | e                        | 57,689,644  | -   | -  | -                             | -   | -  | 115,379,289  | N  | N  | Y   |      |
|     |                           | TCC Anshun Cement Company<br>Limited                             | с                        | 57,689,644  | 674,595   | 670,491  | -                             | -   | 0.58   | 115,379,289  | Y  | N  | Y   |      |
| 2   | TCC (Guigang) Cement Ltd. | TCCI (HK)  | d                        | 11,203,260  | 685,260   | -  | -                             | -   | -  | 22,406,521   | N  | Y  | N   |      |
| 3   | Ho Sheng Mining Co., Ltd. | Taiwan Cement Corporation  | d                        | 375,351   | 137,462   | 137,462  | 137,462                       | -   | 109.87   | 375,351  | N  | Y  | N   |      |

Note 1: Limits on endorsement/guarantee given on behalf of each party were as follows:

- a. For Taiwan Cement Corporation, TCCIH and TCC (Guigang) Cement Limited, 50% of the net equity as stated in their respective financial statements.
- b. For endorsement/guarantee given by Taiwan Cement Corporation due to business transactions, 50% of the business transaction amounts in the previous year.
- c. For Ho Sheng Mining Co., Ltd., 300% of its net equity as stated in its latest financial statements.

Note 2: Aggregate endorsement/guarantee limit was for Ho Sheng Mining Co., Ltd., 300% of its net equity as stated in its latest financial statements and others were the net equity in the latest financial statements.

Note 3: Relationship between the endorser/guarantor and the endorsee/guarantee is classified as follows:

- a. Having a business relationship.
- b. The endorser/guarantor owns directly more than 50% of the ordinary shares of the endorsee/guarantee.
- c. The endorser/guarantor and its subsidiaries jointly own more than 50% of the ordinary shares of the endorsee/guarantee.
- d. The endorsee/guarantee directly or indirectly owns more than 90% of the ordinary shares of the endorser/guarantor.
- e. Due to joint venture, each shareholder provides endorsements/guarantees to the endorsee/guarantee in proportion to its ownership.

MARKETABLE SECURITIES HELD DECEMBER 31, 2018 (In Thousands of New Taiwan Dollars)

|   |  |   |                             |                                | December           | 31, 2018                          |            |                         |
|---|--|---|-----------------------------|--------------------------------|--------------------|-----------------------------------|------------|-------------------------|
| Holding Company Name                    | Type and Name of Marketable Securities | Relationship with the Holding Company                                   | Financial Statement Account | Shares/Units<br>(In Thousands) | Carrying<br>Amount | Percentage of<br>Ownership<br>(%) | Fair Value | Note                    |
| Taiwan Cement Corporation               | Ordinary shares                        |   |                             |                                |                    |                                   |            |                         |
| Tarwan Cement Corporation               | Chien Kuo Construction Co., Ltd.       | _   | FVTPL - current             | 9,403                          | \$ 91,583          | _                                 | \$ 91,583  |                         |
|   | Taiwan Television Enterprise, Ltd.     | The Corporation serves as supervisor                                    | FVTPL - current             | 13,573                         | 85,780             | _                                 | 85,780     |                         |
|   | Chinatrust Financial Holding Co., Ltd. | -   | FVTPL - current             | 3,576                          | 72.227             | _                                 | 72,227     |                         |
|   | China Hi-Ment Corporation              | The Corporation serves as director                                      | FVTOCI - current            | 30,196                         | 1,512,828          | _                                 | 1,512,,828 |                         |
|   | Taishin Financial Holding Co., Ltd.    | -   | FVTOCI - current            | 61,149                         | 797,993            | _                                 | 797.993    |                         |
|   | CTCI Corporation                       | _   | FVTOCI - current            | 9,054                          | 402,013            | _                                 | 402,013    |                         |
|   | Chia Hsin Cement Corporation           | Directors   | FVTOCI - current            | 27,419                         | 372,904            | _                                 | 372,904    |                         |
|   | O-Bank                                 | The Corporation serves as director                                      | FVTOCI - current            | 29,719                         | 237,752            | _                                 | 237,752    |                         |
|   | IBT II Venture Capital Corporation     | -   | FVTOCI - non-current        | 2,626                          | 19,093             | 8.3                               | 19,093     |                         |
|   | Rong Gong Enterprise Co.               | The Corporation serves as supervisor                                    | FVTOCI - non-current        | 3,390                          | 12,306             | 4.0                               | 12,306     |                         |
| I                                       | Chinatrust Investment Co., Ltd.        | The Corporation serves as director                                      | FVTOCI - non-current        | 29,553                         | 972,871            | 9.4                               | 972,871    |                         |
|   | Pan Asia Corporation                   | The Corporation serves as supervisor                                    | FVTOCI - non-current        | 6.204                          | 8.996              | 5.4                               | 8,996      |                         |
|   | Taiwan Stock Exchange Corporation      | The Corporation serves as director                                      | FVTOCI - non-current        | 45,983                         | 3,371,909          | 6.6                               | 3,371,909  |                         |
|   | Excel Corporation                      | -   | FVTOCI - non-current        | 600                            | -                  | 9.5                               | -          |                         |
|   |  |   |                             |                                |                    |                                   |            |                         |
| I                                       | Preference shares<br>O-Bank            | The Corporation serves as director                                      | FVTOCI - current            | 2,956                          | 29,559             | -                                 | 29,559     |                         |
| Taiwan Transport & Storage Corporation  | Ordinary shares                        |   |                             |                                |                    |                                   |            |                         |
| Talwaii Transport & Storage Corporation | Chia Hsin Cement Corporation           | Director of parent company  | FVTOCI - current            | 8,632                          | 117,389            | -                                 | 117,389    |                         |
| TCC Investment Corporation              | Ordinary shares                        |   |                             |                                |                    |                                   |            |                         |
|   | O-Bank                                 | The Corporation serves as director                                      | FVTOCI - current            | 21,934                         | 175,471            | -                                 | 175,471    | 21,000                  |
|   |  |   |                             |                                |                    |                                   |            | thousand<br>shares were |
|   |  |   |                             |                                |                    |                                   |            |                         |
|   | Taishin Financial Holding Co., Ltd.    |   | FVTOCI - current            | 11.697                         | 152.650            |                                   | 152,650    | pledged                 |
|   | Chia Hsin Cement Corporation           | Director of parent company  | FVTOCI - current            | 8,334                          | 113,341            | _                                 | 113,341    | 7,000 thousand          |
|   | Cina Hsin Cement Corporation           | Director of parent company  | FV TOCT - current           | 6,554                          | 113,341            | -                                 | 113,341    | shares were             |
|   | China Conch Venture Holdings Limited   |   | FVTOCI - non-current        | 28,000                         | 2,558,060          | _                                 | 2,558,060  | pledged                 |
|   | Chinatrust Investment Co., Ltd.        | The Corporation serves as director                                      | FVTOCI - non-current        | 10,884                         | 358,297            | 3.5                               | 358,297    |                         |
|   | Pan Asia Corporation                   | The Corporation serves as unector  The Corporation serves as supervisor | FVTOCI - non-current        | 10,884                         | 338,297            | 3.3                               | 338,297    |                         |
|   | ran Asia Corporation                   | The Corporation serves as supervisor                                    | 1. A LOCI - Holl-current    | 1                              | 14                 | -                                 | 14         |                         |
| TCC Investment Corporation              | Preference shares                      |   |                             |                                |                    |                                   |            |                         |
| Tee Investment Corporation              | O-Bank                                 | The Corporation serves as director                                      | FVTOCI - current            | 2,182                          | 21,816             | -                                 | 21,816     |                         |
| Ta-Ho Maritime Corporation              | Ordinary shares                        |   |                             |                                |                    |                                   |            |                         |
| Ta 110 Martine Corporation              | Prosperity Dielectrics Co., Ltd.       | _   | FVTPL - current             | 951                            | 56,977             |                                   | 56,977     |                         |
|   | Chia Hsin Cement Corporation           | Director of parent company  | FVTOCI - current            | 25,761                         | 350,353            |                                   | 350,353    |                         |
|   | Chinatrust Investment Co., Ltd.        | The Corporation serves as director                                      | FVTOCI - current            | 6,612                          | 217,656            | 2.1                               | 217,656    |                         |
| I                                       |  |   |                             | 0,012                          | 217,000            |                                   | 217,000    |                         |

|  |   |                                       |   |                                    | December                                 | 31, 2018                          |  |      |
|--|---|---------------------------------------|---|------------------------------------|--|-----------------------------------|--|------|
| Holding Company Name                   | Type and Name of Marketable Securities  | Relationship with the Holding Company | Financial Statement Account   | Shares/Units<br>(In Thousands)     | Carrying<br>Amount                       | Percentage of<br>Ownership<br>(%) | Fair Value                               | Note |
| Taiwan Cement Engineering Corporation  | Beneficiary certificates Capital Money Market Fund  | -                                     | FVTPL - current   | 2,930                              | \$ 47,203                                | -                                 | \$ 47,203                                |      |
| TCC Chemical Corporation               | Ordinary shares Taiwan Stock Exchange Corporation   | The Corporation serves as director    | FVTOCI - non-current  | 2,626                              | 192,538                                  | -                                 | 192,538                                  |      |
| TCC Information Systems Corporation    | Beneficiary certificates<br>Yuanta De- Bao Money Market Fund<br>Fuh Hwa You Li Money Market   | -<br>-                                | FVTPL - current<br>FVTPL - current  | 2,575<br>2,288                     | 30,897<br>30,787                         |                                   | 30,897<br>30,787                         |      |
| Taiwan Prosperity Chemical Corporation | Ordinary shares Taishin Financial Holding Co., Ltd.   | -                                     | FVTOCI - current  | 76,863                             | 1,003,067                                | -                                 | 1,003,067                                |      |
| Hoping Industrial Port Corporation     | Shares<br>Chinatrust Investment Co., Ltd.   | The Corporation serves as director    | FVTOCI - non-current  | 10,444                             | 343,807                                  | 3.3                               | 343,807                                  |      |
| E.G.C. Cement Corporation              | Beneficiary certificates Nomura Global Short Duration Bond Fund Nomura Taiwan Money Market UPAMC James Bond Money Market Fund Tai Shin 1699 Money Market Fund | -                                     | FVTPL - current FVTPL - current FVTPL - current FVTPL - current                                     | 2,367<br>2,467<br>1,205<br>742     | 24,095<br>40,201<br>20,107<br>10,026     | -<br>-<br>-                       | 24,095<br>40,201<br>20,107<br>10,026     |      |
|  | Shares Der Pao Construction Co., Ltd.   | -                                     | FVTPL - current   | 30                                 | -  | 0.1                               | -  |      |
| Union Cement Traders Inc.              | Shares Taishin Financial Holding Co., Ltd. CTCI Corporation Chia Hsin Cement Corporation Videoland Inc.   | Director of parent company            | FVTOCI - current FVTOCI - current FVTOCI - current FVTOCI - non-current                             | 27,012<br>13,365<br>7,441<br>6,437 | 352,506<br>593,420<br>101,197<br>368,223 | -<br>-<br>-<br>5.6                | 352,506<br>593,420<br>101,197<br>368,223 |      |
| TCCI (Group)                           | Beneficiary certificates Mega Diamond Money Market Fund   | -                                     | FVTPL - current   | 3,130                              | 39,955                                   | -                                 | 39,955                                   |      |
|  | Shares Anhui Conch Cement Co., Ltd. Yargoon Co., Ltd.   | -                                     | Financial assets measured at FVTOCI - non-current Financial assets measured at FVTOCI - non-current | 116,568<br>19                      | 17,368,399                               | 12.5                              | 17,368,399                               |      |

Note 1: Marketable securities in the table refer to shares, bonds, beneficiary certificates and other related securities within the scope of IAS 9 "Financial Instruments".

