Stock Code: 2337



# Year 2020 Annual Report

Printed on March 30, 2021

This Annual Report is available at the following Websites:

Taiwan Stock Exchange Market Observation Post System: <a href="http://mops.twse.com.tw">http://mops.twse.com.tw</a>

Corporate Website: <a href="http://www.macronix.com">http://www.macronix.com</a>

-----Disclaimer----

THIS IS A TRANSLATION OF THE YEAR 2020 ANNUAL REPORT OF MACRONIX INTERNATIONAL CO., LTD. THE TRANSLATION IS FOR REFERENCE ONLY. IF THERE IS ANY DISCREPANCY BETWEEN THE ENGLISH VERSION AND CHINESE VERSION, THE CHINESE VERSION SHALL PREVAIL.

#### I. Company Spokesperson and Deputy

Spokesperson: Miin Chyou Wu

Title: Chairman and CEO
Tel: 03-5786688

E-mail: ir@mxic.com.tw

Deputy Spokesperson: Pei-Fu Yeh
Title: Vice President
Tel: 03-5786688

E-mail: ir@mxic.com.tw

#### II. Headquarters and Factories

Headquarters and FAB 2: No. 16, Li-Hsin Road, Science Park, Hsin-chu, Taiwan, R.O.C.

Tel: 03-5786688

FAB 1: No. 3, Creation Road III, Science Park, Hsin-chu, Taiwan, R.O.C.

Tel: 03-5788888

FAB 5: No. 19, Li-Hsin Road, Science Park, Hsin-chu, Taiwan, R.O.C.

Tel: 03-6668999

Product Testing: No. 8, Creation Road IV, Science Park, Hsin-chu, Taiwan, R.O.C.

Tel: 03-5783333

Taipei Office: 19F, No. 4, Min-Chuan E. Road, Sec. 3, Taipei, Taiwan, R.O.C.

Tel: 02-25093300

#### III. Stock Transfer Agency

Stock Affairs Office of Macronix International Co., Ltd.

Address: 2F, No. 162-1, Songjiang Road, Taipei, Taiwan, R.O.C.

Website: http://www.macronix.com

Tel: 02-25638128

#### IV. Auditors

Accounting Firm: Deloitte & Touche

Accountant: Tung Hui Yeh, Kuo Tyan Hong

Address: 6F, No. 2, Prosperity Road I, Science Park, Hsin-chu, Taiwan, R.O.C.

Website: http://www.deloitte.com.tw

Tel: 03-5780899

#### V. Overseas Securities Exchanges: None

VI. Company Website: http://www.macronix.com

# Macronix's Philosophy

# Honesty

# Macronix's Values

Innovation, Quality, Efficiency, Service, Team Work

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# **Chapter I. Letter to Shareholders**

The COVID-19 pandemic in 2020 resulted in a series of crises, including exchange rate fluctuations, trade conflicts, and broken supply chains, which further affected the international political and economic situation. The pandemic also changed how many people work and their way of life, creating business opportunities in a stay-at-home economy, which has driven increased demand on high capacity NOR Flash in the server, 5G base station, and medical device markets. Macronix is already a leader in high capacity and high quality applications thanks to its long-term efforts and strategies. As such, we have earned the trust of international customers. Combined with the strong demand of gaming console customers on ROM products, Macronix continued to operate at full capacity despite the severe economic environment, and its 2020 revenue was still able to grow despite all headwinds. Our consolidated net operating revenue increased 14% compared with the previous year (2019) and reached a record high, gross margin was up 6 percentage points compared with the previous year (2019), and net income before tax doubled compared with the previous year (2019). These results show Macronix's ability to create even greater investment value for shareholders.

The operating performance of 2020 is as follows: consolidated net operating revenue for the year was NT\$39.801 billion, annual consolidated gross profit was NT\$13.409 billion, while annual gross margin was 33.7%, net income after tax was NT\$5.326 billion, and earnings per share jumped to NT\$2.9. Cash generated from operating activities was NT\$9.855 billion, cash expenditures for investment activities was NT\$6.043 billion, with NT\$11.879 billion in cash at the end of the period, debt ratio was 45.1%, book value per share rose to NT\$19.52, and return on equity increased to 16%. Financial ratios were all better than the previous year (2019) and show that Macronix's financial structure is robust and healthy.

Macronix was established over 30 years ago, but our spirit of "Innovation and R&D" has remained unchanged. We insist on innovation and actively apply for patents, and this is why Macronix has become a global leader in the non-volatile memory market. In recent years, we published numerous papers on NAND and 3D stacking technology with both academic and commercial value and obtained related patents. We are also developing next generation technologies for the memory industry. Investment expenses for R&D were equivalent to about 10% of our revenue last year (2020), and were mainly on advanced technology R&D and production process improvement. As of the end of last year (2020), Macronix has a total of 8,320 patents worldwide. Our strong R&D capabilities and abundant intellectual property lays the foundation for our long-term development.

Regarding the development of processes and products, in terms of ROM, products with capacity over 64Gb accounted for 58% of ROM revenue in the fourth quarter of last year (2020), and ROM products accounted for approximately 40% of overall revenue. With regard to NOR Flash, 55 nm advanced products accounted for 23% of NOR Flash revenue in Q4 2020, and we will continue to develop towards a 45 nm process. 256Mb and above high density products are accounting for an increasing percentage of NOR Flash revenue each year, and has reached 36% as of last year (2020). High quality applications in automobile, industry, healthcare, and aerospace account for 27% of NOR Flash revenue, and can be expected to become the main source of revenue growth for NOR Flash products. With regard to NAND Flash products, 19 nm SLC NAND Flash products have excellent yield, and new products and new applications are now entering the verification phase with high expectations from customers. As for 3D NAND, we have completed the development of 48-layer products in phase one. The products will begin to contribute to revenue after mass production begins, and we will continue to sprint towards our goal of 192-layer stacking technology for next generation memory products.

Following new applications of AI, 5G, and IoT, as well as the rapid development of automobile electronics, industrial applications, and mobile devices, memory chips will be applied in even more fields. Macronix has both excellent product design and manufacturing technologies, and is able to continue providing customers with high performance and highly reliable memory solutions, creating even greater added value for our products. For example, we were the first to make the innovative proposal to have the main chip of 19 nm Serial NAND Flash process ECC, and this has become a paradigm for the best quality and cost effectiveness. We have gained an important cost advantage in NAND Flash via the 19 nm Serial NAND Flash, and have

fully transitioned to industry-leading processes. Furthermore, due to the growing importance of information security in IoT and smart devices, the level of integration and complexity of automobile electronic systems have also increased. Macronix's ArmorFlash<sup>TM</sup> already has a key secure element design and is expected to play a key role in high-end secure memory products. Hence, we will use our advanced technologies, highest quality, and reliable services to provide long-term support, and will work together with our customers to welcome new growth opportunities.

ESG (Environmental, Social, and Governance) issues have attracted growing attention in recent years. We firmly believe that healthy corporate governance is the core of ESG sustainable development. Hence, Macronix keeps pace with the times in disclosing its implementation of corporate governance and issues of concern to stakeholders. We have not only gained excellent results in the domestic Corporate Governance Evaluation, but was also recognized with the CSR Annual Sustainable Elite Award at the SGS CSR Awards for two consecutive years. We have received numerous awards from government agencies for our environmental protection and employee safety and health. Also, we have gained excellent results from the promotion of science education through the Macronix Education Foundation over the years. The Board of Directors approved a donation to National Cheng Kung University for an interdisciplinary innovative talent cultivation project in 2020. All of these show that Macronix takes action to give back to society. Facing volatile global industrial trends, we will disclose climate change-related risks and opportunities according to the FSC's "Corporate Governance 3.0 – Sustainable Development Blueprint," and will fulfill our CSR to make Macronix a sustainable enterprise.

Looking towards the future, Macronix will maintain the business strategies of "honesty" and "focus", and will strive to develop and manufacture advanced non-volatile memory with excellent quality. At the same time, we will maximize the production capacity of our 8" and 12" fabs to maximize output, and will utilize a performance-oriented salary policy to retain professional talent. This will allow all employees to work towards the same goals and jointly increase the Company's value, creating a win-win situation for shareholders, customers, and employees, so that the Company's business performance will reach new heights!

Chairman: Miin Chyou Wu

President: Chih-Yuan Lu

# **Chapter II. Company Overview**

#### I. Date of Establishment

Macronix International Co., Ltd. was founded on December 9, 1989.

#### **II.** Company History

#### (I) Overview

Macronix was founded in Hsinchu Science Park, Taiwan, in 1989, and was the first company to be listed as a Category C technology stock in Taiwan in 1995. Macronix is a leading integrated device manufacturer in the global non-volatile memory (NVM) market that provides a full range of NOR flash, NAND flash, and ROM products.

With its world-class R&D and manufacturing capabilities, Macronix continues to deliver the highest-quality, innovative and performance-driven products to its customers in the consumer, communications, computing, automotive, networking and other market segments. We provide high-end application clients with superior products of the highest quality.

Macronix currently owns one 12-inch wafer fab (Fab 5), one 8-inch wafer fab (Fab 2), and one 6-inch wafer fab (Fab 1). Fab 5 and Fab 2 are for Macronix own products, and Fab 1 is focusing on strategic foundry businesses for niche analog and logic products. Macronix will continue to develop technology and accelerate the implementation of its own product's competitive advantage, continue to develop new products, strengthen technology, quality and service, and strive for Macronix's sustainable management and Taiwan's global competitiveness. Please refer to the company's website for Milestones (URL: http://www.macronix.com).

- (II) The Company's Mergers and Acquisitions, Reinvestment in Affiliated Enterprises, and Restructuring
  - 1. Implementation of Major Mergers and Acquisitions: None.
  - 2. Reinvestment in Affiliated Companies: Please refer to page 120 to 124 of this Annual Report for the "Summary of Affiliated Companies".
  - 3. Reorganization: None.
- (III) Mass Transfer of Equity by or Change of Directors, Supervisors, or Major Shareholders Holding More than 10% of Outstanding Shares: None.
- (IV) Major Changes of Ownership, Business Management or Operation: None.
- (V) Other Matters Sufficient to Affect Shareholders' Equity and Impacts on the Company: None.

# (VI) Milestones

| Month/Year           | Milestones   |
|----------------------|--|
| Dec. 1989            | • Establishment of the Company.  |
| Dec. 1990            | Joint development of Mask ROM with NKK Corp., Japan.                             |
| Jan. 1991            | • Successfully developed the 256Kb and 512Kb EPROM.                              |
| Dec.                 | • Revenue exceeded NT\$ 100 million.   |
| May. 1992            | Macronix's Flat Cell patent was granted by USPTO.                                |
| Jun.                 | • Mass production of FAB 1 with monthly production exceeding 5,000 wafers.       |
| Oct.                 | • Launched the world first 4Mb Flash Memory.                                     |
| Jun. 1993            | Process technology migrated to 0.6 um.   |
| Oct.                 | • Signed manufacturing cooperation agreement with TSMC.                          |
| Jan. 1994            | • Announced the new product of R3000 RISC CPU.                                   |
| Feb.                 | • Grand opening of the Creation Building.  |
| Mar. 1995            | • First listed High-Tech company under Category C in Taiwan Stock Exchange       |
| 1 <b>VI</b> ui. 1775 | ("TSE")  |
| Dec.                 | • Grand opening of the Testing Plant and Recreation Hall.                        |
| Mar. 1996            | • Completion of the world first 10/100M bps Ethernet and high-speed Ethernet     |
| 1,141, 1550          | BRIDGE CONTROLLER development.   |
| May.                 | • First Taiwanese company listed in Nasdaq, USA.                                 |
| Dec.                 | • Yearly sales revenue exceeded NT\$10 billion.                                  |
| Feb. 1997            | • Issued the first ECB for approximately US\$ 210 million.                       |
| Mar.                 | • Mass production of FAB 2.  |
| May.                 | • Company shares listed at TSE changed from Category C to Category A.            |
| Sep.                 | • Establishment of Stock Affair Office.  |
| Oct.                 | • Signed cooperation memorandum with Matsushita Electronics, Japan.              |
| Aug. 1998            | • Joint development of 16Mb XA microcontroller with Philips Semiconductor.       |
| Dec.                 | • Completion of new organization structure for Y2000 challenges.                 |
| Mar. 1999            | Grand opening of the new Headquarters Building.                                  |
| Feb. 2000            | • Jointly developing the world's first single chip solution for 32Mbyte Mask ROM |
|                      | with Infineon.   |
| Aug.                 | Cooperated with Mitsubishi in mobile memory IC manufacturing.                    |
| Dec.                 | Strategic alliance with Tower Semiconductor, Israel.                             |
| Aug. 2001            | Establishment of the Macronix Education Foundation.                              |
| Dec.                 | • NT\$300 million donation to Tsing Hua University for its construction of       |
|                      | "Learning Resource Center Building".   |
| Jul. 2002            | • Grand opening of FAB 3.  |
| Oct.                 | Grand opening of Employee Dormitory with Recreation Facilities.                  |
| May 2003             | • Ruling in favor of Macronix against Atmel's US 4419747 patent.                 |
| Apr. 2004            | • US\$170 million GDR offering listed at Luxembourg.                             |
| Jul.                 | • Joint development of the Phase Change Memory Technology with IBM.              |
| Mar. 2005            | Mr. Miin Wu was elected as the Chairman of Macronix.                             |
| Jun.                 | Mass production of 150 nm 3V Serial Flash products.                              |
| Nov.                 | Capital reduction resolved by the provisional shareholders meeting.              |
| Jan. 2006            | • FAB 3 Disposal documents signed.   |
| May.                 | New shares listed at TSE after capital reduction.                                |
| Dec.                 | • Five technical papers selected by 2006 International Electron Devices Meeting  |
|                      | (IEDM), among which the paper with IBM and Qimonda regarding Phase               |
|                      | Change Memory was highlighted by IEDM and ISSCC.                                 |
|                      | Mass production of 100 nm XtraROM®.  |

| Month/Year | Milestones   |
|------------|--|
| Jan. 2007  | Spined off four subsidiaries.  |
| Jul.       | • Dr. Chih-Yuan Lu was appointed as the President of Macronix.                                     |
| Aug.       | • Mass production of 75 nm XtraROM <sup>®</sup> .  |
|            | Mass production of 130 nm 3V Serial Flash products.  |
| Oct.       | Macronix's ADR delisted from Nasdaq.   |
|            | • Frost & Sullivan awarded Macronix with its 2007 Excellence in Research of the                    |
|            | Year Award in the Asia Pacific Phase Change Memory Technologies Market.                            |
| Oct. 2008  | Foundation-Laying Ceremony of Macronix's affiliated company in SuZhou                              |
|            | Industrial Park, China was held.   |
|            | • Mass production of 65 nm XtraROM <sup>®</sup> .  |
| May. 2009  | Mass production of 110 nm 3V Serial Flash products.  |
| Dec.       | Macronix was awarded of National Industrial Safety& Health Awards.                                 |
| Apr. 2010  | • FAB 5 Acquisition.   |
| Jun.       | • Two technical papers were selected by the Symposium on VLSI Technology,                          |
|            | and among those the paper regarding 3D VG NAND Flash was selected as one                           |
|            | of the 8 highlighted papers.   |
| Nov.       | Mass production of 75 nm 3V Parallel Flash products.   |
| Dec.       | • FAB 5 unveiling ceremony.  |
| Feb. 2011  | Mass production of 110nm 1.8V Parallel Flash products.   |
| Mar.       | • Mr. Miin Chyou Wu, Chairman & CEO of Macronix, was awarded with                                  |
|            | Honorary Doctorate by National Tsing Hua University.   |
| July.      | • Mr. Chih-Yuan Lu, President of Macronix, was awarded with 2012 IEEE                              |
|            | Frederik Philips Award.  |
| Sep.       | Macronix honored with 2011 National Invention and Creation Award.                                  |
| Nov.       | Macronix ranked number one in patent strength in Taiwan's semiconductor                            |
| -          | industry, and 18th worldwide.  |
| Dec.       | • Mass production of 75 nm 1.8V Serial Flash products.   |
| T 2012     | • Mass production of 75 nm 3V NAND Flash products.   |
| Jan. 2012  | • Mr. Chih-Yuan Lu, President of Macronix was awarded with Special                                 |
|            | Distinguished Award of Physical Society of Republic of China.                                      |
| F 1        | • Mass production of 45 nm XtraROM <sup>®</sup> .  |
| Feb.       | • Mass production of 75 nm 1.8V Parallel Flash products.   |
| Sep.       | • Mass production of 75 nm 3V Serial Flash products.   |
| Oct.       | Macronix Received the 13th National Standardization Forward-looking  Contribution Award            |
| Apr. 2013  | Contribution Award.  • Opening ceremony of the Macronix Building at National Tsing Hua University. |
| Apr. 2013  | • Mr. Chih-Yuan Lu, President of Macronix was awarded with Honorary                                |
|            | Doctorate by National Chiao Tung University.   |
| Jul.       | Mr. Chih-Yuan Lu, President of Macronix was awarded with ITRI Laureate.                            |
| Dec.       | • Mr. Chih-Yuan Lu, President of Macronix was awarded with Presidential                            |
| Dec.       | Science Prize.   |
|            | Macronix Education Foundation was awarded by the Ministry of Education with                        |
|            | Outstanding Educational Foundation Award.  |
| Feb. 2014  | Mass production of 55 nm 3V Parallel Flash products.   |
| May.       | • Mass production of 55 nm 3V Serial Flash products.   |
| iviuy.     | • Mass production of 36 nm 1.8V/3V NAND Flash products.  |
| Jun.       | • Mass production of 32 nm XtraROM® products.  |
| 0 0111     | 2.2000 production of the initiality of the production  |

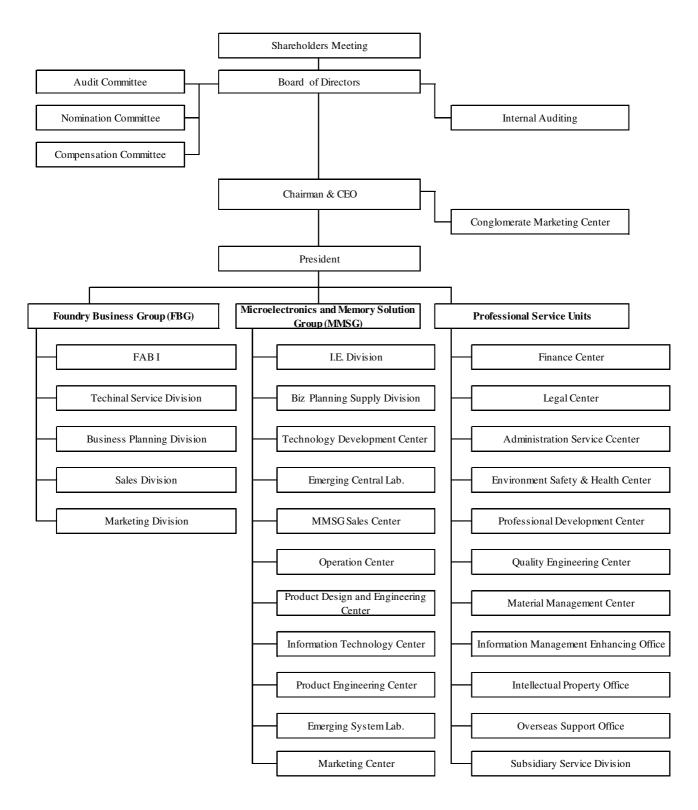
| Month/Year | Milestones  |
|------------|---|
| Jun. 2015  | • Macronix ranked among the top 5% excellent companies in the first corporate |
|            | governance evaluation of Listed Companies.                                    |
| Sep.       | • 55 nm 1.8V Serial Flash products delivered samples.                         |
| Nov.       | • Mr. Chih-Yuan Lu, President of Macronix was awarded with The World          |
|            | Academy of Sciences (TWAS) Prize in Engineering Sciences.                     |
| Feb. 2016  | Mass production of 55 nm 1.8V Serial Flash products.                          |
| Dec.       | • Mr. Miin Chyou Wu, Chairman & CEO of Macronix was awarded with              |
|            | Honorary Doctorate by National Cheng Kung University.                         |
| May. 2017  | • Capital reduction plan resolved by the annual shareholders meeting.         |
| Dec.       | • Mr. Chih-Yuan Lu, President of Macronix, was awarded with the 19th          |
|            | "Outstanding Performance Award in the Field of Management of Technology" of   |
|            | Chinese Society for Management of Technology.                                 |
|            | • Mr. Miin Chyou Wu, Chairman & CEO of Macronix, was awarded of Social        |
|            | Education Contribution Awards of the Ministry of Education.                   |
| Apr. 2018  | • Mr. Chih-Yuan Lu, President of Macronix was elected as Fellow of the US     |
|            | National Academy of Inventors.  |
| Jul.       | • Mr. Chih-Yuan Lu, President of Macronix was elected as Academician of       |
|            | Academia Sinica.  |
| Nov.       | Mr. Chih-Yuan Lu, President of Macronix was awarded with Materials            |
|            | Technology Contribution Award of Materials Research Society Taiwan.           |
|            | • Mr. Miin Chyou Wu, Chairman & CEO of Macronix was awarded with              |
|            | "Country Winner" and "Business Paradigm Entrepreneur" of EY Entrepreneur      |
|            | Of The Year.  |
| Feb. 2019  | Mass production of 19 nm 3V NAND Flash products.                              |
| Mar.       | • Donation of NT\$420 million to National Cheng Kung University for its       |
| Dec.       | construction of "Cheng Kung Innovation Center-MACRONIX Hall".                 |
|            | • Mr. Chih-Yuan Lu, President of Macronix was elected as Fellow of The World  |
|            | Academy of Sciences (TWAS) of 2020.   |
| May. 2020  | • Mr. Miin Chyou Wu, Chairman & CEO of Macronix was awarded                   |
| _          | withHonorary Doctorate by National Chiao Tung University.                     |
| Jun.       | • Donation of NT\$100 million to National Cheng Kung University per year for  |
|            | the next ten years to establish the "School of Computing".                    |
| Aug.       | • Sample delivery of 75 nm 1.2V Serial Flash products                         |
| Nov.       | Sample delivery of 19 nm 1.8V NAND Flash products                             |

(VII) CSR Milestones and Other Awards: Please refer to page 49 of this annual report.

# **Chapter III. Corporate Governance Report**

# I. Organization

#### (I) Organizational Structure



# (II) Responsibilities and Functions of Major Departments

| Unit  | Functions   |
|---|---|
| Internal Auditing                                       | Audit in accordance with the annual audit plan and responsible for integrating internal control assessments and recommendations.  |
| Conglomerate Marketing<br>Center                        | Responsible for developing and planning marketing strategies for Macronix and its affiliated companies.   |
| Microelectronics and<br>Memory Solution Group<br>(MMSG) | Responsible for the market analysis and planning for memory and microelectronics in line with the Macronix's development strategy, as well as the planning and leading related products' operation. It's also responsible for developing and/or control critical advanced technologies for the manufacture of high-quality products to be provided to Macronix's customers. |
| Foundry Business Group (FBG)                            | A business unit with marketing, manufacturing, and sales capacity to provide professional wafer foundry services to Macronix or third party.  |
| Professional Service Units                              | Responsible for finance, legal, administration, environmental safety & health, human resource, quality engineering and/or procurement as well as related services.  |

# II. Profile of Directors, Supervisors, the President, Vice Presidents, Assistant Managers, and Department Directors

(I) Directors and Supervisors

1. Profile of Directors and Supervisors

| Title    | Nationality<br>or Place of<br>registration | Name   | Gender | Date<br>Elected | Term<br>(yrs) | Date First<br>Elected | Shareholdin<br>Electo |         | Shares cu<br>held    | •     |      | e and<br>children | name o | eld in the | Education/<br>work<br>experience   | Other positions at the Company or elsewhere   | spous | isor who<br>e or a re-<br>second o | is the<br>lative<br>degree |
|----------|--|--|--------|-----------------|---------------|-----------------------|-----------------------|---------|----------------------|-------|------|-------------------|--------|------------|--|---|-------|------------------------------------|----------------------------|
| Chairman | R.O.C                                      | Miin Chyou Wu<br>(Note 1)                          | Male   | 2019.06.18      | 3             | 1989.11.25            | Shares 12,371,859     | 0.67%   | Shares<br>13,060,809 | 0.70% | None | % None            | None   | % None     | M.S. degree<br>in Material<br>Science and<br>Engineering<br>from<br>Stanford<br>University | Chairman & CEO of Macronix International Co., Ltd. Director of Macronix America, Inc. Director of Macronix (BVI) Co., Ltd. Representative (Director) of Hui Ying Investment Ltd. Representative (Director) of Run Hong Investment Ltd. Chairman of Mxtran Inc. Director of Macronix Europe N.V. Director of Macronix (Hong Kong) Co., Ltd. Chairman of Macronix Microelectronics (Suzhou) Co., Ltd. Director of Macronix (Asia) Limited Managing Director of Eastern Electronics Co., Ltd.  | Title | Name                               | None                       |
|          | R.O.C                                      | Chien Hsu<br>Investment<br>Corporation<br>(Note 2) | -      | 2019.06.18      | 3             | 2016.06.16            | 811,421               | 0.04%   | 811,421              | 0.04% | None | None              | None   | None       | None   | Director of ZOWIE Technology Corporation<br>Director / supervisor of Homey Consulting Corp.   | None  | None                               | None                       |
| Director | R.O.C                                      | Representative:<br>Ching-Yun Li                    | Female | Omitted         | Omitted       | 2019.07.26            | Omitted               | Omitted | 1,441,799            | 0.08% | None | None              | None   | None       | Public<br>relations<br>from Shih<br>Hsin School<br>of Journalism                           | Chairman of Champion Investment Corporation<br>Chairman of Chien Hsu Investment Corporation<br>Representative (Chairman) of Homey Consulting<br>Corp.   | None  | None                               | None                       |
| Director | R.O.C                                      | Chih-Yuan Lu                                       | Male   | 2019.06.18      | 3             | 2003.04.18            | 2,300,395             | 0.12%   | 2,689,766            | 0.14% | None | None              | None   | None       | Ph.D. degree<br>in Physics<br>from   | President of Macronix International Co., Ltd. Chairman of Macronix America, Inc. Director of Macronix Europe N.V. Director of Macronix (Hong Kong) Co., Ltd. Chairman & CEO of Ardentec Corporation Director of Ardentec Korea Co., Ltd. Director of Ardentec Singapore Pte. Ltd. Representative (Chairman) of Sheng Tang Investment Co., Ltd. Representative (Chairman) of Ardentec Semiconductor Co. Ltd. Representative (Chairman) of Giga Solution Tech. Co., Ltd. Independent Director of Hong Tai Electric Industrial Co. Ltd. Director of ValuTest Incorporated Director of Valucom Investment Inc. Director of Feng Chia University | None  | None                               | None                       |

| Title    | Nationality<br>or Place of<br>registration | Name                                    | Gender | Date<br>Elected | Term<br>(yrs) | Date First<br>Elected |            | Shareholding When Elected |            | rrently | Shares spous underage | e and   |         | neld in the | Education/<br>work<br>experience  | Other positions at the Company or elsewhere   | Other officer, dire<br>supervisor who<br>spouse or a rel<br>within second d |         | is the lative |
|----------|--|---|--------|-----------------|---------------|-----------------------|------------|---------------------------|------------|---------|-----------------------|---------|---------|-------------|---|---|---|---------|---------------|
|          |  | ~ |        |                 |               |                       | Shares     | %                         | Shares     | %       | Shares                | %       | Shares  | %           |   |   | Title   | Name    | Relation      |
|          | R.O.C                                      | Shun Yin Investment Ltd.                | -      | 2019.06.18      | 3             | 2004.06.18            | 22,587,265 | 1.22%                     | 22,587,265 | 1.22%   | None                  | None    | None    | None        | None  | None  | None  | None    | None          |
| Director | Japan                                      | Representative:<br>Shigeki Matsuoka     | Male   | 2019.06.18      | 3             | 2011.08.08            | None       | None                      | None       | None    | None                  | None    | None    | None        | M.S. degree<br>in electronics<br>engineering<br>from Kyoto<br>University                                  | Adviser of MegaChips Corporation  | None  | None    | None          |
| Director | R.O.C                                      | Cheng-Yi Fang                           | Male   | 2019.06.18      | 3             | 2001.04.19            | 353,026    | 0.02%                     | 353,026    | 0.02%   | 129,047               | 0.01%   | None    | None        | B.B.A. degree in Business Administrati on Department from National Taiwan University                      | None  | None  | None    | None          |
| Director | R.O.C                                      | Chung-Laung Liu<br>(Note3)              | Male   | Omitted         | Omitted       | Omitted               | Omitted    | Omitted                   | Omitted    | Omitted | Omitted               | Omitted | Omitted | Omitted     | Omitted   | Omitted   | Omitted   | Omitted | Omitted       |
|          | R.O.C                                      | Achi Capital<br>Limited (Note4)         | -      | 2019.06.18      | 3             | 2010.06.09            | 902,456    | 0.05%                     | 902,456    | 0.05%   | None                  | None    | None    | None        | None  | Director of Mxtran Inc.   | None  | None    | None          |
| Director | R.O.C                                      | Representative:<br>Guei-Min Lee         | Female | Omitted         | Omitted       | 2007.06.29            | Omitted    | Omitted                   | 19,446     | 0.00%   | None                  | None    | None    | None        | Ph.D. degree<br>in Law,<br>University of<br>the Pacific   | Representative (Director) of Mxtran Inc.<br>Adjunct Professor of National Chiao Tung<br>University<br>Adjunct Associate Professor of Soochow<br>University                    | None  | None    | None          |
| Director | R.O.C                                      | Che-Ho Wei                              | Male   | 2019.06.18      | 3             | 2016.06.16            | None       | None                      | None       | None    | None                  | None    | None    | None        | Ph. D. degree<br>in electronic<br>engineering<br>from the<br>University of<br>Washington,<br>Seattle, USA | Director of Taipei Medical University Director of Arcadyan Technology Corporation Director of Unizyx Holding Corporation Independent Director of Sunplus Technology Co., Ltd. | None  | None    | None          |
| Director | R.O.C                                      | Dang-Hsing Yiu                          | Male   | 2019.06.18      | 3             | 1995.06.05            | 6,557,048  | 0.35%                     | 6,633,322  | 0.36%   | 1,272,084             | 0.07%   | None    | None        | M.S. degree<br>in Electronic<br>Engineering<br>from<br>University of<br>California,<br>Berkeley           | Senior V.P. & Chief Marketing Officer of Macronix International Co., Ltd.   | None  | None    | None          |
| Director | R.O.C                                      | Ful-Long Ni                             | Male   | 2019.06.18      | 3             | 2007.06.29            | 1,647,732  | 0.09%                     | 1,899,933  | 0.10%   | 340,333               | 0.02%   | None    | None        | M.S. degree<br>in Electronic<br>Engineering<br>from<br>University of<br>Michigan                          | Vice President of Macronix International<br>Co., Ltd.<br>Chairman of Macronix Europe N.V.<br>Director of Macronix Pte Ltd.<br>Director of Macronix (Hong Kong) Co., Ltd.      | None  | None    | None          |