(Concluded)

Note 2: See Tables 8 and 9 for information of investments in subsidiaries, associates and joint ventures.

MARKETABLE SECURITIES ACQUIRED AND DISPOSED OF AT COSTS OR PRICES OF AT LEAST NT\$300 MILLION OR 20% OF THE SHARE CAPITAL FOR THE YEAR ENDED DECEMBER 31, 2018

(In Thousands of New Taiwan Dollars)

|                 | Type and Name of                                       |  |              |              | Beginning                      | g Balance  | Acqu                           | sition     |                                | Disp    | osal               |                                      | Other                  | Ending                         | Balance    |
|-----------------|--|--|--------------|--------------|--------------------------------|------------|--------------------------------|------------|--------------------------------|---------|--------------------|--------------------------------------|------------------------|--------------------------------|------------|
| Company<br>Name | Marketable<br>Securities                               | Financial Statement<br>Account                                   | Counterparty | Relationship | Shares/Units<br>(In Thousands) | Amount     | Shares/Units<br>(In Thousands) | Amount     | Shares/Units<br>(In Thousands) | Amount  | Carrying<br>Amount | Gain/Loss on<br>Disposal<br>(Note 4) | Adjustment<br>(Note 1) | Shares/Units<br>(In Thousands) | Amount     |
| Taiwan Cement   | Channe   |  |              |              |                                |            |                                |            |                                |         |                    |                                      |                        |                                |            |
| Corporation     |  | Investments accounted<br>for using the equity<br>method (Note 3) | -            | Associates   | 983                            | \$ 1,670   | 47,535                         | \$ 475,352 | 391<br>(Note 2)                | \$ -    | \$ -               | \$ -                                 | \$ 46,175              | 48,127                         | \$ 523,197 |
|                 | Taiwan Prosperity<br>Chemical<br>Corporation           | Investments accounted for using the equity method                | -            | Subsidiaries | 145,988                        | 1,608,901  | -                              | -          | 29,197                         | 787,369 | 321,659            | 465,710                              | 126,067                | 116,791                        | 1,413,309  |
|                 | TCC Green Energy<br>Corporation                        | Investments accounted for using the equity method                | -            | Subsidiaries | 10,000                         | 179,619    | 140,899                        | 1,400,000  | -                              | -       | -                  | -                                    | (50,286)               | 150,899                        | 1,529,333  |
|                 | International CSRC<br>Investment<br>Holdings Co., Ltd. | Investments accounted<br>for using the equity<br>method (Note 3) | -            | Associates   | 55,180                         | 2,419,650  | 80,640                         | 2,854,637  | -                              | -       | -                  | -                                    | (234,001)              | 135,820                        | 5,040,286  |
|                 | TCCI   | Investments accounted for using the equity method                | -            | Subsidiaries | 600,876                        | 60,108,134 | 500,000                        | 15,430,125 | -                              | -       | -                  | -                                    | 10,329,268             | 1,100,876                      | 85,867,527 |
|                 | TCCIH  | Investments accounted for using the equity method                | -            | Subsidiaries | 1,319,841                      | 19,054,259 | 1,261,991                      | 21,576,350 | -                              | -       | -                  | -                                    | 3,536,583              | 2,581,832                      | 44,167,192 |
|                 | CCC USA Corp.  | Investments accounted for using the equity method                | -            | Associates   | 39                             | 694,072    | 40                             | 802,438    | -                              | -       | -                  | -                                    | 128,934                | 79                             | 1,625,444  |
|                 | Taiwan Cement<br>Dutch                                 | Investments accounted for using the equity method                | -            | Subsidiaries | -                              | -          | 831                            | 29,470,972 | -                              | -       | -                  | -                                    | 509                    | 831                            | 29,471,481 |

Note 1: Including share of profit or loss of subsidiaries, equity adjustments, etc.

Note 2: The shares of capital reduction handled by E-ONE Moli Energy Corporation.

Note 3: The original investments previously recognized as financial assets at FVTOCI, refer to Note 8 for information related to acquiring shares of E-ONE Moli Energy Corporation and International CSRC Investment Holdings Co., Ltd.

Note 4: The capital surplus recorded is the difference between the purchase price and the carrying amount on the date on which the subsidiaries are acquired or disposed of.

ACQUISITION OF INDIVIDUAL REAL ESTATE AT COSTS OF AT LEAST NT\$300 MILLION OR 20% OF THE PAID-IN CAPITAL FOR THE YEAR ENDED DECEMBER 31, 2018

(In Thousands of New Taiwan Dollars)

| Buver                        | Property   | Event Date | Transaction | Payment Status                      | Counterparty   | Relationship             | Information on Pro | evious Title Trans | fer If Counterparty l | s A Related Part | Duising Defenence  | Purpose of                | Other Terms |
|------------------------------|--|------------|-------------|-------------------------------------|--|--------------------------|--------------------|--------------------|-----------------------|------------------|--|---------------------------|-------------|
| Buyer                        | Froperty   | Event Date | Amount      | rayment status                      | Counterparty   | Keiationsnip             | Property Owner     | Relationship       | Transaction Date      | Amount           | Fricing Reference  | Acquisition               | Other Terms |
| Taiwan Cement<br>Corporation | Ready mixed concrete plant<br>and it land in Hsinchu | 2018.12.14 | \$ 541,621  | By negotiation and paid in progress | Land: Individual Plant construction: Jia-Yu Industrial Corporation Limited, Liang-Bang Construction Material Corporation | Nethier of related-party | -                  | -                  | -                     | s -              | Negotiate<br>according to the<br>appraised result<br>made by<br>Visionary Real<br>Estate Appraiser<br>Office | Expand operating position | None        |

# TOTAL PURCHASES FROM OR SALES TO RELATED PARTIES AMOUNTING TO AT LEAST NT\$100 MILLION OR 20% OF THE SHARE CAPITAL FOR THE YEAR ENDED DECEMBER 31, 2018 (In Thousands of New Taiwan Dollars)

| Buyer  | Related Party                                | Relationship                       |                 | Transac      | ction Details |  | Abnormal   | Transaction   | Notes/Accounts (Payable) |                      | Note |
|--|--|------------------------------------|-----------------|--------------|---------------|--|------------|---------------|--------------------------|----------------------|------|
| Buyer  | Related Farty                                | Keiationsinp                       | Purchases/Sales | Amount       | % of Total    | Payment Terms                              | Unit Price | Payment Terms | Ending Balance           | % of Total<br>(Note) | Note |
| Taiwan Cement Corporation                    | Chia Hsin Cement Corporation                 | Director of the Corporation        | Sales           | \$ (429,044) | (3)           | 65 days after the day delivery was made    | \$ -       | -             | \$ 112,833               | 24                   |      |
|  | HKCCL  | Subsidiary                         | Sales           | (157,211)    | (1)           | 65 days after the day shipment was made    | -          | -             | 21,744                   | 5                    |      |
|  | Feng Shang Enterprise<br>Company Limited     | Subsidiary                         | Sales           | (353,749)    | (2)           | 30 days                                    | -          | -             | 96,635                   | 20                   |      |
|  |  |                                    | Purchases       | 296,517      | 2             | 30 days                                    | -          | -             | (22,564)                 | (3)                  |      |
|  | TCCIH  | Subsidiary                         | Service revenue | (505,401)    | (3)           | By contract                                | -          | -             | 41,849                   | 9                    |      |
|  | Taiwan Transport & Storage<br>Corporation    | Subsidiary                         | Purchases       | 525,587      | 3             | 30 days                                    | -          | -             | (106,040)                | (12)                 |      |
|  | China Hi-Ment Corporation                    | The Corporation serves as director | Purchases       | 523,764      | 3             | 60 days                                    | -          | -             | (164,614)                | (19)                 |      |
|  |  |                                    | Sales           | (137,273)    | (1)           | 60 days                                    | -          | -             | 32,481                   | 7                    |      |
|  | Hoping Industrial Port<br>Corporation        | Subsidiary                         | Purchases       | 447,052      | 3             | 20 days                                    | -          | -             | (8,299)                  | (1)                  |      |
|  | Ta-Ho Maritime Corporation                   | Subsidiary                         | Purchases       | 1,042,947    | 7             | 30 days                                    | -          | -             | (372,490)                | (42)                 |      |
|  | Kuan-Ho Refractories Industry<br>Corporation | Subsidiary                         | Purchases       | 231,370      | 1             | By contract                                | -          | -             | (111,417)                | (13)                 |      |
|  | E.G.C. Cement Corporation                    | Subsidiary                         | Sales           | (401,471)    | (2)           | 50 days after the day delivery was made    | -          | -             | 106,653                  | 23                   |      |
|  | Jin Chang Minerals Corporation               | Subsidiary                         | Purchases       | 589,037      | 4             | 30 days                                    | -          | -             | (147,517)                | (17)                 |      |
|  | Ho Sheng Mining Co., Ltd.                    | Subsidiary                         | Purchases       | 407,375      | 3             | 30 days                                    | -          | -             | (32,292)                 | (4)                  |      |
| Jin Chang Minerals<br>Corporation            | Taiwan Cement Corporation                    | Parent company                     | Sales           | (589,037)    | (100)         | 30 days                                    | -          | -             | 147,517                  | 100                  |      |
| Ho Sheng Mining Co., Ltd.                    | Taiwan Cement Corporation                    | Parent company                     | Sales           | (407,375)    | (87)          | 30 days                                    | -          | -             | 32,292                   | 72                   |      |
| Kuan-Ho Refractories Industry<br>Corporation | Taiwan Cement Corporation                    | Parent company                     | Sales           | (231,370)    | (17)          | By contract                                | -          | -             | 111,417                  | 89                   |      |
| E.G.C. Cement Corporation                    | Taiwan Cement Corporation                    | Parent company                     | Purchases       | 401,471      | 100           | 50 days after the day<br>delivery was made | -          | -             | (106,653)                | (99)                 |      |