| Title                   | Nationality<br>or Place of<br>registration | Name                                   | Gender | Date<br>Elected | Term<br>(yrs) | Date First<br>Elected | Shareholdin<br>Electe |         | Shares cu | -     | Shares spous underage | e and |        | eld in the | Education/<br>work<br>experience  | Other positions at the Company or elsewhere   | superv<br>spous | ficer, dir<br>isor who<br>e or a re-<br>second o | lative   |
|-------------------------|--|--|--------|-----------------|---------------|-----------------------|-----------------------|---------|-----------|-------|-----------------------|-------|--------|------------|---|---|-----------------|--|----------|
|                         |  |  |        |                 |               |                       | Shares                | %       | Shares %  |       | Shares                | %     | Shares | %          |   |   |                 | Name   | Relation |
|                         | R.O.C                                      | Hui Ying<br>Investment Ltd.<br>(Note5) | -      | 2019.06.18      | 3             | 2001.04.19            | 1,956,619             | 0.11%   | 1,956,619 | 0.11% | None                  | None  | None   | None       | None  | None  | None            | None   | None     |
| Director                | R.O.C                                      | Representative:<br>Pei-Fu Yeh          | Male   | Omitted         | Omitted       | 2007.07.18            | Omitted               | Omitted | 2,622,174 | 0.14% | 4,985                 | 0.00% | None   | None       | MBA, degree<br>in Business<br>Administrati<br>on,of<br>National<br>Chengchi<br>University | Vice President of Macronix International<br>Co., Ltd.<br>Director of New Trend Technology Inc.<br>Director of Macronix Europe N.V.<br>Director of Macronix (Hong Kong) Co., Ltd.<br>Representative (supervisor) of Mxtran Inc.  | None            | None   | None     |
| Independent<br>Director | R.O.C                                      | Tyzz-Jiun Duh                          | Male   | 2019.06.18      | 3             | 2019.06.18            | None                  | None    | None      | None  | None                  | None  | None   | None       | Ph.D.,<br>Institute of<br>Forestry,<br>National<br>Taiwan<br>University                   | Adjunct Associate Professor of Soochow University Independent Director of USI Corporation Independent Director of CHINA DEVELOPMENT FINANCIAL HOLDING CORP. Independent Director of CDIB Capital Group Director of Shinfox Energy Co., Ltd.   | None            | None   | None     |
| Independent<br>Director | R.O.C                                      | Chiang Kao                             | Male   | 2019.06.18      | 3             | 2007.06.29            | None                  | None    | None      | None  | None                  | None  | None   | None       | Ph.D. degree<br>in Forest<br>Management<br>from Oregon<br>State<br>University             | Chair Professor of Department of Industrial and Information Management of National Cheng Kung University  | None            | None   | None     |
| Independent<br>Director | R.O.C                                      | Yan-Kuin Su                            | Male   | 2019.06.18      | 3             | 2007.06.29            | None                  | None    | None      | None  | None                  | None  | None   | None       | in electrical<br>engineering<br>from<br>National<br>Cheng Kung<br>University              | Independent Director of Himax Technologies, Inc Independent Director of Epileds Technologies.Inc Independent Director of Universal Cement Corporation Honorary Professor of National Cheng Kung University Professor of Kun Shan University Chief Director of Kun Shan University Green Energy Technology Research Center | None            | None   | None     |
| Independent<br>Director | R.O.C                                      | John C.F. Chen                         |        | 2019.06.18      |               | 2007.06.29            | None                  | None    | None      | None  | None                  | None  | None   | None       | & Statistics from National  | Chairman of Chen Chow Investment Inc. Representative (Director) of Chan Chun Investment Inc. Representative (Director) of ReaLy Development & Construction Corp. Director of Diwan Investment Inc.  | None            | None   | None     |

Note 1: Where the chairman and president or equivalent position (the highest level managerial officer) is the same person, the reasonableness, necessity, and response measures must be disclosed:

Mr. Miin Chyou Wu founded Macronix in 1989 and served as its President, who has been elected as the Chairman since 2005 and successfully had Macronix become the global leader in non-volatile memory (NVM) with his forward-looking perspective and innovative business strategy. In 2019, he was elected as the chairman and CEO of the 11th-term Board of Directors. Considering that Macronix has four independent directors, and more than half of its directors are non-employees nor managers of Macronix, the independence of the Board of Directors can be ensured. Also, to continue the forward-looking and innovative business philosophy, and Macronix's worldwide reputation, image and competitiveness, it is necessary to have Chairman Miin Chyou Wu concurrently serving as Macronix's highest level manager (CEO) to improve operational efficiency and decision-making, and further enhance its value, which is therefore reasonable and necessary.

Note 2: Chien Hsu Investment Co., Ltd. appointed Ms. Ching-Yun Li on July 26, 2019, to attend the 11th Term of the Board of Directors and exercised any and all Director's rights thereof.

Note 3: Mr. Chung-Laung Liu passed away on November 7, 2020.

Note 4: Ms. Guei-Min Lee was appointed to represent it to attend the 11th Term of the Board of Directors and exercised any and all Director's rights thereof. Note 5: Mr. Pei-Fu Yeh was appointed to represent it to attend the 11th Term of the Board of Directors and exercised any and all Director's rights thereof.

# **Major Shareholders of Institutional Shareholders**

| Name of institutional shareholder | Major shareholders of institutional shareholders |
|-----------------------------------|--|
|                                   | Ching-Yun Li (46.08%)                            |
|                                   | Champion Investment Corporation (16.56%)         |
|                                   | Jui-Wen Hu (13.34%)                              |
|                                   | Ting-Chen Hu (13.34%)                            |
| Chian Hay Investment Corneration  | Chih-To Lee (4.04%)                              |
| Chien Hsu Investment Corporation  | Pao-Yueh Chang (1.94%)                           |
|                                   | Chih-Te Yeh (1.83%)                              |
|                                   | Guang-Hui Chu (1.75%)                            |
|                                   | Hsiu-Chu Lin (0.60%)                             |
|                                   | Mei-Chih Chen (0.52%)                            |
| Shun Yin Investment Ltd.          | MegaChips Corporation (Japan) (100%)             |
| Achi Capital Limited              | Top Harvest Investment Ltd. (Samoa) (100%)       |
| Hui Ying Investment Ltd.          | Macronix International Co., Ltd. (100%)          |

# Major Shareholders Who are Institutional Investors and Their Major Shareholders

|   | Wiaicii 50, 2021  |  |  |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|--|--|
| Name of institutional shareholder   | Major shareholders of institutional shareholders          |  |  |  |  |  |  |  |  |
|   | Ching-Yun Li (21.48%)                                     |  |  |  |  |  |  |  |  |
|   | Jui-Wen Hu (13.09%)                                       |  |  |  |  |  |  |  |  |
|   | Ting-Chen Hu (13.09%)                                     |  |  |  |  |  |  |  |  |
|   | Lin-Fang Li Hu (9.77%)                                    |  |  |  |  |  |  |  |  |
| Champion Investment Composition   | Tsung-Tsan Su (5.98%)                                     |  |  |  |  |  |  |  |  |
| Champion Investment Corporation   | Bands Technology Co., Ltd. (5.67%)                        |  |  |  |  |  |  |  |  |
|   | Hsiu-Tzu Chen (4.71%)                                     |  |  |  |  |  |  |  |  |
|   | Tsung-Shen Chen (4.71%)                                   |  |  |  |  |  |  |  |  |
|   | Chiu-Hua Tsai (4.12%)                                     |  |  |  |  |  |  |  |  |
|   | Chih-Hua Li (2.85%)                                       |  |  |  |  |  |  |  |  |
|   | State Street Bank and Trust Company 505253 (6.12%)        |  |  |  |  |  |  |  |  |
|   | Shindo Kogyo Corporation (5.70%)                          |  |  |  |  |  |  |  |  |
|   | Megachips Corporation and Associates (5.70%)              |  |  |  |  |  |  |  |  |
|   | Japan Trustee Services Bank, Ltd. (Trust Location No.)    |  |  |  |  |  |  |  |  |
|   | (4.09%)   |  |  |  |  |  |  |  |  |
| MegaChips Corporation (Japan)   | The Bank of New York Mellon 140051 (3.37%)                |  |  |  |  |  |  |  |  |
|   | Shigeki Matsuoka (2.76%)                                  |  |  |  |  |  |  |  |  |
|   | Akihiro Shindo (2.53%)                                    |  |  |  |  |  |  |  |  |
|   | Ritsuko Shindo (2.51%)                                    |  |  |  |  |  |  |  |  |
|   | Noriko Matsui (2.38%)                                     |  |  |  |  |  |  |  |  |
|   | Mika Aoki (2.32%)   |  |  |  |  |  |  |  |  |
| Top Harvest Investment Ltd. (Samoa).  | Guemin Lee (100%)   |  |  |  |  |  |  |  |  |
|   | New Labor Pension Fund (2.66%)                            |  |  |  |  |  |  |  |  |
|   | Cathay Life Insurance (2.37%)                             |  |  |  |  |  |  |  |  |
|   | Public Service Pension Fund Management Board (1.57%)      |  |  |  |  |  |  |  |  |
|   | Vanguard Emerging Markets Stock Index Fund a Series of    |  |  |  |  |  |  |  |  |
|   | Vanguard International Equity Index Funds (1.34%)         |  |  |  |  |  |  |  |  |
|   | JPMorgan Chase Bank N.A. Taipei Branch in custody for     |  |  |  |  |  |  |  |  |
| Macronix International Co., Ltd.  | Vanguard Total International Stock Index Fund a series of |  |  |  |  |  |  |  |  |
| What of the first |   |  |  |  |  |  |  |  |  |
|   | Vanguard Star Funds (1.23%)                               |  |  |  |  |  |  |  |  |
|   | Shun Yin Investment Ltd. (1.22%)                          |  |  |  |  |  |  |  |  |
|   | Syue-Rong Shen (1.17%)                                    |  |  |  |  |  |  |  |  |
|   | Allianz Glbl Inv Taiwan Tech (1.13%)                      |  |  |  |  |  |  |  |  |
|   | Old Labor Pension Fund (1.10%)                            |  |  |  |  |  |  |  |  |
|   | Miin Chyou Wu (0.70%)                                     |  |  |  |  |  |  |  |  |

#### 2. Professional Expertise and Independence of directors and supervisors

|   |   |   |   |             |          |             |          |          |          |          |             |             | 171         | arcn        | 50,         | 2021  |
|---|---|---|---|-------------|----------|-------------|----------|----------|----------|----------|-------------|-------------|-------------|-------------|-------------|---|
|   | Qualification I   | of the Following Pro<br>Requirements, Togo<br>e Years' Work Exp   | ether with at   |             |          | I           | ndep     | ende     | nce (    | Crite    | ria (l      | Note        | 4)          |             |             |   |
| Name  | An instructor or higher position in a department of commerce, law, finance, accounting, or other academic department related to the business needs of the | A judge, public<br>prosecutor,<br>attorney,<br>Certified Public<br>Accountant, or<br>other professional<br>or technical | Has work<br>experience<br>in the areas<br>of<br>commerce, | 1           | 2        | 3           | 4        | 5        | 6        | 7        | 8           | 9           | 10          | 11          | 12          | Number of<br>Other<br>Public<br>Companies<br>in which<br>Serves<br>Concurrentl<br>y as an<br>Independen<br>t director |
| Miin Chyou Wu   |   |   | ✓   |             |          |             |          |          | <b>√</b> |          | ✓           | ✓           | <b>✓</b>    | ✓           | <b>√</b>    | 0   |
| Chien Hsu<br>Investment<br>Corporation (Note<br>1)<br>Representative:<br>Ching-Yun Li |   |   |   | ~           |          | <b>✓</b>    | <b>✓</b> |          | ✓        | <b>✓</b> | ~           | ~           | <b>✓</b>    | <b>✓</b>    |             | 0   |
| Chih-Yuan Lu  | <b>√</b>  |   | ✓   |             |          | <b>√</b>    |          | <b>√</b> | <b>√</b> |          | <b>✓</b>    | <b>√</b>    | <b>✓</b>    | <b>√</b>    | <b>√</b>    | 1   |
| Shun Yin<br>Investment Ltd.<br>Representative :<br>Shigeki Matsuoka                   |   |   | <b>✓</b>  | <b>✓</b>    |          | <b>✓</b>    | <b>✓</b> | <b>✓</b> | <b>✓</b> | <b>√</b> | <b>✓</b>    | <b>✓</b>    | <b>✓</b>    | <b>✓</b>    |             | 0   |
| Cheng-Yi Fang   |   |   | ✓   | ✓           |          | ✓           | ✓        | ✓        | ✓        | ✓        | ✓           | ✓           | ✓           | ✓           | ✓           | 0   |
| Chung-Laung Liu<br>(Note 2)   | Omitted   |   | Omitted   | Omi<br>tted |          | Omi<br>tted |          |          |          |          | Omi<br>tted | Omi<br>tted | Omi<br>tted | Omi<br>tted | Omi<br>tted | Omitted   |
| Achi Capital<br>Limited<br>Representative :<br>Guei-Min Lee<br>(Note 3)               | <b>✓</b>  | <b>√</b>  | <b>✓</b>  | <b>✓</b>    |          | <b>✓</b>    | <b>~</b> | <b>✓</b> | <b>✓</b> |          | <b>✓</b>    |             | <b>✓</b>    | <b>✓</b>    |             | 0   |
| Che-Ho Wei  | ✓   |   | ✓   | ✓           |          | ✓           | ✓        | ✓        | ✓        |          | ✓           | ✓           | ✓           | ✓           | ✓           | 2   |
| Dang-Hsing Yiu  |   |   | ✓   |             |          | ✓           |          | ✓        | ✓        |          | ✓           | ✓           | ✓           | ✓           | ✓           | 1   |
| Ful-Long Ni   |   |   | ✓   |             |          | ✓           |          | ✓        | ✓        | ✓        | ✓           | ✓           | ✓           | ✓           | ✓           | 0   |
| Hui Ying<br>Investment Ltd.<br>Representative:<br>Pei-Fu Yeh<br>(Note 4)              |   |   | <b>✓</b>  |             |          | <b>✓</b>    |          | <b>✓</b> | <b>✓</b> |          | <b>✓</b>    | ✓           | <b>✓</b>    | <b>✓</b>    |             | 0   |
| Tyzz-Jiun Duh   | ✓   |   | ✓   | ✓           | ✓        | ✓           | ✓        | ✓        | ✓        | ✓        | ✓           | ✓           | ✓           | ✓           | ✓           | 3   |
| Chiang Kao  | ✓   |   | ✓   | ✓           | ✓        | ✓           | ✓        | ✓        | ✓        | ✓        | ✓           | ✓           | ✓           | ✓           | ✓           | 0   |
| Yan-Kuin Su   | ✓   | ✓   | ✓   | ✓           | <b>√</b> | ✓           | ✓        | ✓        | ✓        |          | ✓           | ✓           | ✓           | ✓           | ✓           | 1   |
| John C.F. Chen  |   | ✓   | ✓   | ✓           | ✓        | ✓           | ✓        | ✓        | ✓        | ✓        | ✓           | ✓           | ✓           | ✓           | ✓           | 0   |