| Durron                                    | Deleted Deuty                                       | Deletionship                     |                 | Transa       | ction Details |   | Abnormal   | Transaction   | Notes/Accounts (Payable) | Receivable           | Note |
|---|---|----------------------------------|-----------------|--------------|---------------|---|------------|---------------|--------------------------|----------------------|------|
| Buyer                                     | Related Party                                       | Relationship                     | Purchases/Sales | Amount       | % of Total    | Payment Terms                           | Unit Price | Payment Terms | Ending Balance           | % of Total<br>(Note) | Note |
| Ho-Ping Power Company                     | Hoping Industrial Port<br>Corporation               | The same parent company          | Purchases       | \$ 1,083,627 | 12            | 20 days                                 | \$ -       | -             | \$ (56,617)              | (26)                 |      |
|   | HPC Power Service<br>Corporation                    | The same parent company          | Purchases       | 417,256      | 5             | By contract                             | -          | -             | (112,126)                | (52)                 |      |
| Hoping Industrial Port                    |   | The same parent company          | Sales           | (1,083,627)  | (70)          | 20 days                                 | -          | -             | 56,617                   | 63                   |      |
| Corporation                               |   | Parent company                   | Sales           | (447,052)    |               | 20 days                                 | -          | -             | 8,299                    | 9                    |      |
|   | Taiwan Transport & Storage<br>Corporation           | The same parent company          | Purchases       | 190,256      | 79            | 30 days                                 | -          | -             | (16,333)                 | (84)                 |      |
| Feng Shang Enterprise                     | Taiwan Cement Corporation                           | Parent company                   | Sales           | (296,517)    | (13)          | 30 days                                 | _          | _             | 22,564                   | 100                  | 1    |
| Company Limited                           | Tarwan cement corporation                           | arent company                    | Purchases       | 353,749      | 16            | 30 days                                 | _          | _             | (96,635)                 | (100)                | 1    |
|   |   |                                  |                 |              |               |   | _          |               | (,,,,,,,                 | (===)                | 1    |
| Taiwan Transport & Storage                | Taiwan Cement Corporation                           | Parent company                   | Sales           | (525,587)    | (42)          | 30 days                                 | -          | -             | 106,040                  | 62                   | 1    |
| Corporation                               | Corporation   | The same parent company          | Sales           | (199,170)    | (16)          | By contract                             | -          | -             | 32,623                   | 19                   |      |
|   | Hoping Industrial Port<br>Corporation               | The same parent company          | Sales           | (190,256)    | (15)          | 30 days                                 | -          | -             | 16,333                   | 10                   |      |
|   | International CSRC Investment<br>Holdings Co., Ltd. | The same chairman                | Sales           | (85,651)     | (7)           | 30 days                                 |            | -             | -                        | -                    |      |
| Taiwan Prosperity Chemical<br>Corporation | Taiwan Transport & Storage<br>Corporation           | The same parent company          | Purchases       | 199,170      | 1             | By contract                             | -          | -             | (32,623)                 | (29)                 |      |
| HPC Power Service<br>Corporation          | Ho-Ping Power Company                               | The same parent company          | Sales           | (417,256)    | (100)         | By contract                             | -          | -             | 112,126                  | 100                  |      |
| Ta-Ho Maritime Corporation                | Taiwan Cement Corporation                           | Parent company                   | Freight revenue | (1,042,947)  | (35)          | 30 days                                 | _          | _             | 372,490                  | 100                  | 1    |
| Ta Tio Martine Corporation                |   | Subsidiary                       | Rental expense  | 228,345      | 9             | By negotiation                          | _          | _             | (45,842)                 | (57)                 | 1    |
|   |   | ,                                | 1               | -,-          | -             | ,                                       |            |               | ( - / - /                | ( /                  | 1    |
| THC International S.A                     | Ta-Ho Maritime Corporation                          | Parent company                   | Rental revenue  | (228,345)    | (100)         | By negotiation                          | -          | -             | 45,842                   | 100                  |      |
| HKCCL                                     | Quon Hing Concrete. Ltd.                            | Associates                       | Sales           | (199,579)    | (37)          | By negotiation                          | _          | -             | 34,651                   | 43                   | 1    |
|   | Taiwan Cement Corporation                           | Parent company                   | Purchases       | 157,211      | 37            | 65 days after the day shipment was made | -          | -             | (21,744)                 | (59)                 |      |
| TCC (Guigang) Cement Ltd.                 | Guigang Da-Ho Shipping<br>Co., Ltd.                 | The same ultimate parent company | Purchases       | 305,348      | 4             | By negotiation                          | -          | -             | (51,517)                 | (17)                 |      |
|   | Da Tong (Guigang) International Logistics Co., Ltd. | The same ultimate parent company | Purchases       | 353,012      | 4             | By negotiation                          | -          | -             | (86,978)                 | (29)                 |      |
| TCC Yingde Cement Co., Ltd.               | Guigang Da-Ho Shipping<br>Co., Ltd.                 | The same ultimate parent company | Purchases       | 252,008      | 3             | By negotiation                          | -          | -             | (57,548)                 | (19)                 |      |

| Duran   | Related Party                              | Relationship                     |                 | Transac      | tion Details | 3              | Abnormal ' | Fransaction   | Notes/Accounts l<br>(Payable) | Receivable Note      |
|---|--|----------------------------------|-----------------|--------------|--------------|----------------|------------|---------------|-------------------------------|----------------------|
| Buyer   |  |                                  | Purchases/Sales | Amount       | % of Total   | Payment Terms  | Unit Price | Payment Terms | Ending Balance                | % of Total<br>(Note) |
| Da Tong (Guigang) International Logistics Co., Ltd. | TCC (Guigang) Cement<br>Limited            | The same ultimate parent company | Freight revenue | \$ (353,012) | (94)         | By negotiation | \$ -       | -             | \$ 86,978                     | 100                  |
| Guigang Da-Ho Shipping<br>Co., Ltd.                 | TCC (Guigang) Cement Ltd.                  | The same ultimate parent company | Freight revenue | (305,348)    | (30)         | By negotiation | -          | -             | 51,517                        | 44                   |
| Co., Ed.  | TCC Yingde Cement Co., Ltd.                |                                  | Freight revenue | (252,008)    | (25)         | By negotiation | -          | -             | 57,548                        | 49                   |
| TCCIH   | Taiwan Cement Corporation                  | Parent company                   | Service expense | 505,401      | 100          | By contract    | -          | -             | (41,849)                      | (100)                |
| Yingde Dragon Mountain<br>Cement Co., Ltd.          | Prosperity Conch Cement<br>Company Limited | Associates                       | Purchases       | 128,951      | 3            | By negotiation | -          | -             | (10,590)                      | (5)                  |

Note: The percentage to total accounts receivable from (payable to) related parties.

(Concluded)

# RECEIVABLES FROM RELATED PARTIES AMOUNTING TO AT LEAST NT\$100 MILLION OR 20% OF THE SHARE CAPITAL DECEMBER 31, 2018 (In Thousands of New Taiwan Dollars)

|   |                              |   |                |                      | ı      | Overdue                  | Amount                              | Allowance for      |
|---|------------------------------|---|----------------|----------------------|--------|--------------------------|-------------------------------------|--------------------|
| Company Name                              | Related Party                | Relationship                                | Ending Balance | Turnover<br>Rate (%) | Amount | Action Taken             | Received<br>in Subsequent<br>Period | Impairment<br>Loss |
| Ta-Ho Maritime Corporation                | Taiwan Cement Corporation    | Parent company                              | \$ 372,490     | 3.9                  | \$ -   | -                        | \$ 266,949                          | \$ -               |
| Jin Chang Minerals Corporation            | Taiwan Cement Corporation    | Parent company                              | 147,517        | 4.3                  | -      | -                        | 137,476                             | -                  |
| Taiwan Cement Corporation                 | Chia Hsin Cement Corporation | Substantial relationship between management | 112,833        | 1.3                  | -      | -                        | 122,833                             | -                  |
| HPC Power Service Corporation             | Ho-Ping Power Company        | The same parent company                     | 112,126        | 3.8                  | -      | -                        | 112,126                             | -                  |
| Kuan-Ho Refractories Industry Corporation | Taiwan Cement Corporation    | Parent company                              | 111,417        | 1.9                  | 20,726 | Expect withdraw in April | 55,986                              | -                  |
| Taiwan Cement Corporation                 | E.G.C. Cement Corporation    | Parent company                              | 106,653        | 4.2                  | -      | -                        | 106,653                             | -                  |
| Taiwan Transport & Storage Corporation    | Taiwan Cement Corporation    | Parent company                              | 106,040        | 5.4                  | -      | -                        | 61,847                              | -                  |

INFORMATION ON INVESTEES FOR THE YEAR ENDED DECEMBER 31, 2018 (In Thousands of New Taiwan Dollars)