John C.F. Chen

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\sqrt{\sq}}}}}}}}}} \sqrt{\sqrt{\sqnt{\sqnt{\sqnt{\sqrt{\sqrt{\sqn}}}}}}}} \sqrt{\sqrt{\sqnt{\sqnt{\sqnt{\sqnt{\sqnt{\sqnt{\sqnt{\sqnt{\sqnt{\sqnt{\sqnt{\sqnt{\sqnt{\sqnt{\sqrt{\sqnt{\sqrt{\sq}}}}}}}}}} \sqrt{\sqnt{\sqnt{\sqnt{\sqnt{\sqnt{\sqnt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}} \sqrt{\sqnt{\sinq}}}}}} \sqrt{\sqnt{\sqnt{\sqnt{\sq}\sqrt{\sq}}}}}} \sqintilesintitexend{\sqnt{\sqnt{\sqnt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{

Note 2: Mr. Chung-Laung Liu passed away on November 7, 2020

Note 3: Ms. Guei-Min Lee was appointed to represent it to attend the 11th Term of the Board of Directors and exercised any and all Director's rights thereof.

Note 4: Mr. Yeh-Pei Fu was appointed to represent it to attend the 11th Term of the Board of Directors and exercised any and all Director's rights thereof.

- Note 5: Please tick the corresponding boxes that apply to the directors or supervisors during the two years prior to being elected or during the term of office.
  - (1) Not an employee of the Company or any of its affiliates.
  - (2) Not a director or supervisor of the Company or an affiliated enterprise (does not apply to independent directors concurrently appointed by the Company or its parent company, subsidiary, or the subsidiary of the parent company pursuant to the Regulations Governing Appointment of Independent Directors and Compliance Matters for Public Companies or local laws and regulations).
  - (3) Not a natural-person shareholder who holds shares, together with those held by the person's spouse, minor children, or held by the person under others' names, in an aggregate amount of 1% or more of the total number of outstanding shares of the Company or ranking in the top 10 in holdings.
  - (4) Not a manager listed in (1) or a spouse, relative within the second degree of kinship, or lineal relative within the third degree of kinship of any of the above persons listed in (2) and (3).
  - (5) Not a director, supervisor, or employee of a corporate shareholder that directly holds 5% of the Company's total outstanding shares, is a top 5 shareholder, or appointed a representative to serve as the Company's director or supervisor in accordance with Article 27, Paragraph 1 or 2 of the Company Act (does not apply to independent directors concurrently appointed by the Company or its parent company, subsidiary, or the subsidiary of the parent company pursuant to the Regulations Governing Appointment of Independent Directors and Compliance Matters for Public Companies or local laws and regulations).
  - (6) Not a director, supervisor, or employee of a company controlled by a single person with over half of the Company's director seats or shares with voting rights (does not apply to independent directors concurrently appointed by the Company or its parent company, subsidiary, or the subsidiary of the parent company pursuant to the Regulations Governing Appointment of Independent Directors and Compliance Matters for Public Companies or local laws and regulations).
  - (7) Not a director, supervisor, or employee of another company or institution that is the same person or the spouse of the Company's chairperson, president, or equivalent position (does not apply to independent directors concurrently appointed by the Company or its parent company, subsidiary, or the subsidiary of the parent company pursuant to the Regulations Governing Appointment of Independent Directors and Compliance Matters for Public Companies or local laws and regulations).
  - (8) Not a director, supervisor, manager, or shareholder with 5% or more shares of a specific company or institution with financial or business dealings with the Company (does not apply to independent directors concurrently appointed by a specific company or institution that holds 20% or more but not more than 50% of the Company's outstanding shares, and the Company or its parent company, subsidiary, or the subsidiary of the parent company pursuant to the Regulations Governing Appointment of Independent Directors and Compliance Matters for Public Companies or local laws and regulations).
  - (9) Not a professional individual who, or an owner, partner, director, supervisor, or manager of a sole proprietorship, partnership, company or institution that provides commercial, legal, financial, accounting services or consultation with cumulative remuneration in the most recent two years not exceeding NT\$500,000 to the Company or to any affiliate of the company, or a spouse thereof. This does not apply to members of the compensation committee, public tender offer review committee, or merger and acquisition special committee that performs duties in accordance with the Securities Exchange Act or Business Mergers and Acquisitions Act.
  - (10) Not having a marital relationship, or a relative within the second degree of kinship to any other director of the Company.
  - (11) Not been a person of any conditions defined in Article 30 of the Company Law.
  - (12) Not a governmental, juridical person or its representative as defined in Article 27 of the Company Law.

| Title  | Nationality | Name                      | Gender | Date appointed | Shares currer |       | underage  | e and<br>children | name o |      | Education/work experience  | Other positions at the Company or elsewhere  | superviso<br>or a rela | officer, dir<br>or who is t<br>ative within<br>degree | he spouse<br>n second |
|--|-------------|---------------------------|--------|----------------|---------------|-------|-----------|-------------------|--------|------|--|--|------------------------|---|-----------------------|
|  |             |                           |        |                | Shares        | %     | Shares    | %                 | Shares | %    |  |  | Title                  | Name  | Relation              |
| CEO  | R.O.C       | Miin Chyou Wu<br>(Note 1) | Male   | 2007.07.30     | 13,060,809    | 0.70% | None      | None              | None   | None | M.S. degree in<br>Material Science and<br>Engineering from<br>Stanford University  | Director of Macronix America, Inc. Director of Macronix (BVI) Co., Ltd. Representative (Director) of Hui Ying Investment Ltd. Representative (Director) of Run Hong Investment Ltd. Chairman of Mxtran Inc. Director of Macronix Europe N.V. Director of Macronix (Hong Kong) Co., Ltd. Chairman of Macronix Microelectronics (Suzhou) Co., Ltd. Director of Macronix (Asia) Limited Managing Director of Eastern Electronics Co., Ltd.  | None                   | None  | None                  |
| President  | R.O.C       | Chih-Yuan Lu              | Male   | 2007.07.30     | 2,689,766     | 0.14% | None      | None              | None   | None | Ph.D. degree in<br>Physics from<br>Columbia University                             | Chairman of Macronix America, Inc. Director of Macronix Europe N.V. Director of Macronix (Hong Kong) Co., Ltd. Chairman & CEO of Ardentec Corporation Director of Ardentec Korea Co., Ltd. Director of Ardentec Singapore Pte. Ltd. Representative (Chairman) of Sheng Tang Investment Co., Ltd. Representative (Chairman) of Ardentec Semiconductor Co. Ltd. Representative (Chairman) of Giga Solution Tech. Co., Ltd. Independent Director of Hong Tai Electric Industrial Co., Ltd. Director of ValuTest Incorporated Director of Valucom Investment Inc. Director of Feng Chia University | None                   | None  | None                  |
| Senior Vice<br>President &<br>Chief Marketing<br>Officer | R.O.C       | Dang-Hsing Yiu            | Male   | 2007.01.01     | 6,633,322     | 0.36% | 1,272,084 | 0.07%             | None   | None | M.S. degree in Electronic Engineering from University of California, Berkeley      | Director of Macronix America, Inc. Representative (Director) of Mxtran Inc. Director of SiTime Corporation Independent Director of Chipbond Technology Corporation   | None                   | None  | None                  |
| Vice President   | R.O.C       | Ful-Long Ni               | Male   | 2006.06.27     | 1,899,933     | 0.10% | 340,333   | 0.02%             | None   | None | M.S. degree in Electronic Engineering from University of Michigan                  | Chairman of Macronix Europe N.V. Director of Macronix Pte Ltd. Director of Macronix (Hong Kong) Co., Ltd.  | None                   | None  | None                  |
| Vice President   | R.O.C       | Pei-Fu Yeh                | Male   | 2007.10.30     | 2,622,174     | 0.14% | 4,985     | 0.00%             | None   | None | MBA degree in<br>Business<br>Administration, of<br>National Chengchi<br>University | Director of New Trend Technology Inc. Director of Macronix Europe N.V. Director of Macronix (Hong Kong) Co., Ltd. Representative (supervisor) of Mxtran Inc.   | None                   | None  | None                  |

| Title                            | Nationality | Name                        | Gender | Date appointed | Shares curren | ntly held | Shares h<br>spouse<br>underage | e and   |         | eld in the<br>of others | Education/work experience                                     | Other positions at the Company or elsewhere | Other officer, director supervisor who is the story or a relative within sedegree |         | ne spouse |
|----------------------------------|-------------|-----------------------------|--------|----------------|---------------|-----------|--------------------------------|---------|---------|-------------------------|---|---|---|---------|-----------|
|                                  |             |                             |        |                | Shares        | %         | Shares                         | %       | Shares  | %                       |   |   | Title   | Name    | Relation  |
| Project<br>Executive<br>Director | R.O.C       | Chuan-Hsien Wen<br>(Note 3) | Male   | Omitted        | Omitted       | Omitted   | Omitted                        | Omitted | Omitted | Omitted                 | Omitted   | Omitted                                     | Omitted   | Omitted | Omitted   |
| Project<br>Executive<br>Director | R.O.C       | Hui-Chi Li                  | Male   | 2017.10.11     | 310,182       | 0.02%     | 3,066                          | 0.00%   | None    | None                    | M.S. degree in<br>Ceramic Engineering<br>of Alfred University |   | None  | None    | None      |

Note 1: Where the chairman and president or equivalent position (the highest level managerial officer) is the same person, the reasonableness, necessity, and response measures must be disclosed:

Mr. Miin Chyou Wu founded Macronix in 1989 and served as its President, who has been elected as the Chairman since 2005 and successfully had Macronix become the global leader in non-volatile memory (NVM) with his forward-looking perspective and innovative business strategy. In 2019, he was elected as the chairman and CEO of the 11th-term Board of Directors. Considering that Macronix has four independent directors, and more than half of its directors are non-employees nor managers of Macronix, the independence of the Board of Directors can be ensured. Also, to continue the forward-looking and innovative business philosophy, and Macronix's worldwide reputation, image and competitiveness, it is necessary to have Chairman Miin Chyou Wu concurrently serving as Macronix's highest level manager (CEO) to improve operational efficiency and decision-making, and further enhance its value, which is therefore reasonable and necessary.

Note 2: Promoted to Executive Director on April 28, 2020.

Note 3: Retired on March 5, 2021.

# III Remuneration of Directors, Supervisors, President, and Vice Presidents in the Most Recent Fiscal Year (I) Remuneration of Directors and Independent Directors

December 31, 2020 Unit: NT\$ thousands

|                         |   |             |  |                | Remun  | eration        |  |                |  | Ratio          | o of Total   | Releva         | ant Remunerat  | ion Receive    | ed by Director   | s Who ar    | e Also     | Employe   | es                          | Ratio          |  |   |
|-------------------------|---|-------------|--|----------------|--|----------------|--|----------------|--|----------------|--|----------------|--|----------------|--|-------------|------------|---|-----------------------------|----------------|--|---|
|                         |   | Base Com    | pensation (A)  |                | ace Pay (B)<br>ote 1)  | Compe          | rectors<br>nsation(C)<br>ote 2)                                | Allow          | ances (D)  | (A+B+0         | uneration<br>C+D) to Net<br>ome (%)                            | _              | Bonuses, and rances (E)  |                | nce Pay (F)<br>lote 1)   | Employ      |            | mpensation te 2)                                | on (G)                      | (A+B+C+        | pensation<br>D+E+F+G) to<br>come (%)                           | Remuneration received from  |
| Title                   | Name  | The Company | Companies<br>in the<br>consolidated<br>financial<br>statements | The<br>Company | Companies<br>in the<br>consolidated<br>financial<br>statements | The Con     |            | Compa<br>in the<br>consoli-<br>finan-<br>statem | ne<br>dated<br>cial<br>ents | The<br>Company | Companies<br>in the<br>consolidated<br>financial<br>statements | invested companies<br>other than<br>subsidiaries or the<br>parent company |
| Chairman                | Miin Chyou Wu   | 0           | 0  | 0              | 0  | 36,589         | 36,589   | 120            | 120  | 0.69%          | 0.69%  | 38,284         | 38,284   | 760            | 760  | Cash 57,000 | Stock<br>0 | Cash 57,000                                     | Stock<br>0                  | 2.49%          | 2.49%  | 0   |
| Director                | Chien Hsu Investment Corporation                                | 0           | 0  | 0              | 0  | 16,919         | 16,919   | 120            | 120  | 0.32%          | 0.32%  | 0              | 0  | 0              | 0  | 0           | 0          | 0   | 0                           | 0.32%          | 0.32%  | 0   |
| Director                | Chih-Yuan Lu  | 0           | 0  | 0              | 0  | 19,670         | 19,670   | 120            | 120  | 0.37%          | 0.37%  | 25,571         | 25,571   | 760            | 760  | 34,200      | 0          | 34,200  | 0                           | 1.51%          | 1.51%  | 39,680  |
| Director                | Shun Yin Investment<br>Ltd. Representative:<br>Shigeki Matsuoka | 0           | 0  | 0              | 0  | 16,919         | 16,919   | 120            | 120  | 0.32%          | 0.32%  | 0              | 0  | 0              | 0  | 0           | 0          | 0   | 0                           | 0.32%          | 0.32%  | 0   |
| Director                | Cheng-Yi Fang   | 0           | 0  | 0              | 0  | 5,640          | 5,640  | 120            | 120  | 0.11%          | 0.11%  | 0              | 0  | 0              | 0  | 0           | 0          | 0   | 0                           | 0.11%          | 0.11%  | 0   |
| Director                | Chung-Laung Liu (Note 3)  | 0           | 0  | 0              | 0  | 4,808          | 4,808  | 120            | 120  | 0.09%          | 0.09%  | 0              | 0  | 0              | 0  | 0           | 0          | 0   | 0                           | 0.09%          | 0.09%  | 0   |
| Director                | Achi Capital Limited  | 0           | 0  | 0              | 0  | 16,919         | 16,919   | 120            | 120  | 0.32%          | 0.32%  | 0              | 0  | 0              | 0  | 0           | 0          | 0   | 0                           | 0.32%          | 0.32%  | 0   |
| Director                | Dang-Hsing Yiu  | 0           | 0  | 0              | 0  | 5,640          | 5,640  | 120            | 120  | 0.11%          | 0.11%  | 11,152         | 11,152   | 760            | 760  | 7,600       | 0          | 7,600   | 0                           | 0.47%          | 0.47%  | 0   |
| Director                | Ful-Long Ni   | 0           | 0  | 0              | 0  | 5,640          | 5,640  | 120            | 120  | 0.11%          | 0.11%  | 17,189         | 17,189   | 760            | 760  | 19,000      | 0          | 19,000  | 0                           | 0.80%          | 0.80%  | 0   |
| Director                | Hui Ying Investment<br>Ltd.                                     | 0           | 0  | 0              | 0  | 5,640          | 5,640  | 120            | 120  | 0.11%          | 0.11%  | 0              | 0  | 0              | 0  | 0           | 0          | 0   | 0                           | 0.11%          | 0.11%  | 0   |
| Director                | Che-Ho Wei  | 0           | 0  | 0              | 0  | 5,640          | 5,640  | 120            | 120  | 0.11%          | 0.11%  | 0              | 0  | 0              | 0  | 0           | 0          | 0   | 0                           | 0.11%          | 0.11%  | 0   |
| Independent<br>Director | Tyzz-Jiun Duh   | 3,600       | 3,600  | 0              | 0  | 0              | 0  | 120            | 120  | 0.07%          | 0.07%  | 0              | 0  | 0              | 0  | 0           | 0          | 0   | 0                           | 0.07%          | 0.07%  | 0   |
| Independent<br>Director | Chiang Kao  | 3,600       | 3,600  | 0              | 0  | 0              | 0  | 120            | 120  | 0.07%          | 0.07%  | 0              | 0  | 0              | 0  | 0           | 0          | 0   | 0                           | 0.07%          | 0.07%  | 0   |
| Independent<br>Director | Yan-Kuin Su   | 3,600       | 3,600  | 0              | 0  | 0              | 0  | 120            | 120  | 0.07%          | 0.07%  | 0              | 0  | 0              | 0  | 0           | 0          | 0   | 0                           | 0.07%          | 0.07%  | 0   |
| Independent<br>Director | John C.F. Chen  | 3,600       | 3,600  | 0              | 0  | 0              | 0  | 120            | 120  | 0.07%          | 0.07%  | 0              | 0  | 0              | 0  | 0           | 0          | 0   | 0                           | 0.07%          | 0.07%  | 0   |

<sup>.</sup> Please describe the policy, system, standard, and structure of remuneration to independent directors, and the correlation between duties, risk, and time input with the amount of remuneration:

The Board of Directors is authorized to determine the remuneration of independent directors based on participation in the Company's operations, value of contributions, and domestic and overseas industry standards in accordance with the Articles of Incorporation. The independent director's remuneration is a fixed monthly remuneration and does not participate in the company's earnings distribution

<sup>2.</sup> Other than as disclosed in the above table, the remuneration earned by Directors providing services (e.g. providing consulting services as a non-employee) to the Company and all consolidated entities in the latest fiscal year: None.

Note 1: Estimated amount.

Note 2: Proposed amount.

Note 3: Mr. Chung-Laung Liu passed away on November 7, 2020.

Note 4: Explanation of the correlation and rationality of changes in the after tax profit and loss and remuneration.

<sup>(1)</sup> The Company's 2019 net profit after tax was NT\$3,011,960,000. The net profit for 2020 was NT\$5,326,083,000. According to the Articles of Incorporation, bonuses are distributed to Directors and employees as incentive (proposed amount). The Company's net profit after tax for 2020 increase from 2019, which was in line with the increase in the "Remuneration of Directors" and "Relevant Remuneration Received by Directors Who are Also Employees."

<sup>(2)</sup> The Company's shares distribution is calculated while taking the industry standard, duration of employment for directors (and representatives), and actual participation and contributions into consideration. The remuneration is reasonable.

|   |                  | Sal            | Salary (A)                                       |             | nce Pay (B)<br>(ote 1)                           |             | uses and<br>ances (C)                            | Emplo   |       | te 2)  | (A+B+C+D) to net income (%) |             | Remuneration received from                       |  |
|---|------------------|----------------|--|-------------|--|-------------|--|---------|-------|--|-----------------------------|-------------|--|--|
| Title   | Name             | The<br>Company | Companies<br>in the<br>consolidated<br>financial | The Company | Companies<br>in the<br>consolidated<br>financial | The Company | Companies<br>in the<br>consolidated<br>financial | The Cor | mpany | Compa<br>in the<br>consoli<br>finand<br>statem | dated<br>cial               | The Company | Companies<br>in the<br>consolidated<br>financial | invested<br>companies<br>other than<br>subsidiaries<br>or the parent |
|   |                  |                | statements                                       |             | statements                                       |             | statements                                       | Cash    | Stock | Cash   | Stock                       |             | statements                                       | company  |
| CEO   | Miin Chyou Wu    |                |  |             |  |             |  |         |       |  |                             |             |  |  |
| President                                       | Chih-Yuan Lu     |                |  |             |  |             |  |         |       |  |                             |             |  |  |
| Senior Vice President & Chief Marketing Officer | Dang-Hsing Yiu   |                |  |             |  |             |  |         |       |  |                             |             |  |  |
| Vice President                                  | Ful-Long Ni      |                |  |             |  |             |  |         |       |  |                             |             |  |  |
| Vice President                                  | Pei-Fu Yeh       | 63,286         | 63,286   | 6,835       | 6,835  | 99,432      | 99,432   | 188,860 | 0     | 188,860  | 0                           | 6.73%       | 6.73%  | 39,680   |
| Vice President                                  | Yen-Hie Chao     |                |  |             |  |             |  |         |       |  |                             |             |  |  |
| Vice President                                  | Chun-Hsiung Hung |                |  |             |  |             |  |         |       |  |                             |             |  |  |
| Vice President                                  | Jui-Kun Chen     | ]              |  |             |  |             |  |         |       |  |                             |             |  |  |
| Vice President                                  | Jon-Ten Chung    |                |  |             |  |             |  |         |       |  |                             |             |  |  |

Note 1: Estimated amount. Note 2: Proposed amount

# Range of Remuneration for Presidents and Vice Presidents

| Range of Remuneration Paid to                                | Name of President   | and Vice Presidents   |
|--|---|---|
| Each President and Vice<br>President                         | The Company   | Companies in the consolidated financial statements (Note)     |
| Under NT\$ 1,000,000   |   |   |
| NT\$1,000,000 (inclusive) –<br>NT\$2,000,000 (exclusive)     |   |   |
| NT\$2,000,000 (inclusive) –<br>NT\$3,500,000 (exclusive)     |   |   |
| NT\$3,500,000 (inclusive) –<br>NT\$5,000,000 (exclusive)     |   |   |
| NT\$5,000,000 (inclusive) –<br>NT\$10,000,000 (exclusive)    |   |   |
| NT\$10,000,000 (inclusive) –<br>NT\$ 15,000,000 (exclusive)  |   |   |
| NT\$15,000,000 (inclusive) –<br>NT\$ 30,000,000 (exclusive)  | Dang-Hsing Yiu / Pei-Fu Yeh /<br>Yen-Hie Chao / Jon-Ten Chung | Dang-Hsing Yiu / Pei-Fu Yeh /<br>Yen-Hie Chao / Jon-Ten Chung |
| NT\$30,000,000 (inclusive) –<br>NT\$ 50,000,000 (exclusive)  | Ful-Long Ni / Chun-Hsiung Hung / Jui-Kun Chen                 | Ful-Long Ni / Chun-Hsiung Hung / Jui-Kun Chen                 |
| NT\$50,000,000 (inclusive) –<br>NT\$ 100,000,000 (exclusive) | Miin Chyou Wu / Chih-Yuan Lu                                  | Miin Chyou Wu   |
| Over NT\$100,000,000   |   | Chih-Yuan Lu  |
| Total  | 9   | 9   |

Note: The total amount of A+B+C+D and remuneration received from subsidiaries or the parent company other than invested companies.

# (III). Employees Compensation Distributed to Management Team

December 31, 2020 Unit: NT\$ thousands

|          | Title   | Name                       | Stock<br>(Fair<br>Market<br>Value) | Cash<br>(Note 1) | Total   | Ratio of<br>Total<br>Amount to<br>Net Income<br>(%) |
|----------|---|----------------------------|------------------------------------|------------------|---------|---|
|          | CEO   | Miin Chyou Wu              |                                    |                  |         |   |
|          | President                                       | Chih-Yuan Lu               |                                    |                  |         |   |
|          | Senior Vice President & Chief Marketing Officer | Dang-Hsing Yiu             |                                    |                  |         |   |
|          | Vice President                                  | Ful-Long Ni                |                                    |                  |         |   |
|          | Vice President                                  | Pei-Fu Yeh                 |                                    |                  |         |   |
|          | Vice President                                  | Yen-Hie Chao               |                                    |                  |         |   |
|          | Vice President                                  | Chun-Hsiung Hung           |                                    |                  |         |   |
| Managers | Vice President                                  | Jui-Kun Chen               | 0                                  | 237,500          | 237,500 | 4.46%   |
| Managers | Vice President                                  | Jon-Ten Chung              | U                                  | 237,300          | 237,300 | 4.40 /0   |
|          | Associate V.P.                                  | Guang-Chao Chen            |                                    |                  |         |   |
|          | Executive Director                              | Wen-Bin Lu                 |                                    |                  |         |   |
|          | Executive Director                              | Hsin-Cheng Liu (Note 2)    |                                    |                  |         |   |
|          | Executive Director                              | Kai-Wen Tu (Note 2)        |                                    |                  |         |   |
|          | Executive Director                              | Ting-Chang Lin (Note 2)    |                                    |                  |         |   |
|          | Executive Director                              | Kun-Lung Chang<br>(Note 2) |                                    |                  |         |   |
|          | Project Executive<br>Director                   | Hui-Ji Li                  |                                    |                  |         |   |

Note 1: Proposed amount

Note 2: Promoted to Executive Director on April 28, 2020

- (IV) The Ratio of Total Remuneration Paid by the Company and by All Companies Included in the Consolidated Financial Statements for the Two Most Recent Fiscal Years to Directors, Supervisors, President and Vice Presidents of the Company, to the Net Income as Well as the Policies, Standards, and Portfolios for the Payment of Remuneration, the Procedures for Determining Remuneration, and the Correlation with Risks and Business Performance
  - 1. The ratio of the total remuneration paid by the Company and by all companies included in the consolidated financial statements for the two most recent fiscal years to directors, supervisors, president and vice presidents of the Company, to the net income.

|                                   | 20          | 019  | 2020        |  |  |  |
|-----------------------------------|-------------|--|-------------|--|--|--|
|                                   | The Company | Companies in the consolidated financial statements | The Company | Companies in the consolidated financial statements |  |  |
| Directors                         | 2.89%       | 2.89%  | 2.93%       | 2.93%  |  |  |
| Presidents and Vice<br>Presidents | 6.35%       | 6.35%  | 6.73%       | 6.73%  |  |  |

- 2. The policy, standards and packages of remunerations, the procedures for such decisions and relation to business performance and future risks.
  - (1) Remuneration to the Company's directors and managers are distributed in accordance with the Articles of Incorporation and the law, after referring to industry standards in Taiwan and overseas, the length of the tenure of related members, actual participation, and contributions. Remunerations are summarized below:
    - Independent Director: Receives NT\$300,000 and travel allowance on a monthly basis regardless of the Company's profit or loss, but does not participate in earning distribution.
    - Non-Independent Director: Calculated and distributed based on the director's (including representatives) performance evaluation items (e.g. attendance in Board meetings and shareholders' meetings and continuing education), length of tenure, actual participation, and contributions in accordance with the Company's Articles of Incorporation and the law, after referring to industry standards in Taiwan and overseas, provided that it does not exceed 2% of profits after deducting accumulated losses.
  - (2) Transportation allowance for directors: NT\$10,000 per month.
  - (3) Compensation for managers: Reviewed and approved by the Compensation Committee after referencing manager performance evaluation items, which include financial indicators (e.g. revenue and EPS) and non-financial indicators (e.g. decision-making ability and performance improvement), and submitted to the Board of Directors for resolution.
  - (4) Others: With consideration to future changes in the economic environment, remuneration paid to our management team will be carefully established in accordance with the law, based on business performance and future risks, as well as industry standards in Taiwan and overseas.