|                            |   |                        |   | Original Inves | stment Amount | As of          | December 31, | 2018          | Net Income    | CI CD C4        |      |
|----------------------------|---|------------------------|---|----------------|---------------|----------------|--------------|---------------|---------------|-----------------|------|
| Investor Company           | Investee Company                            | Location               | Main Businesses and Products                      | December 31,   | December 31,  | Shares/Units   | ~            | Carrying      | (Loss) of the | Share of Profit | Note |
|                            | • •   |                        |   | 2018           | 2017          | (In Thousands) | %            | Amount        | Investee      | (Loss)          |      |
|                            |   |                        |   |                |               |                |              |               |               |                 |      |
| Taiwan Cement Corporation  | TCCI  | British Virgin Islands | Investment holding                                | \$ 33,774,761  | \$ 18,344,635 | 1,100,876      | 100.00       | \$ 85,867,527 | \$ 12,153,185 | \$ 12,153,185   |      |
|                            | Ho-Ping Power Company                       | Taiwan                 | Thermal power generation                          | 6,037,720      | 6,037,720     | 805,940        | 59.50        | 17,059,967    | 2,390,778     | 1,422,513       |      |
|                            | Hoping Industrial Port Corporation          | Taiwan                 | Hoping Industrial Port management                 | 3,198,500      | 3,198,500     | 319,990        | 100.00       | 5,658,439     | 740,169       | 740,147         |      |
|                            | Ta-Ho Maritime Corporation                  | Taiwan                 | Marine transportation                             | 528,506        | 528,506       | 118,649        | 64.79        | 2,296,422     | 336,164       | 217,792         |      |
|                            | Taiwan Prosperity Chemical Corporation      | Taiwan                 | Processing and sale of chemical material          | 992,173        | 1,284,143     | 116,791        | 40.00        | 1,413,309     | 332,064       | 153,298         |      |
|                            | Taiwan Transport & Storage Corporation      | Taiwan                 | Warehousing, transportation and sale of sand and  | 90,862         | 90,862        | 32,668         | 83.85        | 1,815,949     | 161,612       | 135,505         |      |
|                            |   |                        | gravel  |                |               |                |              |               |               |                 |      |
|                            | TCC Investment Corporation                  | Taiwan                 | Investment  | 190,000        | 190,000       | 63,150         | 100.00       | 3,099,705     | 207,697       | 207,697         |      |
|                            | Ho Sheng Mining Co., Ltd.                   | Taiwan                 | Mining and trading                                | 1,414,358      | 1,414,358     | 30,100         | 100.00       | 1,069,417     | 55,392        | 55,392          |      |
|                            | CCC USA Corp.                               | U.S.A.                 | Rubber raw materials                              | 1,284,421      | 481,983       | 79             | 33.33        | 1,625,444     | 310,116       | 103,372         |      |
|                            | Taiwan Cement Engineering Corporation       | Taiwan                 | Engineering services                              | 319,439        | 319,439       | 59,593         | 99.05        | 710,129       | 11,506        | 12,778          |      |
|                            | Kuan-Ho Construction & Development          | Taiwan                 | Construction and lease services                   | -              | 248,963       | -              | -            | -             | -             | -               |      |
|                            | Corporation                                 |                        |   |                |               |                |              |               |               |                 |      |
|                            | ONYX Ta-Ho Environmental Services Co., Ltd. | Taiwan                 | Waste collection and treatment                    | 72,000         | 72,000        | 30,176         | 50.00        | 786,226       | 658,855       | 329,427         |      |
|                            | Kuan-Ho Refractories Industry Corporation   | Taiwan                 | Production and sale of refractory materials       | 181,050        | 181,050       | 18,105         | 95.29        | 453,906       | 123,697       | 117,870         |      |
|                            | Feng Sheng Enterprise Company Limited       | Taiwan                 | Sale of ready-mixed concrete                      | 250,000        | 250,000       | 27,261         | 45.43        | 348,471       | 36,546        | 16,604          |      |
|                            | TCC Chemical Corporation                    | Taiwan                 | Leasing property and energy technology services   | 1,510,842      | 1,510,842     | 240,000        | 100.00       | 942,433       | 41,272        | 75,555          |      |
|                            | Ta-Ho Taitung Environment Co., Ltd.         | Taiwan                 | Waste collection and treatment                    | 313,187        | 313,187       | 37,100         | 100.00       | 297,188       | 859           | 859             |      |
|                            | TCC Information Systems Corporation         | Taiwan                 | Information software design                       | 71,000         | 71,000        | 14,904         | 99.36        | 251,946       | 9,042         | 8,985           |      |
|                            | Ta-Ho RSEA Environment Co., Ltd.            | Taiwan                 | Waste collection and treatment                    | 666,000        | 666,000       | 66,600         | 66.60        | 200,431       | (10,004)      | (6,663)         |      |
|                            | HKCMCL                                      | Hong Kong              | Investment holding                                | 72,005         | 72,005        | 38             | 84.65        | 323,022       | 42,622        | 36,081          |      |
|                            | TCC Green Energy Corporation                | Taiwan                 | Renewable energy generation                       | 1,446,046      | 46,046        | 150,899        | 100.00       | 1,529,333     | (50,286)      | (50,286)        |      |
|                            | Jin Chang Minerals Corporation              | Taiwan                 | Afforestation and sale of limestone               | 18.042         | 18,042        | 1,800          | 100.00       | 220,012       | 90,475        | 90.475          |      |
|                            | HPC Power Service Corporation               | Taiwan                 | Business consulting                               | 1,861          | 1,861         | 6              | 60.00        | 114,457       | 185,738       | 111,443         |      |
|                            | E.G.C. Cement Corporation                   | Taiwan                 | Sale of cement                                    | 184,359        | 184,359       | 8.063          | 50.64        | 103,579       | 10,872        | 5,506           |      |
|                            | Synpac Ltd.                                 | British Virgin Islands |   | 70,367         | 70,367        | 2,700          | 25.00        | 6,991         | 311           | 78              |      |
|                            | Tung Chen Mineral Corporation               | Taiwan                 | Afforestation and sale of limestone               | 1,989          | 1,989         | 20             | 99.45        | 1,352         | (42)          | (42)            |      |
|                            | TMC   | Philippines            | Mining excavation                                 | 11,880         | 11,880        | 120            | 72.70        | - 1,552       | (.2)          | (.2)            |      |
|                            | TPMC  | Philippines            | Mining excavation                                 | 2,105          | 2,105         | 20             | 40.00        | _             | _             | _               |      |
|                            | TCCIH                                       | Cayman Islands         | Investment holding                                | 40,701,671     | 19,125,321    | 2,581,832      | 38.28        | 44,167,192    | 18,488,071    | 5,090,948       |      |
|                            | E-ONE Moli Energy Corporation               | Taiwan                 | Manufacture and sale of lithium battery           | 481,811        | 10,728        | 48,127         | 15.97        | 523,197       | 325,906       | 51,909          |      |
|                            | International CSRC Investment Holdings Co., | Taiwan                 | Investment  | 3,563,397      | 708,760       | 135,820        | 15.59        | 5,040,286     | 2,994,196     | 56,168          |      |
|                            | Ltd.  | Tarwan                 | m vestment  | 3,303,371      | 700,700       | 133,020        | 13.57        | 3,040,200     | 2,774,170     | 30,100          |      |
|                            | Taiwan Cement Dutch                         | Netherlands            | Investment holding                                | 29,470,972     | _             | 831            | 100.00       | 29,471,481    | (2,754)       | (2,754)         |      |
|                            | Tarwan Conone Baten                         | retheriands            | mvestment notating                                | 25,470,572     |               | 031            | 100.00       | 25,471,401    | (2,734)       | (2,754)         |      |
| Taiwan Transport & Storage | Ta-Ho Maritime Corporation                  | Taiwan                 | Marine transportation                             | 300,507        | 247,229       | 53,438         | 29.18        | 1,034,271     | 336,164       | 98,664          |      |
| Corporation                | E.G.C. Cement Corporation                   | Taiwan                 | Sale of cement                                    | 136,476        | 126,518       | 7,857          | 49.36        | 130,324       | 10,872        | 4,993           |      |
| Corporation                | Chia Huan Tung Cement Corporation           | Taiwan                 | Manufacturing and sale of cement-related products | 87,463         | 97,181        | 8,746          | 12.74        | 16,855        | (62,793)      | (8,001)         |      |
|                            | Ho Swen Construction Material Co., Ltd.     | Taiwan                 | Sand and gravel filtering and sale                | 10,200         | 10,200        | 1.020          | 51.00        |               | (101)         | (52)            |      |
|                            | 110 Swell Constitueiton Material Co., Etd.  | Taiwan                 | Sand and graver intering and saic                 | 10,200         | 10,200        | 1,020          | 31.00        | _             | (101)         | (32)            |      |
| TCC Investment Corporation | Union Cement Traders Inc.                   | Taiwan                 | Import and export trading                         | 219,450        | 219.450       | 21,945         | 100.00       | 938,965       | 85,616        | 85,616          |      |
| 200 myounent corporation   | Ho-Ping Power Company                       | Taiwan                 | Thermal power generation                          | 68,911         | 68,911        | 5.067          | 0.50         | 139,894       | 2,390,778     | 11,954          |      |
|                            | Taiwan Prosperity Chemical Corporation      | Taiwan                 | Processing and sale of chemical material          | 10.528         | 11,168        | 658            | 0.30         | 7.963         | 332,064       | 752             |      |
|                            | Ta-Ho Maritime Corporation                  | Taiwan                 | Marine transportation                             | 343            | 343           | 34             | 0.23         | 664           | 336,164       | 63              |      |
|                            | E-ONE Moli Energy Corporation               | Taiwan                 | Manufacture and sale of lithium battery           | 172,648        | 145.253       | 18.068         | 6.00         | 48,180        | 325,906       | 19,488          |      |
|                            | International CSRC Investment Holdings Co., | Taiwan                 | Investment  | 387,920        | 260,552       | 19,461         | 2.23         | 716,260       | 2,994,196     | 8,048           |      |
|                            | Ltd.  | 1 ai Wall              | mvesunent   | 301,920        | 200,332       | 19,401         | 2.23         | /10,200       | 2,994,190     | 0,048           |      |
|                            | Liu.  |                        |   |                |               |                |              |               |               |                 |      |
| Î.                         |   | I .                    |   | 1              | 1             |                |              |               |               |                 | 1    |