# **IV.** Implementation of Corporate Governance

### (I) Board of Directors

A total of 7 (A) meetings of the Board of Directors were held in the previous period. The attendance of director and supervisor were as follows:

| Title                   | Name  | Attendance in Person (B) | By<br>Proxy | Attendance Rate<br>(%)(B/A)<br>(Note 1) | Remarks                               |
|-------------------------|---|--------------------------|-------------|---|---------------------------------------|
| Chairman                | Miin Chyou Wu   | 7                        | 0           | 100%                                    |                                       |
| Director                | Chien Hsu Investment Corporation<br>Representative: Ching-Yun Li (Note 2) | 7                        | 0           | 100%                                    |                                       |
| Director                | Chih-Yuan Lu  | 7                        | 0           | 100%                                    |                                       |
| Director                | Shun Yin Investment Ltd. Representative: Shigeki Matsuoka                 | 7                        | 0           | 100%                                    |                                       |
| Director                | Cheng-Yi Fang   | 5                        | 2           | 71%                                     |                                       |
| Director                | Chung-Laung Liu (Note 3)  | 5                        | 1           | 83%                                     | Passed away<br>on November<br>7, 2020 |
| Director                | Achi Capital Limited<br>Representative: Guei-Min Lee (Note 4)             | 6                        | 0           | 86%                                     |                                       |
| Director                | Che-Ho Wei  | 7                        | 0           | 100%                                    |                                       |
| Director                | Dang-Hsing Yiu  | 7                        | 0           | 100%                                    |                                       |
| Director                | Ful-Long Ni   | 7                        | 0           | 100%                                    |                                       |
| Director                | Hui Ying Investment Ltd. Representative: Pei-Fu Yeh (Note 5)              | 7                        | 0           | 100%                                    |                                       |
| Independent<br>Director | Tyzz-Jiun Duh   | 7                        | 0           | 100%                                    |                                       |
| Independent<br>Director | Chiang Kao  | 6                        | 1           | 86%                                     |                                       |
| Independent<br>Director | Yan-Kuin Su   | 7                        | 0           | 100%                                    |                                       |
| Independent<br>Director | John C.F. Chen  | 7                        | 0           | 100%                                    |                                       |

Other items that shall be recorded:

- I. If any of the following circumstances occur to the operation of the Board of Directors, the date of the meeting, session, content of the motion, all independent directors' opinions, and the Company's response to independent directors' opinions should be specified:
  - (I) Matters referred to in Article 14-3 of the Securities and Exchange Act.

| Board of Directors<br>Date/ Term   | Motion   | Independent<br>Directors'<br>Opinions | The Company's Response to Independent Directors' Opinions |
|--|--|---------------------------------------|---|
| 2020.02.17 The 4th meeting of the 11th Term of the Board of Directors          | Submitted for approval of 2020 annual incentive bonus of the Company Managers.   | Approved                              | Not applicable  |
| 2020.03.06<br>The 5th meeting of<br>the 11th Term of the<br>Board of Directors | Approval of fund raising by issuance of new shares, overseas depositary receipts through cash capital increase, and/or the private placement of common shares and/or domestic or overseas convertible bonds.   | Approved                              | Not applicable  |
| 2020.04.28<br>The 6th meeting of<br>the 11th Term of the<br>Board of Directors | Pursuant to the amendments of applicable regulations, it is hereby proposed to amend the Company's Internal Control System for Shareholders Services Process.  | Approved                              | Not applicable  |
| 2020.07.28<br>The 8th meeting of   | Submitted for approval of the 2019 employee bonus to be distributed to the managers as defined under Company Law and/or Securities and Exchange Act ("Company Managers").  | Approved                              | Not applicable  |
| the 11th Term of the<br>Board of Directors                                     | Submitted for approval of the 2020 salary adjustment of the Company Managers ("Adjustments").  | Approved                              | Not applicable  |
|  | Submitted for approval of 2021 annual incentive bonus of the Company Managers.   | Approved                              | Not applicable  |
| 2020.10.26<br>The 9th meeting of<br>the 11th Term of the<br>Board of Directors | Approval of the engagement of Tung Hui Yeh and Kuo Tyan Hong (with Deloitte & Touche) starting from Q3, 2020 as the Company's Independent Auditors for the financial and/or tax matters, in replacement of Tung Hui Yeh and Benjamin Shin of the same firm, as resolved and proposed by the Audit Committee. | Approved                              | Not applicable  |
| 2020.12.24<br>The 10th meeting of  | Submitted for approval of the Company's financial and tax accountants for Year 2021 resolved by the Audit Committee.   | Approved                              | Not applicable  |
| the 11th Term of the<br>Board of Directors                                     | Submitted for approval of the fees and expenses of CPAs for Year 2021 resolved by the Audit Committee.   | Approved                              | Not applicable  |

- (II) In addition to the aforementioned matters, other motions resolved by the Board of Directors that are objected to by Independent Directors or expressed reservations and recorded or declared in writing: None.
- II. If there is Directors' avoidance of motions in conflicts of interest, the Directors' names, content of the motion, causes of avoiding conflicts of interest, and the voting participation should be specified:

| Name of Directors who avoid interest  | Motion   | Causes of avoiding conflicts of interest | Voting participation   |
|---|--|--|--|
| Miin Chyou Wu, Chih-<br>Yuan Lu, Dang-Hsing Yiu,<br>Ful-Long Ni, the<br>representative of Hui Ying<br>Investment, Ltd., Pei-Fu<br>Yeh | Submitted for the approval of 2019 Performance Assessments Report of the Managers.   | Related persons                          | Recusal and<br>no<br>participation<br>in the<br>resolution by<br>proxy |
| Miin Chyou Wu, Chih-<br>Yuan Lu, Dang-Hsing Yiu,<br>Ful-Long Ni, the<br>representative of Hui Ying<br>Investment, Ltd., Pei-Fu<br>Yeh | Submitted for approval of 2020 annual incentive bonus of the Company Managers.   | Related persons                          | Recusal and<br>no<br>participation<br>in the<br>resolution by<br>proxy |
| Dang-Hsing Yiu, Ful-Long<br>Ni, the representative of<br>Hui Ying Investment, Ltd.,<br>Pei-Fu Yeh                                     | Submitted for approval of the compensation package of new Executive Directors, Mr. H.C. Liu, Kevin Tu, D.J. Lin and K.L. Chang.                      | Related persons                          | Recusal and<br>no<br>participation<br>in the<br>resolution by<br>proxy |
| Miin Chyou Wu, Chih-<br>Yuan Lu, Dang-Hsing Yiu,<br>Ful-Long Ni, the<br>representative of Hui Ying<br>Investment, Ltd., Pei-Fu<br>Yeh | Submitted for approval of the 2019 employee bonus to be distributed to the managers as defined under Company Law and/or Securities and Exchange Act. | Related persons                          | Recusal and<br>no<br>participation<br>in the<br>resolution by<br>proxy |
| Miin Chyou Wu, Chih-<br>Yuan Lu, Dang-Hsing Yiu,<br>Ful-Long Ni, the<br>representative of Hui Ying<br>Investment, Ltd., Pei-Fu<br>Yeh | Submitted for approval of the 2020 salary adjustment of the Company Managers   | Related persons                          | Recusal and<br>no<br>participation<br>in the<br>resolution by<br>proxy |
| Miin Chyou Wu, Chih-<br>Yuan Lu, Dang-Hsing Yiu,<br>Ful-Long Ni, the<br>representative of Hui Ying<br>Investment, Ltd., Pei-Fu<br>Yeh | Submitted for approval of the 2021 annual incentive bonus of the Company Managers.   | Related persons                          | Recusal and<br>no<br>participation<br>in the<br>resolution by<br>proxy |

#### III. Evaluation of the board of directors:

| Assessme<br>nt<br>cycle       | Assessme<br>nt<br>period                      | Assessment scope                            | Assessment method   | Assessment content  | Evaluation result                     |
|-------------------------------|---|---|---|---|---------------------------------------|
| Performed<br>once per<br>year | January 1,<br>2020 to<br>December<br>31, 2020 | Entire Board of Directors                   | Self-<br>assessment of<br>the board of<br>directors                   | <ol> <li>Participation in the Company's Operations</li> <li>Raising the Quality of the Board of Directors' Decisions</li> <li>Composition and Structure of the Board of Directors</li> <li>Election and Continuing Education of Directors</li> <li>Internal controls</li> </ol>   | Overall<br>average 4.83<br>(out of 5) |
| Performed once per year       | January 1,<br>2020 to<br>December<br>31, 2020 | each member<br>of the board<br>of directors | Self-<br>assessment of<br>each member<br>of the board<br>of directors | <ol> <li>Understanding of<br/>the Company's<br/>Objectives and<br/>Tasks</li> <li>Directors'<br/>Responsibilities</li> <li>Participation in the<br/>Company's<br/>Operations</li> <li>Management and<br/>Communication of<br/>Internal Relations</li> <li>Directors' Expertise<br/>and Continuing<br/>Education</li> <li>Internal controls</li> </ol> | Overall average<br>4.83<br>(out of 5) |
| Performed<br>once per<br>year | January 1,<br>2020 to<br>December<br>31, 2020 | the Audit<br>Committee                      | Self-<br>assessment of<br>the Audit<br>Committee                      | <ol> <li>Participation in the Company's Operations</li> <li>Audit Committee's Responsibilities</li> <li>Raising the Quality of the Audit Committee's Decisions</li> <li>Composition and Membership of the Audit Committee</li> <li>Internal controls</li> </ol>   | Overall average<br>4.97<br>(out of 5) |
| Performed<br>once per<br>year | January 1,<br>2020 to<br>December<br>31, 2020 | the<br>Compensation<br>Committee            | Self-<br>assessment of<br>the<br>Compensation<br>Committee            | <ol> <li>Participation in the Company's Operations</li> <li>Compensation Committee's Responsibilities</li> <li>Raising the Quality of the Compensation Committee's</li> </ol>   | Overall average 5.00 (out of 5)       |

| Performed once per year   | January 1,<br>2020 to<br>December<br>31, 2020 | the<br>Nomination<br>Committee | Self-<br>assessment of<br>the<br>Nomination<br>Committee    | Decisions 4. Composition and Membership of the Compensation Committee 1. Participation in the Company's Operations 2. Nomination Committee's Responsibilities 3. Raising the Quality of the Nomination Committee's Decisions 4. Composition and Membership of the Nomination Committee  The report the 2020 External Bo   | 5)  |
|---------------------------|---|--------------------------------|---|---|---|
| Performed once three year | January 1,<br>2020 to<br>December<br>31, 2020 | Overall Board of Directors     | Evaluation by<br>an External<br>Professional<br>Institution | 1. Composition of the Board of Directors 2. Guidance from the Board of Directors 3. Authorization of the Board of Directors 4. Supervision of the Board of Directors 5. Communication of the Board of Directors 6. Internal Controls and Risk Management 7. Self-discipline of the Board of Directors 8. Others, such as Board meetings and support system  External Bor Performanc Evaluation conducted I Taiwan Corporate Governance Association summarized below: 1. Director training i taken ser and direct continuir education plans are diverse a help new directors become familiar the Compusiness. 2. KPI for manager set based the annuplan, and reward strategy establish based on industry | e by e is is is iously tor ig n and with bany's is is i on al i the is ed |

|  |  | and            |
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|  |  | encourages     |
|  |  | senior         |
|  |  | executives to  |
|  |  | jointly pursue |
|  |  | the Company's  |
|  |  | sustainable    |
|  |  | development.   |
|  |  | 3. The Ethical |
|  |  | Corporate      |
|  |  | Management     |
|  |  | Committee is   |
|  |  | functioning    |
|  |  | properly.      |

IV. Measures taken to strengthen the functions of the Board (for example, establishing an Audit Committee and enhancing information transparency) for the current year and the most recent year and the implementation:

The Company has functional committees, including the Audit Committees, Compensation Committees and Nomination Committees, to review and resolve proposals within its authority and to submit to the Board of Directors for decision to enhance supervision and strengthen management. Board members continue to participate in continuing education to enhance their professional knowledge as well as communication to improve the Board's performance. In order to encourage the Directors to continue studies, the Company regularly arranges corporate governance courses and provides course information from external institutions for the Directors' reference. Please refer to page 58 of this annual report for the Company's Director training in the most recent year.

- Note 1: A total of 7 meetings were convened by the Board of Directors in the most recent year. Attendance rate (%) is calculated based on the number of meetings convened by the Board of Directors and attendance.
- Note 2: Chien Hsu Investment Co., Ltd. appointed Ms. Ching-Yun Li on July 26, 2019, to attend the 11th Term of the Board of Directors and exercised any and all Director's rights thereof.
- Note 3: Mr. Chung-Laung Liu passed away on November 7, 2020
- Note 4: Ms. Guei-Min Lee was appointed to represent it to attend the 11th Term of the Board of Directors and exercised any and all Director's rights thereof.
- Note 5: Mr. Pei-Fu Yeh was appointed to represent it to attend the 11th Term of the Board of Directors and exercised any and all Director's rights thereof.

#### (II) Audit Committee

The Company's Audit Committee is comprised of four independent directors to carry out supervision under applicable laws and regulations, including ensuring proper statements of the Company's financial reports, engaging or dismissal of auditing CPAs and their independence as well as performance, effective implementation of internal audit, compliance of applicable laws and regulations, and control of the Company's existing and potential risks. In the most recent year, the following have been duly reviewed and resolved by the Audit Committee:

- 1. Assessment of the internal control system and efficiency.
- 2. The offering, issuance, or private placement of equity securities.
- 3. Engaging and/or dismissal of auditing CPA and the compensation.
- 4. Annual financial reports.
- 5. Business report and earnings distribution

A total of 6 (A) Audit Committee meetings were held in the most recent year. The attendance of the independent directors was as follows:

| Title                   | Name           | Attendance in Person (B) | By<br>Proxy | Attendance Rate (%)(B/A) | Remarks |
|-------------------------|----------------|--------------------------|-------------|--------------------------|---------|
| Independent<br>Director | Tyzz-Jiun Duh  | 6                        | 0           | 100%                     |         |
| Independent<br>Director | Chiang Kao     | 6                        | 0           | 100%                     |         |
| Independent<br>Director | Yan-Kuin Su    | 6                        | 0           | 100%                     |         |
| Independent<br>Director | John C.F. Chen | 6                        | 0           | 100%                     |         |

#### Other items that shall be recorded:

- I. When one of the following situations has occurred to the operations of the Audit Committee, the date, term, and agenda of the Board of Directors, resolution of the Audit Committee, and the Company's response to the comments of the Audit Committee shall be stated:
  - (I) Items specified in Article 14-5 of the Securities and Exchange Act

| Board of Directors<br>Date/ Term  | Motion   | Resolution results of<br>the Audit Committee  | The Company's response to the comments of the Audit Committee |
|---|--|---|---|
| 2020.02.17<br>The 4th meeting of<br>the 11th Term of<br>the Board of<br>Directors | 2019 Financial Statements  | Unanimously approved by all members attending the meeting and will be submitted to the Board of Directors meeting for approval. | Not applicable  |
| 2020.03.06<br>The 5th meeting of<br>the 11th Term of the<br>Board of Directors    | Approval of fund raising by issuance of new shares, overseas depositary receipts through cash capital increase, and/or the private placement of common shares and/or domestic or overseas convertible bonds. | Unanimously approved by all members attending the meeting and will be submitted to the Board of Directors meeting for approval. | Not applicable  |

| Board of Directors<br>Date/ Term  | Motion   | Resolution results of<br>the Audit Committee  | The Company's response to the comments of the Audit Committee |
|---|--|---|---|
| 2020.04.28<br>The 6th meeting of<br>the 11th Term of<br>the Board of<br>Directors | Pursuant to the amendments of applicable regulations, it is hereby proposed to amend the Company's Internal Control System for Shareholders Services Process.  | Unanimously approved by all members attending the meeting and will be submitted to the Board of Directors meeting for approval. | Not applicable  |
| 2020.10.26<br>The 9th meeting of<br>the 11th Term of<br>the Board of<br>Directors | Approval of the appointment of Tung Hui Yeh and Kuo Tyan Hong (from Deloitte & Touche) starting from Q3, 2020 as the Company's Independent Auditors for the financial and/or tax matters, in replacement of Tung Hui Yeh and Benjamin Shih of the same firm, according to the resolution of the Audit Committee. | Unanimously approved by all members attending the meeting and will be submitted to the Board of Directors meeting for approval. | Not applicable  |
| 2020.12.24<br>The 10th meeting<br>of the 11th Term of                             | Submitted for approval of<br>the Company's financial<br>and tax accountants for<br>Year 2021, according to<br>the resolution of the Audit<br>Committee.  | Unanimously approved by all members attending the meeting and will be submitted to the Board of Directors meeting for approval. | Not applicable  |
| the Board of Directors  | Submitted for approval of<br>the fees and expenses of<br>CPAs for Year 2021,<br>according to the<br>resolution of the Audit<br>Committee.  | Unanimously approved by all members attending the meeting and will be submitted to the Board of Directors meeting for approval. | Not applicable  |

- (II) Except the items in the preceding issues, other resolutions approved by two-thirds of all Directors but yet to be approved by the Audit Committee: None.
- II. Names, content of the motion, cause of the conflict of interest, and participation in the voting of Independent Directors who have abstained from voting for proposals that are considered to present conflicts of interest: None.
- III. Communication between Directors and the head of internal audit and CPAs (including important issues, audit methods, and results related to the Company's finance and business):
  - 1. The Company's head of internal audit, in addition to regularly sending various audit reports to independent directors, also attends and reports to the Audit Committee quarterly. The head of internal audit also responds at all times to any questions that the independent directors may have, and the interactions between them were good.
  - CPAs appointed by the Company also attended the Audit Committee quarterly and the meeting of the Board of Directors, where they explained financial/accounting matters to the independent directors, and the interactions between them were good.
  - 3. The head of internal audit and CPAs also directly contact independent directors at all times and according to need, and the communication channel between them is unimpeded.