|  |  |                     |   | Original Inves       | tment Amount         | As of                          | December 31,     | 2018               | Net Income                | Share of Profit |      |
|--|--|---------------------|---|----------------------|----------------------|--------------------------------|------------------|--------------------|---------------------------|-----------------|------|
| Investor Company                         | Investee Company   | Location            | Main Businesses and Products                            | December 31,<br>2018 | December 31,<br>2017 | Shares/Units<br>(In Thousands) | %                | Carrying<br>Amount | (Loss) of the<br>Investee | (Loss)          | Note |
| Ta-Ho Maritime Corporation               | Ta-Ho Maritime Holdings Ltd.                               | Samoa               | Investment  | \$ 325,995           | \$ 325,995           | 10,300                         | 100.00           | \$ 4.199.003       | \$ 188,957                | \$ 188.957      |      |
|  | Shih Hsin Storage & Transportation Co., Ltd.               | Taiwan              | Warehousing, transportation and sale of cement          | 30,952               | 30,952               | 3,114                          | 3.34             | 8,196              | (88,106)                  | (2,942)         |      |
|  | Chia Huan Tung Cement Corporation                          | Taiwan              | Manufacturing and sale of cement-related products       | 7,943                | 8,825                | 794                            | 1.16             | 1,534              | (62,793)                  | (731)           |      |
| Taiwan Cement Engineering<br>Corporation | TCEC Corporation   | Brunei Darussalam   | Investment  | -                    | 16,295               | -                              | -                | -                  | 94                        | 94              |      |
| TCC Information Systems                  | Taicem Information (Samoa) Pte., Ltd.                      | Samoa               | Investment  | 3.042                | 3.042                | 2,128                          | 100.00           | 49.070             | 2,388                     | 2.388           |      |
| Corporation                              | International CSRC Investment Holdings Co.,<br>Ltd.        | Taiwan              | Investment  | 49,882               | 37,968               | 1,819                          | 0.21             | 66,949             | 2,994,196                 | 752             |      |
| Hoping Industrial Port Corporation       | Taiwan Prosperity Chemical Corporation                     | Taiwan              | Processing and sale of chemical material                | 104,929              | 104,929              | 6,675                          | 2.29             | 80,775             | 332,064                   | 7,591           |      |
|  | E-ONE Moli Energy Corporation                              | Taiwan              | Manufacture and sale of lithium battery                 | 60,862               | 49,142               | 6,633                          | 2.20             | 17,687             | 325,906                   | 7,154           |      |
| E.G.C. Cement Corporation                | Shih Hsin Storage & Transportation Co., Ltd.               | Taiwan              | Warehousing, transportation and sale of cement          | 110,128              | 110,128              | 11,082                         | 11.87            | 29,126             | (88,106)                  | (10,458)        |      |
| Feng Sheng Enterprise Company<br>Limited | Ho Swen Construction Material Co., Ltd.                    | Taiwan              | Sand and gravel filtering and sale                      | -                    | 1,800                | -                              | -                | -                  | -                         | -               |      |
| Union Cement Traders Inc.                | Shih Hsin Storage & Transportation Co., Ltd.               | Taiwan              | Warehousing, transportation and sale of cement          | 34,203               | 34,203               | 3,442                          | 3.69             | 9,047              | (88,106)                  | (3,249)         |      |
|  | Taiwan Transport & Storage Corporation                     | Taiwan              | Warehousing, transportation and sale of sand and gravel | 2,612                | 2,612                | 261                            | 0.67             | 14,523             | 161,612                   | 1,084           |      |
|  | Chia Huan Tung Cement Corporation                          | Taiwan              | Manufacturing and sale of cement-related products       | 2,552                | 2,835                | 255                            | 0.37             | 492                | (62,793)                  | (233)           |      |
|  | E-ONE Moli Energy Corporation                              | Taiwan              | Manufacture and sale of lithium battery                 | 161,605              | 132,049              | 17,412                         | 5.78             | 46,431             | 325,906                   | 18,780          |      |
|  | International CSRC Investment Holdings Co.,<br>Ltd.        | Taiwan              | Investment  | 281,806              | 215,360              | 10,145                         | 1.16             | 373,381            | 2,994,196                 | 4,195           |      |
| Ho-Ping Power Company                    | Ho-Ping Renewable Energy Company                           | Taiwan              | Renewable energy generation                             | 1,000                | -                    | 100                            | 100.00           | 1,000              | -                         | -               |      |
| TCC Green Energy Corporation             | TCC Chia-Chien Green Energy Corporation                    | Taiwan              | Renewable energy generation                             | 202,000              | -                    | 20,200                         | 100.00           | 174,017            | (28,183)                  | (28,183)        |      |
|  | TCC Yun-Kai Green Energy Corporation                       | Taiwan              | Renewable energy generation                             | 25,000               | -                    | 2,500                          | 100.00           | 22,912             | (2,118)                   | (2,118)         |      |
|  | TCC Lien-Hsin Green Energy Corporation                     | Taiwan              | Renewable energy generation                             | 12,000               | -                    | 1,200                          | 100.00           | 11,402             | (2,633)                   | (2,633)         |      |
|  | TCC Chang-Ho Green Energy Corporation                      | Taiwan              | Renewable energy generation                             | 5,000                | -                    | 500                            | 100.00           | 2,983              | (2,512)                   | (2,512)         |      |
|  | TCC Kao-Cheng Green Energy Corporation                     | Taiwan              | Renewable energy generation                             | 12,000               | -                    | 1,200                          | 100.00           | 11,981             | (2,054)                   | (2,054)         |      |
|  | TCC Nan-chung Green Energy Corporation                     | Taiwan              | Renewable energy generation                             | 20,000               | -                    | 2,000                          | 100.00           | 17,983             | (2,047)                   | (2,047)         |      |
| To He Maritime Heldings Ltd              | Chang-Wang Wind Power Co., Ltd.                            | Taiwan              | Renewable energy generation                             | 120,000              | -<br>- 50 010        | 12,000                         | 100.00           | 150,011            | (330)                     | (330)           |      |
| Ta-Ho Maritime Holdings Ltd.             | THC International S.A.                                     | Panama              | Marine transportation                                   | 61,737               | 59,818               | 2 2                            | 100.00           | 2,638,664          | 98,316                    | 98,316          |      |
|  | Sheng Ho Maritime S.A.                                     | Panama              | Marine transportation                                   | 61,737               | 59,818               |                                | 100.00           | 465,117            | (8,743)                   | (8,743)         |      |
|  | Ta-Ho Maritime (Hong Kong) Limited<br>Chi Ho Maritime S.A. | Hong Kong<br>Panama | Marine transportation Marine transportation             | 156,647<br>199,955   | 151,776<br>193,738   | 5,100<br>7                     | 100.00<br>100.00 | 653,369<br>356,448 | 94,366<br>4,372           | 94,366<br>4,372 |      |
|  | Ta-Ho Maritime (Singapore) Pte. Ltd.                       | Singapore           | Marine transportation  Marine transportation            | 3,072                | 2,976                | 100                            | 100.00           | 74,177             | 543                       | 543             |      |
| TCC International Ltd. (Group)           | Ouon Hing Concrete Co., Ltd.                               | Hong Kong           | Investment holding                                      | 174,449              | 169,377              | 100                            | 50.00            | 283,508            | 135,756                   | 67,878          |      |
| TCC international Etu. (Group)           | Chia Huan Tung Cement Corporation                          | Hong Kong<br>Taiwan | Manufacturing and sale of cement-related products       | 148,554              | 148,554              | 14.855                         | 19.48            | 25,765             | (62,793)                  | (12,231)        |      |
|  | Hong Kong Concrete Co., Ltd.                               | Hong Kong           | Cement processing services                              | 26,749               | 25,971               | 129                            | 31.50            | 217,105            | 34,823                    | 10,969          |      |
| Taiwan Cement Dutch                      | Dutch OYAK TCC Holdings B.V.                               | Netherlands         | Holding company   | 29,152,614           | -                    | 100                            | 40.00            | 29,071,244         | (167,984)                 | (67,194)        |      |

(Concluded)

#### INFORMATION ON INVESTMENT IN MAINLAND CHINA FOR THE YEAR ENDED DECEMBER 31, 2018

(In Thousands of New Taiwan Dollars)

A.

|   |  |               |  |  | Investment l | Flow (Note 2) | Accumulated  |   |   |                                       |  |  | 1    |
|---|--|---------------|--|--|--------------|---------------|--|---|---|---------------------------------------|--|--|------|
| Investee Company  | Main Businesses and Products                                       | Share Capital | Method<br>of<br>Investme<br>nt<br>(Note 1) | Accumulated<br>Outward<br>Remittance for<br>Investment from<br>Taiwan as of<br>January 1, 2018<br>(Note 2) | Outflow      | Inflow        | Outward<br>Remittance for<br>Investment from<br>Taiwan as of<br>December 31,<br>2018<br>(Note 2) | Net Income<br>(Loss) of the<br>Investee | % Ownership<br>of Direct or<br>Indirect<br>Investment | Investment Gain<br>(Loss)<br>(Note 3) | Carrying Amoun<br>as of<br>December 31,<br>2018 (Note 3) | Accumulated<br>Repatriation of<br>Investment<br>Income as of<br>December 31,<br>2018 | Note |
| Anhui King Bridge Cement Co., Ltd.                        | Manufacturing and sale of cement                                   | \$ 460,725    | (a)  | \$ 156,647   | s -          | \$ -          | \$ 156,647   | \$ (4,020)                              | 60.00   | \$ (2,412)                            | \$ 228,180   | \$ -   |      |
|   | Manufacturing and sale of cement                                   | 499,119       | (a)  | 282.002  | _            | -             | 282,002  | 30,746                                  | 100.00  | 30,746                                | 912,786  | -  |      |
|   | Port for cement transportation                                     | 153,575       | (a)  | 86,770   | _            | _             | 86,770   | (521)                                   | 100.00  | (521)                                 | 286,187  | _  |      |
|   | Sale of building material  | 414,653       | (a)  | 99,517   | _            | _             | 99,517   | 181,963                                 | 42.00   | 76,425                                | 441,397  | _  |      |
| TCC Yingde Cement Co., Ltd.                               | Manufacturing and sale of cement                                   | 7,813,896     | (a)  | 4.882.487  | _            | _             | 4.882.487  | 3,670,277                               | 100.00  | 3,670,277                             | 21,247,365   | _  |      |
| Jurong TCC Cement Co., Ltd.                               | Manufacturing and sale of cement                                   | 7,156,595     | (a)  | 4,177,086  | _            | _             | 4,177,086  | 1,800,138                               | 100.00  | 1,800,138                             | 12,552,681   | _  |      |
|   | Manufacturing and sale of cement                                   | 10,224,283    | (a)  | 7,313,238  | _            | _             | 7,313,238  | 4,384,063                               | 100.00  | 4,384,063                             | 22,406,521   | _  |      |
| Jiangsu TCC Investment Co., Ltd.                          | Investment   | 1,535,750     | (a)  | 867,699  |              | _             | 867,699  | 403,596                                 | 100.00  | 403,596                               | 2,814,873  |  |      |
|   | Manufacturing and sale of cement                                   | 1,914,508     | (a)<br>(a)                                 | 3,336,666  |              | -             | 3,336,666  | 2,463,483                               | 100.00  | 2,463,483                             | 13,222,157   | -  |      |
|   | Manufacturing and sale of cement                                   | 1,659,112     | (a)<br>(a)                                 | 1,369,321  | -            | -             | 1,369,321  | (92,686)                                | 100.00  | (92,686)                              | 1,682,160  | -  |      |
|   | Manufacturing and sale of cement  Manufacturing and sale of cement | 4,714,445     | (a)<br>(a)                                 | 3,434,735  | -            | -             | 3,434,735  | 1,192,321                               | 100.00  | 1,192,321                             | 7,530,274  | -  |      |
|   | Manufacturing and sale of cement                                   | 3.624.370     |  | 2,620,645  | -            |               | 2,620,645  | 1,662,989                               | 100.00  | 1,662,989                             | 6.857.651  |  |      |
|   | Manufacturing and sale of cement  Manufacturing and sale of cement | 2,364,748     | (a)  | 1,716,826  | -            | -             | 1,716,826  | 946,719                                 | 100.00  | , ,                                   | 3,946,039  | -  |      |
|   |  |               | (a)  | , ,  |              | -             |  |   |   | 946,719                               | 3,946,039  | -  |      |
|   | Manufacturing and sale of cement                                   | 614,300       | (a)  | 347,080  | -            | -             | 347,080  | 17,273                                  | 100.00  | 17,273                                |  | -  |      |
|   | Manufacturing and sale of cement                                   | 623,515       | (a)  | 281,048  | -            | -             | 281,048  | 169,450                                 | 65.00   | 110,143                               | 536,821  | -  |      |
| TCC New (Hangzhou) Management Company                     | Operation management   | 245,720       | (a)  | 138,832  | -            | -             | 138,832  | 26,980                                  | 100.00  | 26,980                                | 201,016  | -  |      |
| Limited   |  | 1.740.560     |  | 1,000,011  |              |               | 1,000,011  | 052 505                                 | 100.00  | 052 505                               | 2.545.452  |  |      |
| Guizhou Kaili Rui An Jian Cai Co., Ltd.                   | Manufacturing and sale of cement                                   | 1,742,562     | (a)  | 1,098,811  | -            | -             | 1,098,811  | 853,585                                 | 100.00  | 853,585                               | 3,747,453  | -  |      |
|   | Manufacturing and sale of cement                                   | 1,228,600     | (a)  | 1,094,990  | -            | -             | 1,094,990  | (19,337)                                | 100.00  | (19,337)                              | 1,159,388  | -  |      |
|   | Manufacturing and sale of cement                                   | 4,247,863     | (a)  | 3,139,325  | -            | -             | 3,139,325  | 907,332                                 | 100.00  | 907,332                               | 3,082,623  | -  |      |
| (Note 4)  | Manufacturing and sale of cement                                   | 415,896       | (a)  | 5,746,822  | -            | -             | 5,746,822  | 738,143                                 | 100.00  | 738,143                               | 2,697,458  | -  |      |
| TCC Jingzhou Cement Company Limited<br>(Note 4)           | Manufacturing and sale of cement                                   | 44,720        | (a)  | -  | -            | -             | -  | 232,419                                 | 100.00  | 232,419                               | 1,334,332  | -  |      |
| TCC Huaihua Concrete Company Limited<br>(Note 4)          | Sale of ready-mixed concrete                                       | 44,720        | (a)  | -  | -            | -             | -  | (17,232 )                               | 100.00  | (17,232)                              | 51,809   | -  |      |
| TCC Jiangsu Mining Industrial Company<br>Limited          | Mining of limestone  | 122,860       | (a)  | 384,149  | -            | -             | 384,149  | (20,188)                                | 100.00  | (20,188)                              | 273,293  | -  |      |
| TCC Yingde Mining Industrial Company<br>Limited           | Mining of limestone  | 353,223       | (a)  | 277,899  | -            | -             | 277,899  | 21,677                                  | 100.00  | 21,677                                | 454,947  | -  |      |
| TCC Guigang Mining Industrial Company<br>Limited          | Mining of limestone  | 153,575       | (a)  | 132,647  | -            | -             | 132,647  | 10,472                                  | 100.00  | 10,472                                | 380,383  | -  |      |
| Scitus Naxi Cement Co., Ltd. (Note 5)                     | Manufacturing and sale of cement                                   | 655,193       | (a)  | -  | -            | -             | -  | 194,076                                 | 100.00  | 194,076                               | 324,632  | -  |      |
|   | Manufacturing and sale of cement                                   | 1,766,440     | (a)  | -  | _            | -             | _  | 520,933                                 | 100.00  | 520,933                               | 2,508,011  | -  |      |
|   | Manufacturing and sale of cement                                   | 103,974       | (a)  | _  | _            | _             | _  | (8,205)                                 | 100.00  | (8,205)                               | 4,279  | _  |      |
| Scitus Luzhou Concrete Co., Ltd. (Note 5)                 | Sale of ready-mixed concrete                                       | 111,800       | (a)  | _  | _            | _             | _  | 9,187                                   | 100.00  | 9,187                                 | 146,173  | _  |      |
| TCEC (Yingde) Machine Co., Ltd. (Note 6)                  | Production and sale of cement machinery                            | 16,295        | (b)  | 16,295   | _            | _             | 16,295   | 60,113                                  | 100.00  | 60,113                                | 154,805  | _  |      |
| Anshun Xin Tai Construction Materials                     | and assembly work<br>Filtering of sand and gravel and sale of      | 67,080        | (a)  | 93,437   | -            | -             | 93,437   | 2,377                                   | 100.00  | 2,377                                 | 66,675   | -  |      |
| Company Limited<br>Fuzhou TCC Information Technology Co., | ready-mixed concrete Software product and equipment                | 3,072         | (a)  | 3,072  | -            | -             | 3,072  | 2,210                                   | 100.00  | 2,210                                 | 42,323   | -  |      |
| Ltd. (Note 6)   | maintenance  |               |  |  |              |               |  |   |   |                                       |  |  |      |
| Da Tong (Guigang) International Logistics                 | Logistics and transportation                                       | 153,575       | (a)  | 153,575  | _            | _             | 153,575  | 95,455                                  | 100.00  | 95,455                                | 636,691  | _  |      |