• Communications between independent directors and the head of internal audit are as follows:

| Audit Committee date | Key points of communication   | Results of communication           |
|----------------------|---|------------------------------------|
| February 17, 2020    | <ul><li>Audit report for Q4 2019</li><li>2019 Statement on Internal Control</li></ul> |                                    |
| April 28, 2020       | · Audit report for Q1 2020  | Full attendance No objections from |
| July 28, 2020        | · Audit report for Q2 2020  | independent directors              |
| October 26, 2020     | <ul><li>Audit report for Q3 2020</li><li>2021 Audit plan</li></ul>                    |                                    |

Summary of communications between independent directors and CPAs in recent years:

| Audit Committee date | Key points of communication  | Results of communication           |
|----------------------|--|------------------------------------|
| February 17, 2020    | <ul> <li>Review results and key review items for<br/>the 2019 stand-alone and consolidated<br/>financial statements</li> </ul> |                                    |
| April 28, 2020       | <ul> <li>Results of review of the consolidated<br/>financial statements for Q1 2020</li> </ul>                                 | Full attendance No objections from |
| July 28, 2020        | · Results of review of the consolidated financial statements for Q2 2020   | independent directors              |
| October 26, 2020     | · Results of review of the consolidated financial statements for Q3 2020   |                                    |

## (III)Corporate Governance Implementation Status and Deviations from "the Corporate Governance Best-Practice Principles for TWSE/TPEx Listed Companies" and Reasons

The Company attaches great importance to corporate governance. Not only has it introduced the corporate governance systems in advance by taking overseas norms into consideration, but has also adopted the "Corporate Governance Best-Practice Principles for TWSE/TPEx Listed Companies" as its guideline. In 2003, the Company added two independent directors to the Board of Directors in accordance with the US Securities Laws and Regulations. The following year, three Independent Directors were elected. The Company also established an Audit Committee, which was later renamed the Auditing Committee. The Compensation Committee was set up in 2005, with internal auditing being directly subordinate to the Board.

In 2007, the Company adopted the candidate nomination system for the first time for the election of the Board and Supervisors (including three Independent Directors). In June 2009, the Company set up the Audit Committee to replace Supervisors in accordance with Article 14-4 of the Securities and Exchange Act. In January 2019, the "Compensation Committee" was set up in accordance with Article 14-6 of the Securities and Exchange Act. In January 2019, the Company voluntarily set up the "Nomination Committee" to assist the operation of Board.

In 2007 and 2011, the company passed the Taiwan Corporate Governance Association CG6002 and CG6006 evaluations in the corporate governance system respectively and was ranked in the top 5% of all listed companies in the first corporate governance evaluation in 2014. This reaffirms Macronix's implementation and active promotion of corporate governance.

|   |          |    | Implementation Status   | Deviations from "the  |
|---|----------|----|---|---|
| Evaluation Item   | Yes      | No | Abstract Illustration   | Corporate Governance Best-Practice Principles for TWSE/TPEx Listed Companies" and Reasons |
| I. Does the company establish and disclose the<br>Corporate Governance Best-Practice Principles"<br>based on "Corporate Governance Best-Practice<br>Principles for TWSE/TPEx Listed Companies"?   | <b>✓</b> |    | The Company has established the "Corporate Governance Principles" based on "Corporate Governance Best-Practice Principles for TWSE/TPEx Listed Companies" and disclosed them on the company website.  | None  |
| <ul><li>II. Shareholding structure &amp; shareholders' rights</li><li>(I) Does the company establish an internal operating procedure to deal with shareholders' suggestions, doubts, disputes, and litigations, and implement based on the procedure?</li></ul> | <b>✓</b> |    | (I) The Company has established an Investor Relations Office and a legal center. Dedicated personnel are assigned to address issues such as shareholder suggestions, inquiries, and disputes. The legal actions taken by the shareholders are also properly addressed through internal operating procedures, and records are kept for future reference. | None  |

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|   |          |    | Implementation Status  | Deviations from "the  |  |
|---|----------|----|--|---|--|
| Evaluation Item   | Yes      | No | Abstract Illustration  | Corporate Governance Best-Practice Principles for TWSE/TPEx Listed Companies" and Reasons |  |
| (II) Does the company possess the list of its major shareholders as well as the ultimate owners of those shares?        | <b>✓</b> |    | (II) The Company possesses the list of its directors, managers, and shareholders with more than 10% of the shares as well as their major shareholders. Relevant information is routinely disclosed.  | None  |  |
| (III) Does the company establish and execute the risk management and firewall system within its conglomerate structure? |          |    | (III) The Company has established the "Relevant Financial and Business Operations Rules between Relation Parties" and "Regulations of the Supervision and Management of Subsidiaries" to clearly distinguish the assets, finance, and operations between the Company and its affiliated companies, as well as execute the risk management and firewall system.   | None  |  |
| (IV) Does the company establish internal rules against insiders trading with undisclosed information?                   |          |    | (IV) The Company has established the "Code of Business<br>Conduct and Ethics" and "Preventing Insider Trading" to<br>clearly regulate matters regarding the staff purchasing the<br>Company's securities.  | None  |  |
| III. Composition and Responsibilities of the Board of Directors   |          |    |  |   |  |
| (I) Does the Board develop and implement a diversified policy for the composition of its members?                       | <b>✓</b> |    | (I) The Company's corporate governance principles stipulate that the composition of the Board of directors shall take diversity into consideration. The authorized Nomination Committee shall also formulate criteria regarding the diversity and independence of the directors' professional knowledge, expertise, experience, and gender. These criteria will be adopted in the search, review, and nomination of director candidates. Please refer to page 63 of this Annual Report for the implementation of the Board diversity policy. | None  |  |

|  |          |    | Implementation Status   | Deviations from "the  |  |
|--|----------|----|---|---|--|
| Evaluation Item  | Yes      | No | Abstract Illustration   | Corporate Governance Best-Practice Principles for TWSE/TPEx Listed Companies" and Reasons |  |
| (II) Does the company voluntarily establish other functional committees in addition to the Compensation Committee and the Audit Committee?   | <b>✓</b> |    | (II) The Company voluntarily set up the Nomination<br>Committee on January 22, 2019, please refer to page 42 of<br>this Annual Report for the members and operations.   | None  |  |
| (III) Does the Company establish standards and methods for evaluating board performance, conduct annual performance evaluations, submit performance evaluation results to the Board, and use the results as a basis for determining the remuneration and nomination renewal of individual directors? | <b>✓</b> |    | (III) The Company has established the "Rules for Board of Directors Performance Assessments" to clearly regulate the evaluation cycle, period, scope, execution unit, and procedures. The results were submitted to the Company's Nomination Committee and Board of Directors. Please refer to page 27 of this Annual Report for implementation status in 2020.   | None  |  |
| (IV) Does the company regularly evaluate the independence of CPAs?   | <b>✓</b> |    | (IV) The company engaged a professional accounting firm to conduct financial and tax compliance audits. The Company evaluates the independence of CPAs by the following criteria every year. The engagement shall be duly reviewed by the Audit Committee and approved by the Board of Directors. The evaluation items of independence of CPAs are as follows: 1. Not appointing the same accountant to perform audits for more than seven consecutive years, 2. Obtaining a statement of independence, including but not limited to whether the accountant has direct or indirect significant financial interests in the Company; whether there is kinship or business relations that might have an impact on the independence with the Company's directors, supervisors and managers; whether they concurrently serve as the Company's directors and supervisors during the audit period or hold positions that have direct and significant influence on the audit. | None  |  |

|  |          |    | Implementation Status   | Deviations from "the  |
|--|----------|----|---|---|
| Evaluation Item  | Yes      | No | Abstract Illustration   | Corporate Governance Best-Practice Principles for TWSE/TPEx Listed Companies" and Reasons |
| IV. Does the TWSE listed company have a suitable number of competent corporate governance personnel, and has it appointed a corporate governance supervisor responsible for corporate governance matters (including but not limited to providing information for directors and supervisors to perform their duties, assisting directors and supervisors with regulatory compliance, handling matters related to Board meetings and shareholders' meetings, and preparing proceedings for Board meetings and shareholders' meetings)? | <b>✓</b> |    | The Board of Directors has designated the Board Secretariat Department to handle administrative matters for the Board. On March 12th, 2019, the Corporate Governance Officer was also set up to handle corporate governance Officer as per the requests of the directors. The terms of reference are set out below: (1) Responsibilities: 1.Matters related to the meetings of the Board of Directors and shareholders' meetings in accordance with the law; 2.Prepare the minutes of the Board and Shareholders' Meeting; 3.Assist the directors and supervisors in continuous education; 4.Provide information necessary for the Directors and Supervisors; 5.Assist Directors and Supervisors to comply with the laws and regulations; 6. Other matters stipulated in the Articles of Incorporation or the contract. (2) Please refer to page 61 of this annual report for education of corporate governance supervisor within the most recent year. | None  |
| V. Does the company establish a communication channel and build a designated section on its website for stakeholders (including but not limited to shareholders, employees, customers, and suppliers), as well as handle all the issues they care for in terms of corporate social responsibilities?   | <b>✓</b> |    | The Company understands and responds to the stakeholders' reasonable expectations for the Company, needs, and topics of concern through a number of communication channels, and such communications with stakeholders are reported to the Board of Directors every year. All types of stakeholders can access the Company's contact information and communication channels through the "Contact Us" on the company website, and ask questions or express opinions. Please refer to the Company's Corporate Social Responsibility (CSR) Report for   | None  |

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|  |          |          | Implementation Status  | Deviations from "the  |
|--|----------|----------|--|---|
| Evaluation Item  |          | No       | Abstract Illustration  | Corporate Governance Best-Practice Principles for TWSE/TPEx Listed Companies" and Reasons |
|  |          |          | the identification method and identity of stakeholders, topics of concern, and response method.  |   |
| VI. Does the company appoint a professional shareholder service agency to deal with shareholder affairs?   |          | <b>✓</b> | The Company has set up an Investor Relations office since 1997 dedicated to handling matters related to the Company's shareholders. All shareholders' equity operations are carried out in accordance with the "Standards for the Internal Control System of the Stock Department", and the same applies to shareholders' meetings.  | Please refer to<br>Implementation Status  |
| VII. Information Disclosure  |          |          |  |   |
| <ul> <li>(I) Does the company have a corporate website to disclose both financial standings and the status of corporate governance?</li> <li>(II) Does the company have other information disclosure channels (e.g. building an English website, appointing designated people to handle information collection and disclosure, creating a</li> </ul> | ✓<br>✓   |          | <ul> <li>(I) The Company has established a corporate website to disclose information on financial operations and corporate governance.</li> <li>(II) The Company has established an English website to disclose relevant information and set up dedicated departments for collecting and disclosing company information. Furthermore, to implement the spokesperson</li> </ul> | None<br>None  |
| spokesman system, webcasting investor conferences)?  |          |          | system, the Company has designated a spokesperson and a deputy spokesperson for speaking on behalf of the Company. The briefing and procedures of investor conferences are available in the "Investor Relations/Financial Information/Quarterly Results" section of the company website.   |   |
| (III)Does the company announce and report annual financial statements within two months after the end of each fiscal year, and announce and report Q1, Q2, and Q3 financial statements, as well as monthly operation results, before the prescribed time limit?  | <b>✓</b> |          | (III)The Company announces and reports quarterly financial statements and monthly operation results within the prescribed time limit, and the financial statements were announced and reported within two months after the end of the fiscal year.   | None  |

|   |     |                              | Implementation Status  | Deviations from "the  |
|---|-----|------------------------------|--|---|
| Evaluation Item   | Yes | Yes No Abstract Illustration |  | Corporate Governance Best-Practice Principles for TWSE/TPEx Listed Companies" and Reasons |
| VIII. Is there any other important information to   | ✓   |                              | 1. Status of employee rights and employee wellness: Please   | None  |
| facilitate a better understanding of the  |     |                              | refer to the Company's "Corporate Social Responsibility  |   |
| company's corporate governance practices (e.g.,   |     |                              | Report."   |   |
| including but not limited to employee rights,   |     |                              | 2. Status of risk management policies and risk evaluation:   |   |
| employee wellness, investor relations, supplier relations, rights of stakeholders, directors' and |     |                              | Please refer to (IX) on Page 58 of this annual report for important information that can enhance the |   |
| supervisors' training records, the implementation   |     |                              | 3. Directors' training: The Company arranges training courses  |   |
| of risk management policies and risk evaluation   |     |                              | for directors annually. Each director also participates in   |   |
| measures, the implementation of customer  |     |                              | relevant courses organized by external institutions when   |   |
| relations policies, and purchasing insurance for  |     |                              | necessary. In 2020, each director received 6 hours of  |   |
| directors and supervisors)?   |     |                              | training. Please refer to page 58 of this annual report for  |   |
| -   |     |                              | Directors' training records.   |   |
|   |     |                              | 4. Directors' Liability Insurance: The Company has taken out   |   |
|   |     |                              | liability insurance for Directors and Supervisors since  |   |
|   |     |                              | October 15th, 1999. For the status of maintaining the  |   |
|   |     |                              | insurance and submission to the Board of Directors, please   |   |
|   |     |                              | refer to the Market Observation Post System (MOPS).  |   |

IX. Please describe the improvements your company has made based on the corporate governance evaluation results released by the Corporate Governance Center of Taiwan Stock Exchange in the most recent year, and list priorities and measures for matters that still require improvement.