|   |  |               |  | Accumulated   | Investment | Flow (Note 2) | Accumulated  |   |   |                                       |  |  |      |
|---|--|---------------|--|---|------------|---------------|--|---|---|---------------------------------------|--|--|------|
| Investee Company  | Main Businesses and Products                 | Share Capital | Method<br>of<br>Investme<br>nt<br>(Note 1) | Outward<br>Remittance for<br>Investment from<br>Taiwan as of<br>January 1, 2018<br>(Note 2) | Outflow    | Inflow        | Outward<br>Remittance for<br>Investment from<br>Taiwan as of<br>December 31,<br>2018<br>(Note 2) | Net Income<br>(Loss) of the<br>Investee | % Ownership<br>of Direct or<br>Indirect<br>Investment | Investment Gair<br>(Loss)<br>(Note 3) | Carrying Amoun<br>as of<br>December 31,<br>2018 (Note 3) | Accumulated<br>Repatriation of<br>Investment<br>Income as of<br>December 31,<br>2018 | Note |
| Da Tong (Ying De) Logistics Co., Ltd.<br>(Note 6)                   | Logistics and transportation                 | \$ 22,360     | (a)  | \$ 22,360   | \$ -       | \$ -          | \$ 22,360  | \$ 15,344                               | 100.00  | \$ 15,344                             | \$ 97,646  | \$ -   |      |
| Guigang Da-Ho Shipping Co., Ltd. (Note 6)                           | Marine transportation                        | 17,888        | (a)  | 17,888  | -          | -             | 17,888   | 63,530                                  | 100.00  | 63,530                                | 334,528  | -  |      |
| Prosperity Conch Cement Company Limited                             | Manufacturing and sale of cement             | 2,593,760     | (a)  | 2,238,447   | -          | -             | 2,238,447  | 4,870,859                               | 25.00   | 1,217,715                             | 4,744,772  | -  |      |
| Yunnan Kungang & K. Wah Cement<br>Construction Materials Co., Ltd.  | Manufacturing and sale of cement             | 3,689,400     | (a)  | 1,459,370   | -          | -             | 1,459,370  | 697,402                                 | 30.00   | 209,220                               | 1,664,695  | -  |      |
| Baoshan Kungang & K. Wah Cement<br>Construction Materials Co., Ltd. | Manufacturing and sale of cement             | 1,845,058     | (a)  | 706,693   | -          | -             | 706,693  | 717,201                                 | 30.00   | 215,160                               | 876,910  | -  |      |
| Sichuan Taichang Building Material Group<br>Company Limited         | Manufacturing and sale of cement             | 894,400       | (a)  | 353,270   | -          | -             | 353,270  | 160,459                                 | 30.00   | 48,138                                | 47,692   | -  |      |
| Guangan Xin Tai Construction Materials<br>Company Limited           | Manufacturing and sale of concrete aggregate | 69,316        | (a)  | 48,228  | -          | -             | 48,228   | -                                       | 50.00   | -                                     | -  | -  |      |
| Guigang TCC DongYuan Environmental<br>Technology Company Limited    | Dangerous waste treatment                    | \$ 523,224    | (a)  | -   | 523,224    | -             | 523,224  | 1,280)                                  | 95.20   | (1,218)                               | 534,988  | -  |      |

| Accumulated Investment in<br>Mainland China as of December 31,<br>2018 | Investment Amounts Authorized by<br>Investment Commission, MOEA | Upper Limit on Investment |
|--|---|---------------------------|
| \$72,144,649   | \$73,433,132  | (Note 8)                  |

- Note 1: The method of investments were as two follows:
  - a. investments in mainland China companies were through a company invested and established in a third region.
  - b. Direct investment in mainland companies
- Note 2: Including outward remittance from offshore subsidiaries.
- Note 3: Investment gain (loss) was based on the associates' audited financial statements except Yunnan Kungang & K. Wah Cement Construction Materials Co., Ltd. and Baoshan Kungang & K. Wah Cement Construction Materials Co., Ltd. The Group considers that there would be no significant adjustments if such financial statements were to be audited.
- Note 4: As of December 31, 2018, the accumulated outward remittance for investments was a total of those from TCC Huaihua Cement Company Limited, TCC Jingzhou Cement Company Limited and TCC Huaihua Concrete Company Limited.
- Note 5: As of December 31, 2018, accumulated outward remittance for investments was a total of \$2,950,506 thousand from 10 companies, including Zunyi Scitus Cement Co., Ltd., Scitus Bijie Cement Co., Ltd., Scitus Hejiang Cement Co., Ltd., Guizhou Zunyi Ken On Concrete Co., Ltd., Scitus Bijie Concrete Co., Ltd., and Scitus Cement (Guizhou) Operating Company Limited. Except Scitus Naxi Cement Co., Ltd., Scitus Luzhou Concrete Co., Ltd., Scitus Hejiang Cement Co., Ltd., and Scitus Luzhou Concrete Co., Ltd., Scitus Hejiang Cement Co., Ltd., Scitus Hejiang Cem
- Note 6: Including the amounts attributable to non-controlling interests.
- Note 7: The Corporation received a confirmation letter of Operation Headquarter from the Industrial Development Bureau of the MOEA in October 2016 stating that the Corporation is not limited by the restriction on the accumulated percentage or amount of investment in mainland China.
- B. See Tables 1, 2, 4 and 6 for the information about significant transactions with investees in the mainland China, either directly or indirectly through a third area.

(Concluded)

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# STATEMENT OF CASH AND CASH EQUIVALENTS DECEMBER 31, 2018

(In Thousands of New Taiwan Dollars, Unless Specified Otherwise)

| Item  | Period                | Annual Rate<br>of Return | Amount                                   |
|---|-----------------------|--------------------------|--|
| Cash Cash on hand Checking accounts and demand deposits (Note) Cash equivalents |                       |                          | \$ 1,276<br>4,808,221<br>4,809,497       |
| Time deposit with original maturity date within 3 months (Note)                 | 2018.10.01-2019.01.30 | 0.13%-3.05%              | <u>6,834,188</u><br><u>\$ 11,643,685</u> |

Note: Including US\$63,978 thousand, the rates of exchange US\$1=\$30.715.

# STATEMENT OF FINANCIAL ASSETS AT FVTOCI - CURRENT DECEMBER 31, 2018

(In Thousands of New Taiwan Dollars, Unless Unit Price is New Taiwan Dollars)

|                                     | Shares        | Cost of             | Fair Value (Note) |                     |  |
|-------------------------------------|---------------|---------------------|-------------------|---------------------|--|
| Name of Financial Instruments       | (In Thousand) | Acquisition         | Unit Price        | <b>Total Amount</b> |  |
| Taishin Financial Holding Co., Ltd. | 61,149        | \$ 646,575          | \$13.05           | \$ 797,993          |  |
| CTCI Corporation                    | 9,054         | 200,438             | 44.40             | 402,013             |  |
| Chia Hsin Cement Corporation        | 27,419        | 305,388             | 13.60             | 372,904             |  |
| China Hi-Ment Corporation           | 30,196        | 261,546             | 50.10             | 1,512,828           |  |
| O-Bank                              |               |                     |                   |                     |  |
| Ordinary shares                     | 29,719        | 286,179             | 8.00              | 237,752             |  |
| Preference shares                   | 2,956         | 29,559              | 10                | 29,559              |  |
|                                     |               | <u>\$ 1,729,685</u> |                   | \$ 3,353,049        |  |

Note: The Corporation's caculation was calculated based on the closing price and the last strike price on December 31, 2018.

# STATEMENT OF ACCOUNTS RECEIVABLE DECEMBER 31, 2018

(In Thousands of New Taiwan Dollars)

| Client Name                           | Amount              |
|---------------------------------------|---------------------|
| Client A                              | \$ 201,915          |
| Client B                              | 194,198             |
| Client C                              | 187,975             |
| Client D                              | 183,184             |
| Others (Note)                         | 3,158,305           |
|                                       | 3,925,577           |
| Less: Allowance for doubtful accounts | 43,171              |
|                                       |                     |
|                                       | <u>\$ 3,882,406</u> |

Note: The amount of individual client included in others does not exceed 5% of the account balance.

### STATEMENT OF INVENTORIES DECEMBER 31, 2018 (In Thousands of New Taiwan Dollars)

|   | Amount   |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| Item  | Cost   | Net Realizable<br>Value                |  |  |  |  |  |
| Finished goods Work in process Raw materials Less: Allowance for write-downs (Note) | \$ 480,03°<br>468,80°<br>663,02°<br>1,611,86°<br>235,59° | 504,175<br>5 472,675<br>7 \$ 1,492,830 |  |  |  |  |  |
|   | \$ 1,376,27  | <u>3</u>                               |  |  |  |  |  |

Note: Included provision for obsolete inventory loss.

# STATEMENT OF FINANCIAL ASSETS AT FVTPL - NON-CURRENT FOR THE YEAR ENDED DECEMBER 31, 2018

(In Thousands of New Taiwan Dollars, Unless Unit Price is New Taiwan Dollars)

|  |  |                  | Adjustment on                       |                                  |                  | Unrealized                                 |                   | Fair Value on December 31, 2018 (Note) |            |                                  |
|--|--|------------------|-------------------------------------|----------------------------------|------------------|--|-------------------|--|------------|----------------------------------|
| Name of Securities                     | Balance at Jar<br>Shares<br>(In Thousands) | Amount           | Initial<br>Application of<br>IFRS 9 | Addi<br>Shares<br>(In Thousands) | Amount           | Gain (Loss) on<br>Financial<br>Instruments | Reclassified      | Shares<br>(In Thousands)               | Unit Price | Balance,<br>December 31,<br>2018 |
| Unlisted shares                        |  |                  |                                     |                                  |                  |  |                   |  |            |                                  |
| Taiwan Stock Exchange                  | 45,983                                     | \$ 8,011         | \$ 3,047,671                        | -                                | \$ -             | \$ 316,227                                 | \$ -              | 45,983                                 | 73.33      | \$ 3,371,909                     |
| Chinatrust Investment Co., Ltd.        | 27,361                                     | 12,156           | 867,788                             | 2,192                            | 37,249           | 55,678                                     | -                 | 29,553                                 | 32.92      | 972,871                          |
| IBT II Venture Capital Corporation     | 2,626                                      | 20,426           | -                                   | · -                              | (1,333)          | -  | -                 | 2,626                                  | 7.27       | 19,093                           |
| Rong Gong Enterprise Co.               | 3,390                                      | 33,900           | (17,662)                            | -                                | -                | (3,932)                                    | -                 | 3,390                                  | 3.63       | 12,306                           |
| Pan Asia Corporation                   | 6,204                                      | 8,996            | -                                   | -                                | -                | -  | -                 | 6,204                                  | 1.45       | 8,996                            |
| E-ONE Moli Energy Corporation (Note 2) | 983  | 1,670            | (98)                                | (983)                            | 5,278            | -  | (6,850)           | -                                      | -          | -                                |
| Excel Corporation                      | 600  |                  | <u>-</u>                            | -                                |                  |  |                   | 600                                    | -          |                                  |
|  |  | <u>\$ 85,159</u> | \$ 3,897,699                        |                                  | <u>\$ 41,194</u> | \$ 367,973                                 | <u>\$ (6,850)</u> |  |            | <u>\$ 4,385,175</u>              |

Note 1: Reported as financial assets measured at cost on December 31, 2017.

Note 2: The Corporation's percentage of ownership in E-ONE Moli Energy Corporation increased from 0.4% to 16% during 2018. With a significant impact on the investments were reclassified to investments accounted for by using the equity method.

#### STATEMENT OF CHANGES IN INVESTMENTS ACCOUNTED FOR USING EQUITY METHOD

FOR THE YEAR ENDED DECEMBER 31, 2018

(In Thousands of New Taiwan Dollars, Unless Unit Price is New Taiwan Dollars)

|  |                |                |                |               | Investee       | Investment           |                |                |                  |                |             |                |
|--|----------------|----------------|----------------|---------------|----------------|----------------------|----------------|----------------|------------------|----------------|-------------|----------------|
|  | Balance, Jan   | uary 1, 2018   | Changes fo     | or the Year   | Company        | Income or Loss       | Equity         |                | ice, December 31 | , 2018         |             |                |
|  | Shares         |                | Shares         |               | Distributed as | for Using the        | Adjustments    | Shares         |                  |                |             | Price (Note 8) |
| Name   | (In Thousands) | Amount         | (In Thousands) | Amount        | Cash Dividends | <b>Equity Method</b> | (Note 1)       | (In Thousands) | Ownership        | Amount         | Unit Price  | Total Amount   |
| Listed company                                       |                |                |                |               |                |                      |                |                |                  |                |             |                |
| International CSRC Investment Holdings Co., Ltd.     |                |                |                |               |                |                      |                |                |                  |                |             |                |
| (Note 2)   | -              | \$ -           | 135,820        | \$ 5,112,610  | \$ -           | \$ 56,168            | \$ (128,492)   | 135,820        | 15.6             | \$ 5,040,286   | \$ 38.95    | \$ 5,290,198   |
| Taiwan Prosperity Chemical Corporation (Note 3)      | 145,988        | 1,608,901      | (24,640)       | (787,369)     |                | 153,298              | 438,479        | 116,791        | 40.0             | 1,413,309      | 22.65       | 2,645,316      |
|  |                | 1,608,901      |                | 4,325,241     | -              | 209,466              | 309,987        |                |                  | 6,453,595      | -           | -              |
| Unlisted company                                     |                |                |                |               |                |                      |                |                |                  |                | -           | -              |
| TCCI   | 600,876        | 60,108,134     | 500,000        | 15,430,125    | -              | 12,153,185           | (1,823,917)    | 1,100,876      | 100.0            | 85,867,527     | -           | -              |
| TCCIH  | 1,319,841      | 19,054,259     | 1,261,991      | 21,576,350    | -              | 5,090,948            | (1,554,365)    | 2,581,832      | 38.3             | 44,167,192     | -           | -              |
| Taiwan Cement Dutch                                  | -              | -              | 831            | 29,470,972    | -              | (2,754)              | 3,263          | 831            | 100.0            | 29,471,481     | -           | -              |
| Ho-Ping Power Company (Note 4)                       | 602,973        | 18,612,533     | 202,967        | -             | (2,975,000)    | 1,422,513            | (79)           | 805,940        | 59.5             | 17,059,967     | -           | -              |
| Hoping Industrial Port Corporation                   | 319,990        | 5,525,572      | -              | -             | (799,975)      | 740,147              | 192,695        | 319,990        | 100.0            | 5,658,439      | -           | -              |
| TCC Investment Corporation (Note 4)                  | 54,150         | 2,056,607      | 9,000          | -             | (3,673)        | 207,697              | 839,074        | 63,150         | 100.0            | 3,099,705      | -           | -              |
| Ta-Ho Maritime Corporation                           | 118,649        | 2,029,315      | -              | -             | (110,344)      | 217,792              | 159,659        | 118,649        | 64.8             | 2,296,422      | -           | -              |
| Taiwan Transport & Storage Corporation               | 32,668         | 1,698,943      | -              | -             | (80,363)       | 135,505              | 61,864         | 32,668         | 83.9             | 1,815,949      | -           | -              |
| CCC USA Corp.  | 39             | 694,072        | 40             | 802,438       | _              | 103,372              | 25,562         | 79             | 33.3             | 1,625,444      | -           | -              |
| TCC Green Energy Corporation                         | 10,000         | 179,619        | 140,899        | 1,400,000     | -              | (50,286)             | · -            | 150,899        | 100.0            | 1,529,333      | -           | -              |
| Ho Sheng Mining Co., Ltd.                            | 30,100         | 1,014,025      | _              | -             | -              | 55,392               |                | 30,100         | 100.0            | 1,069,417      | -           |                |
| TCC Chemical Corporation (Note 6)                    | 240,000        | 1,539,861      | -              | -             | -              | 75,555               | (672,983)      | 240,000        | 100.0            | 942,433        | -           | -              |
| ONYX Ta-Ho Environmental Services Co., Ltd. (Note 4) | 8,000          | 481,263        | 22,176         | _             | (24,640)       | 329,427              | 176            | 30,176         | 50.0             | 786,226        | _           | _              |
| Taiwan Cement Engineering Corporation                | 59,593         | 698,982        | _              | _             | -              | 12,778               | (1,631)        | 59,593         | 99.0             | 710,129        | _           | _              |
| E-ONE Moli Energy Corporation (Note 5)               | _              | _              | 48,127         | 471,864       | _              | 51,909               | (576)          | 48,127         | 16.0             | 523,197        | _           | _              |
| Kuan-Ho Refractories Industry Corporation            | 18,105         | 394,925        | -              | _             | (60,471)       | 117,870              | 1,582          | 18,105         | 95.3             | 453,906        | _           | _              |
| Feng Sheng Enterprise Company                        | 27,261         | 347,734        | _              | _             | (13,630)       | 16,604               | (2,237)        | 27,261         | 45.4             | 348,471        | _           | _              |
| HKCMCL   | 38             | 277,915        | _              | _             | -              | 36,081               | 9,026          | 38             | 84.7             | 323,022        | _           | _              |
| Ta-Ho Onyx Taitung Environment Co., Ltd.             | 37,100         | 296,329        | _              | _             | _              | 859                  | -,             | 37,100         | 100.0            | 297,188        | _           | _              |
| TCC Information Systems Corporation                  | 14,904         | 272,046        | _              | _             | (22,207)       | 8,985                | (6,878)        | 14,904         | 99.4             | 251,946        | _           | _              |
| Jin Chang Minerals Corporation                       | 1,800          | 157,214        | _              | _             | (27,677)       | 90,475               | (0,070)        | 1,800          | 100.0            | 220,012        | _           | _              |
| Ta-Ho Onyx RSEA Environment Co., Ltd.                | 66,600         | 207,094        | _              | _             | (27,077)       | (6,663)              | _              | 66,600         | 66.6             | 200,431        | _           | _              |
| HPC Power Service Corporation                        | 6              | 107,200        |                |               | (105,336)      | 111,443              | 1,150          | 6              | 60.0             | 114,457        |             |                |
| E.G.C. Cement Corporation                            | 8.063          | 98,110         |                |               | (105,550)      | 5,506                | (37)           | 8,063          | 50.6             | 103,579        |             |                |
| Synpac Ltd.  | 2,700          | 6,697          |                |               |                | 78                   | 216            | 2,700          | 25.0             | 6,991          |             |                |
| Tung Chen Mineral Corporation                        | 20             | 1,394          |                |               |                | (42)                 | 210            | 20             | 99.5             | 1,352          |             |                |
| Kuan-Ho Construction & Development Corporation       | 20             | 1,554          |                |               |                | (42)                 |                | 20             | 77.5             | 1,552          |             |                |
| (Note 6)   | 35,959         | 640,228        | (35,959)       | (640,228)     | _              | _                    | _              | _              | _                | _              |             | _              |
| TMC (Note 7)   | 120            | 070,220        | (33,739)       | (070,220)     | -              | -                    | -              | 120            | 72.7             | -              | -           | -              |
| TPMC (Note 7)  | 20             | -              | •              | -             | -              | -                    | -              | 20             | 40.0             | -              | -           | •              |
| 11 MC (NOW /)  | 20             | 116,500,071    | -              | 68,511,521    | (4,223,316)    | 20,924,376           | (2,768,436)    | 20             | 40.0             | 198,944,216    | <del></del> |                |
|  |                | 110,500,071    |                | 00,311,321    | (4,223,310)    |                      | (2,700,430)    |                |                  | 190,944,210    |             | <u>-</u>       |
|  |                | \$ 118,108,972 |                | \$ 72,836,762 | \$ (4,223,316) | \$ 21,133,842        | \$ (2,458,449) |                |                  | \$ 205,397,811 | \$ -        | \$ -           |

Note 1: Including exchange differences on translating foreign operations and investee company changes in equity.

Note 2: During 2018, the Corporation's percentage of ownership in International CSRC Investment Holdings Co., Ltd. increased from 8.8% to 15.6%. With a significant impact on the investee, the original investments previously recognized as financial assets at FVTOCI were reclassified to investments accounted for by using the equity method.

Note 3: The Corporation adjusted the structure of the its's internal investment. The Corporation successively disposed of a portion of its interest in Taiwan Prosperity Chemical Corporation in 2018, but the Corporation still have the control on it after disposal.

Note 4: The increase of quantity of share is caused by retaining transferred to common stock.

Note 5: During 2018, the Corporation's percentage of ownership in of E-ONE Moli Energy Corporation increased from 0.4% to 16%. With a significant impact on the investments were reclassified to investments accounted for by using the equity method.

- Note 6: TCC Chemical Corporation changed its Chinese-language name in December 2017. Its original main business was processing and selling chemical materials. A resolution of its board of directors changed its main business to leasing property and energy technology services in November 2017. For the propose of streamlining its investment structure, its board of directors approved to merge Kuan-Ho Construction & Development Corporation, with TCC Chemical Corporation as the surviving company. The effective date of the merger was on January 1, 2018.
- Note 7: As of December 31, 2018, the deficit of TMC and TPMC were \$14,377 thousand and \$5,722 thousand, which is included in other non-current liabilities.
- Note 8: It was calculated based on the closing price on December 31, 2018.

(Concluded)

# STATEMENT OF CHANGES IN INVESTMENT PROPERTIES FOR THE YEAR ENDED DECEMBER 31, 2018

(In Thousands of New Taiwan Dollars)

| Item                     | Balance at<br>January 1,<br>2018 | Addition | Decrease   | Balance at<br>December 31,<br>2018    |
|--------------------------|----------------------------------|----------|------------|---------------------------------------|
| Cost                     |                                  |          |            |                                       |
| Land                     | \$ 3,996,172                     | \$ -     | \$ -       | \$ 3,996,172                          |
| Buildings                | 261,132                          | <u>-</u> | <u>-</u> _ | 261,132                               |
| · ·                      | 4,257,304                        | \$ -     | \$ -       | 4,257,304                             |
| Accumulated depreciation |                                  |          |            | · · · · · · · · · · · · · · · · · · · |
| Buildings                | 227,497                          | \$ 231   | \$ -       | 227,728                               |
| Accumulated impairment   |                                  |          |            |                                       |
| Land                     | 653,377                          | \$ -     | \$ -       | 653,377                               |
| Buildings                | 23,522                           | <u>-</u> | <u>-</u> _ | 23,522                                |
|                          | 676,899                          | \$ -     | \$ -       | 676,899                               |
|                          | \$ 3,352,908                     |          |            | \$ 3,352,677                          |

# STATEMENT OF SHORT-TERM LOANS DECEMBER 31, 2018

(In Thousands of New Taiwan Dollars)

| Item  | Loan Period           | Amount (Note)        |
|---|-----------------------|----------------------|
| Bank Credit Loan  |                       |                      |
| Export-Import Bank of the Republic of China                       | 2018/03/26-2019/03/25 | \$ 400,000           |
| Citibank Taiwan (Taipei)  | 2018/12/26-2019/01/08 | 330,000              |
| Crédit Agricole Corporate and Investment Bank                     | 2018/12/26-2019/01/08 | 500,000              |
| Hua Nan Commercial Bank (Yuanshan)                                | 2018/12/26-2019/01/09 | 800,000              |
| Fubon Commercial Bank Co., Ltd.                                   | 2018/12/26-2019/01/09 | 600,000              |
| Mizuho Corporate Bank Ltd (Taipei)                                | 2018/12/26-2019/01/09 | 2,460,000            |
| Oversea-Chinese Banking Corporation Ltd.                          | 2018/12/26-2019/01/25 | 900,000              |
| Chinatrust Commercial Bank  | 2018/12/26-2019/01/09 | 1,000,000            |
| Bank SinoPac Company Limited                                      | 2018/12/26-2019/01/09 | 500,000              |
| First Commercial Bank (Jung Shan)                                 | 2018/12/26-2019/01/09 | 500,000              |
| Bank of Taiwan  | 2018/12/26-2019/01/09 | 629,000              |
| Bank of China Limited (Taipei)                                    | 2018/12/26-2019/01/09 | 500,000              |
| Land Bank of Taiwan (Ren Ai)                                      | 2018/12/26-2019/01/09 | 1,200,000            |
| The Bank Of Tokyo-Mitsubishi UFJ, Ltd.                            | 2018/12/26-2019/01/09 | 1,000,000            |
| Mega International Commercial Bank Co., Ltd. (Foreign department) | 2018/12/26-2019/01/09 | 800,000              |
| The Hongkong and Shanghai Banking Corp. Ltd                       | 2018/12/26-2019/01/09 | 850,000              |
|   |                       | <u>\$ 12,969,000</u> |

Note: The interval of rate is 0.80%-1.11%, and the total loan commitments is \$14,248,640 thousands.

STATEMENT OF LONG-TERM LOANS DECEMBER 31, 2018 (In Thousands of New Taiwan Dollars)

| Type of Loan and<br>Creditor | Contract<br>Period | Annual<br>Interest Rates<br>(%) | Amount        | Loan<br>Commitments | Collateral |
|------------------------------|--------------------|---------------------------------|---------------|---------------------|------------|
| Syndicated loan (Note)       |                    |                                 |               |                     |            |
| Type A                       | 107.3-112.3        |                                 | \$ 13,600,000 | \$ 21,500,000       | -          |
| Type B                       | 107.3-112.3        |                                 | 21,500,000    | 21,500,000          | -          |
|                              |                    |                                 | 35,100,000    | \$ 43,000,000       |            |
| Issue costs                  |                    |                                 | (110,867)     |                     |            |
| Current portions             |                    |                                 |               |                     |            |
|                              |                    |                                 | \$ 34,989,133 |                     |            |

Note: Including Oversea-Chinese Banking Corporation Ltd., BNP Paribas Euronext, Bank of Taiwan, Land Bank of Taiwan, Hua Nan Bank, E.SUN Bank, Bank SinoPac, The Shanghai Commercial & Savings Bank, Ltd., KGI Bank, The Bank of Tokyo-Mitsubishi UFJ, Entie Commercial Bank, Bank of Communications, Mega International Commercial Bank, Mizuho Corporate Bank Ltd (Taipei), Taipei Fubon Commercial Bank, Taiwan Cooperative Bank, Crédit Agricole Corporate and Investment Bank, Bank of China, E.SUN Bank, Yuanta Bank, Taichung Commercial Bank, CTBC Bank, Cathay United Bank, The Japanese Sumitomo Mitsui Banking Corporation, China Construction Bank, Standard Chartered Bank.

### STATEMENT OF NET REVENUE FOR THE YEAR ENDED DECEMBER 31, 2018 (In Thousands of New Taiwan Dollars)

| Item                      | Shipments                   | Amount        |  |  |
|---------------------------|-----------------------------|---------------|--|--|
| Domestic sales            |                             |               |  |  |
| Cement - related products | 4,715 thousand cubic meters | \$ 8,183,032  |  |  |
| Cement                    | 2,195 thousand tons         | 4,931,704     |  |  |
| Clinker                   | 853 thousand tons           | 1,279,236     |  |  |
| Others                    |                             | 262,132       |  |  |
|                           |                             | 14,656,104    |  |  |
| Export                    |                             |               |  |  |
| Cement                    | 1,451 thousand tons         | 1,817,940     |  |  |
| Others                    |                             | 505,401       |  |  |
|                           |                             | 2,323,341     |  |  |
|                           |                             | \$ 16,979,445 |  |  |

### STATEMENT OF OPERATING COSTS FOR THE YEAR ENDED DECEMBER 31, 2018

(In Thousands of New Taiwan Dollars)

| Item                                    | Amount               |
|---|----------------------|
| Balance at beginning of year            | \$ 875,079           |
| Add: Raw materials purchased            | 7,383,713            |
| Less: Raw materials, end of year        | 663,026              |
| Raw materials used                      | 7,595,766            |
| Direct labor                            | 259,525              |
| Manufacturing expenses                  | 3,172,939            |
| Manufacturing costs                     | 11,028,230           |
| Add: Work in process, beginning of year | 504,840              |
| Work in process purchased               | 996,973              |
| Less: Work in process, end of year      | 468,803              |
| Work in process sold                    | 952,533              |
| Cost of finished goods                  | 11,108,707           |
| Add: Finished goods, beginning of year  | 504,572              |
| Finished goods purchased                | 432,521              |
| Less: Finished goods, end of year       | 480,037              |
| Add: Transportation costs               | 2,307,409            |
| Commodity tax                           | 717,687              |
| Work in process sold                    | 952,533              |
| Inventory write-downs                   | 6,401                |
| Others                                  | 50,716               |
| Opearating Costs                        | <u>\$ 15,600,509</u> |

### STATEMENT OF OPERATING EXPENSES FOR THE YEAR ENDED DECEMBER 31, 2018 (In Thousands of New Taiwan Dollars)

| Item                                | Selling<br>Expenses |         | General and<br>Administrative<br>Expenses |         | Total                  |
|-------------------------------------|---------------------|---------|---|---------|------------------------|
| Payroll and pension                 | \$                  | 69,700  | \$  | 471,265 | \$<br>540,965          |
| General and administrative expenses |                     | 19,578  |   | 89,100  | 108,678                |
| Rental expenses                     |                     | 30,209  |   | 48,960  | 79,169                 |
| Professional service fees           |                     | 2,152   |   | 75,873  | 78,025                 |
| Shipping expenses                   |                     | 71,377  |   | 1,996   | 73,373                 |
| Depreciation expenses               |                     | 369     |   | 58,870  | 59,239                 |
| Others (Note)                       |                     | 36,791  |   | 211,056 | <br>247,847            |
|                                     | <u>\$</u>           | 230,176 | \$  | 957,120 | \$<br><u>1,187,296</u> |

Note: The amount of each item in others does not exceed 5% of the amount balance.