The Corporate Governance Center announced results of the 2019 (6th) Corporate Governance Evaluation in April 2020. Our score significantly improved compared with the previous year (2018), and ranked in the top 6-20% of public companies and top 11-20% of electronic companies with a market cap of NT\$10 billion or above. We revised the method for internal auditor appointment/dismissal, evaluation, and salary approval in 2020, and completed the annual general meeting before the end of May, in order to continue improving our corporate governance performance. Furthermore, we began uploading English versions of our meeting handbook and quarterly and annual financial statements to the Market Observation Post System before the regulatory requirement came into effect, so as to improve our information transparency.

## (IV) Composition, Functional Authority, and Operations of the Compensation Committee

1. Information on committee members

|                         |                    | and meets   | east 5 years of<br>experience<br>s one of the fol<br>ional qualifica   | lowing   |   | Co | mpl | ianc | e of<br>(No | ind<br>ote) | lepe | nde | nce |    |   |         |
|-------------------------|--------------------|---|--|--|---|----|-----|------|-------------|-------------|------|-----|-----|----|---|---------|
| Title                   |                    | An instructor or higher position in a department of commerce, law, finance, accounting, or other academic department related to the business needs of the Company in a public or private junior | A judge,<br>public<br>prosecutor,<br>attorney,<br>certified<br>public<br>accountant,<br>or other<br>professional<br>or technical<br>specialist<br>who has<br>passed a<br>national<br>examination | Has work experienc e in the areas of commerc e, law, finance, or accountin g, or otherwise necessary for the business of the Company | 1 | 2  | 3   | 4    | 5           | 6           | 7    | 8   | 9   | 10 | Number of other public companies in which the member concurrentl y as a member of their Compensati on Committee | Remarks |
| Independent<br>Director | Chiang<br>Kao      | ✓   |  | ✓  | ✓ | ✓  | ✓   | ✓    | ✓           | ✓           | ✓    | ✓   | ✓   | ✓  | 0   |         |
| Independent<br>Director | Yan-Kuin<br>Su     | ✓   | ✓  | ✓  | ✓ | ✓  | ✓   | ✓    | ✓           | ✓           |      | ✓   | ✓   | ✓  | 1   |         |
| Independent<br>Director | John C. F.<br>Chen |   | ✓  | ✓  | ✓ | ✓  | ✓   | ✓    | ✓           | ✓           | ✓    | ✓   | ✓   | ✓  | 0   |         |

Note: If the committee member meets any of the following criteria in the two years before being appointed or during the term of office, please check "\ssigma" in the corresponding boxes:

- (1) Not an employee of the Company or any of its affiliates.
- (2) Not a director or supervisor of the Company or an affiliated enterprise (does not apply to independent directors concurrently appointed by the Company or its parent company, subsidiary, or the subsidiary of the parent company pursuant to the Regulations Governing Appointment of Independent Directors and Compliance Matters for Public Companies or local laws and regulations).
- (3) Not a natural-person shareholder who holds shares, together with those held by the person's spouse, minor children, or held by the person under others' names, in an aggregate amount of 1% or more of the total number of outstanding shares of the Company or ranking in the top 10 in holdings.
- (4) Not a manager listed in (1) or a spouse, relative within the second degree of kinship, or lineal relative within the third degree of kinship of any of the above persons listed in (2) and (3).
- (5) Not a director, supervisor, or employee of a corporate shareholder that directly holds 5% of the Company's total outstanding shares, is a top 5 shareholder, or appointed a representative to serve as the Company's director or supervisor in accordance with Article 27, Paragraph 1 or 2 of the Company Act (does not apply to independent directors concurrently appointed by the Company or its parent company, subsidiary, or the subsidiary of the parent company pursuant to the Regulations Governing Appointment of Independent Directors and Compliance Matters for Public Companies or local laws and regulations).
- (6) Not a director, supervisor, or employee of a company controlled by a single person with over half of the Company's director seats or shares with voting rights (does not apply to independent directors concurrently appointed by the Company or its parent company, subsidiary, or the subsidiary of the parent company pursuant to the Regulations Governing Appointment of Independent Directors and Compliance Matters for Public Companies or local laws and regulations).
- (7) Not a director, supervisor, or employee of another company or institution that is the same person or the spouse of the Company's chairperson, president, or equivalent position (does not apply to independent directors concurrently appointed by the Company or its parent company, subsidiary, or the subsidiary of the parent company pursuant to the Regulations Governing Appointment of Independent Directors and Compliance Matters for Public Companies or local laws and regulations).
- (8) Not a director, supervisor, manager, or shareholder with 5% or more shares of a specific company or institution with financial or business dealings with the Company (does not apply to independent directors concurrently appointed by a specific company or institution that holds 20% or more but not more than 50% of the Company's outstanding shares, and the Company or its parent company, subsidiary, or the subsidiary of the parent company pursuant to the Regulations Governing Appointment of Independent Directors and Compliance Matters for Public Companies or local laws and regulations).
- (9) Not a professional individual who, or an owner, partner, director, supervisor, or manager of a sole proprietorship, partnership, company or institution that provides commercial, legal, financial, accounting services or consultation with cumulative remuneration in the most recent two years not exceeding NT\$500,000 to the Company or to any affiliate of the company, or a spouse thereof. This does not apply to members of the compensation committee, public tender offer review committee, or merger and acquisition special committee that performs duties in accordance with the Securities Exchange Act or Business Mergers and Acquisitions Act.
- (10) Not a governmental, juridical person or its representative as defined in Article 27 of the Company Law.

#### 2. Responsibilities

- (1) Establishes and periodically reviews the performance evaluation and policies, system, standards, and structure of the compensations for Directors, supervisors, and managers.
- (2) Periodically evaluates and establishes compensations and benefits for Directors, supervisors, and managers.

#### 3. Implementation status

- (1) The Company has a Compensation Committee composed of 3 members.
- (2) The term of the current member is from July 23, 2019 to June 17, 2022.
- (3) The Compensation Committee convened 4 times (A) in the last fiscal year. The qualifications of the members and attendance are as follows:

| Title               | Name               | Attendance in Person (B) | By Proxy | Attendance Rate (%)(B/A) | Remarks |
|---------------------|--------------------|--------------------------|----------|--------------------------|---------|
| Convener            | Chiang Kao         | 3                        | 1        | 75%                      |         |
| Committee<br>Member | Yan-Kuin Su        | 4                        | 0        | 100%                     |         |
| Committee<br>Member | John C. F.<br>Chen | 4                        | 0        | 100%                     |         |

Other items that shall be recorded:

I. The main items that discussion the conference of Compensation Committee in the recent years were as follows

| Board of<br>Directors<br>Date/ Term  | Compensation<br>Committee<br>Date/ Term   | Motion  | Resolution results of<br>the Compensation<br>Committee  | The Company's response to the comments of the Compensation Committee |
|--|---|---|---|--|
| 2020.02.17<br>The 4th meeting<br>of the 11th<br>Term of the<br>Board of<br>Directors | 2020.02.17<br>The 3rd meeting of<br>the 11th Term of<br>the Compensation<br>Committee | Submitted for approval of 2020 annual incentive bonus of the Company Managers.  | Unanimously approved by all members attending the meeting and will be submitted to the Board of Directors meeting for approval. | Not applicable   |
| 2020.04.28 The 6th meeting of the 11th Term of the Board of Directors                | 2020.04.28<br>The 4th meeting of<br>the 11th Term of<br>the Compensation<br>Committee | Submitted for approval of the compensation package of new Executive Directors, Mr. H.C. Liu, Kevin Tu, D.J. Lin and K.L. Chang.                       | Unanimously approved by all members attending the meeting and will be submitted to the Board of Directors meeting for approval. | Not applicable   |
| 2020.07.28 The 8th meeting of the 11th Term of the Board of Directors                | 2020.07.28 The 5th meeting of the 11th Term of the Compensation Committee             | Submitted for approval of the 2019 employee bonus to be distributed to the managers as defined under Company Law and/or Securities and Exchanged Act. | Unanimously approved by all members attending the meeting and will be submitted to the Board of Directors meeting for approval. | Not applicable   |

| 2020 calary   | Unanimously approved by all members attending the meeting and will be submitted to the Board of Directors meeting for approval. | Not applicable |
|---|---|----------------|
| Submitted for<br>approval of 2021<br>annual incentive<br>bonus of the<br>Company<br>Managers. | Unanimously approved by all members attending the meeting and will be submitted to the Board of Directors meeting for approval. | Not applicable |

- II. If the Board of Directors chooses not to adopt or revise recommendations proposed by the Compensation Committee, the date of the meeting, term, agenda, resolution results, and 46-the Company's response to the comments provided by the Salary and Compensation Committee shall be described: None.
- III. For the decisions made by the Compensation Committee, if there are documented records of members who veto or withhold from expressing their opinions, the date, term, agenda, all members' comments, and the measures for handling these comments shall be elaborated: None.

#### (V) Composition, Functional Authority, and Operations of the Nomination Committee

#### 1. Composition

The Nomination Committee is comprised of the chairman (Mr. Miin Chyou Wu) and two independent directors (Mr. Chiang Kao and Mr. Yan-Kuin Su), all of which have a professional background in industrial technology, who are capable of performing their duties

#### 2. Responsibilities

- (1) Formulate the standards for directors and senior executives, such as specialized knowledge, skills, experience, and gender. As well as searching, reviewing, and nominating directors and senior executive candidates.
- (2) Establish and develop organizational structure of the Board of Directors and various committees. Evaluate the performance of the Board of Directors, various committees, directors, senior executives, and the independence of independent directors.
- (3) Establish and periodically review the continuing education plan of directors and succession plan of directors and senior executives.
- (4) Other matters entrusted to the committee by resolution of the Board of Directors.

#### 3. Implementation status

- (1) The Company's decided to establish the Nomination Committee on January 22, 2019.
- (2) The term of the current member is from July 23, 2019 to June 17, 2022.
- (3) The Nomination Committee convened 3 times (A) in the most recent year. The attendance of members is as follows:

| Title               | Name          | Attendance in Person (B) | By Proxy | Attendance Rate (%)<br>(B/A) | Remarks |
|---------------------|---------------|--------------------------|----------|------------------------------|---------|
| Convener            | Miin Chyou Wu | 3                        | 0        | 100%                         |         |
| Committee<br>Member | Chiang Kao    | 3                        | 0        | 100%                         |         |
| Committee<br>Member | Yan-Kuin Su   | 3                        | 0        | 100%                         |         |

#### Other items that shall be recorded:

- 1. If the Board of Directors chooses not to adopt or revise recommendations proposed by the Nomination Committee, the date of the meeting, term, agenda, resolution results, and the Company's response to the comments provided by the Salary and Nomination Committee shall be described: None.
- 2. For the decisions made by the Nomination Committee, if there are documented records of members who veto or withhold from expressing their opinions, the date, term, agenda, all members' comments, and the measures for handling these comments shall be elaborated: None.

|   |          |    | Deviations from "the   |  |
|---|----------|----|--|--|
| Evaluation Item   | Yes      | No | Abstract Explanation   | Corporate Social<br>Responsibility Best-<br>Practice Principles for<br>TWSE/TPEx Listed<br>Companies" and<br>Reasons |
| I. Does the company assess ESG risks associated with its<br>operations based on the principle of materiality, and<br>establish related risk management policies or<br>strategies?   | <b>√</b> |    | The Company plans and implements its CSR strategy based on the requirement of GRI (Global Reporting Initiative) Standards, assesses materiality based on the level of concern among stakeholders and the extent of impact on the Company's operations, and ranks and responds to issues based on their materiality.  | None   |
| II. Has the company established a fully (or partially) dedicated unit to promote CSR? Does the Board of Directors authorize the senior management to handle such matters and report its implementation to the Board of Directors? | <b>√</b> |    | The Company promotes CSR operations through the Environment, Safety and Health Center, the Administration Service Center, and the Professional Development Center. The corporate social responsibility management system is continuous improvement by both internal and external audits. The audit results are reviewed by the management to ensure continuous effectiveness of the management system. CSR related issues and management performance are reported to the Board of Directors each year. | None   |
| <ul><li>III. Environmental issues</li><li>(I) Has the Company established a suitable environmental management system based on the characteristics of the industry?</li></ul>  | <b>√</b> |    | (I) The company established and passed the ISO 14001 Environmental Management System certification in 1997. In 2007, the IECQ QC 080000 Hazardous Substance Process Management System was established and passed to promote environmental management on both the operational and product aspects.  | None   |

|  |          |    | Implementation Status  | Deviations from "the   |
|--|----------|----|--|--|
| Evaluation Item  | Yes      | No | Abstract Explanation   | Corporate Social<br>Responsibility Best-<br>Practice Principles for<br>TWSE/TPEx Listed<br>Companies" and<br>Reasons |
| (II) Is the Company committed to improving the efficiency of various resources and utilizing renewable materials to reduce the environmental impact?   | <b>✓</b> |    | (II) The Company continues to engage in energy conservation and carbon reduction by purchasing products with green and ecofriendly labels. The Company has spared no effort in improving resource efficiency and producing green products to reduce the environmental impact of its operations and enhance corporate competitiveness.  | None   |
| (III) Does the company evaluate potential risks and opportunities brought by climate change, and take response measures to climate-related issues?   | <b>✓</b> |    | (III) We have conducted evaluations of the short-term, mid-term, and long-term based on our current capabilities and commitment to the environment. Semiconductor processes continue to emit greenhouse gas and use large amounts of power. Hence, we have begun to plan and manage green electricity management and greenhouse gas reduction mechanisms in response to short-term regulatory impact. We have evaluated the possibility of installing renewable energy devices and local scrubbers in order to reduce fluorinated greenhouse gas emissions. Despite there not being any external requirements, we made the devices mandatory for new production lines in hopes of lowering the main factor that causes climate change. | None   |
| (IV) Does the company compile statistics of greenhouse gas emissions, water use, and total weight of waste in the past two years, and does it establish policies for energy conservation & carbon reduction, greenhouse gas emission reduction, water use reduction, and other waste management? | <b>✓</b> |    | (IV) Macronix cooperates with the Environmental Protection Administration's annual inspection of GHG emissions and files reports accordingly. The Company set the policy of energy conservation and carbon reduction in its ISO 14001 Environmental Management System, and promotes water conservation, waste reduction, and waste recycling and reuse based on the Macronix EHS policy and CSR management approach.   | None   |

| Evaluation Item |  |    | Deviations from "the  |   |
|-----------------|--|----|---|---|
|                 |  | No | Abstract Explanation  | Corporate Social Responsibility Best- Practice Principles for TWSE/TPEx Listed Companies" and Reasons |
|                 |  |    | Macronix sets annual goals for water consumption and waste generation, and conducts quarterly reviews to verify that operations are on track to achieving the goals:  The water consumption data and water balance chart submitted to the Science Park Bureau each month are used to regularly track and manage the usage data of water resources, and conduct risk assessment and management.  Our internal units also monitor the process water recycling rate on a daily basis through wastewater recycling technology and the SCADA system. We set up a rainwater harvesting tank at our head office and store rainwater in the water tower. The water is then used to water plants and flush toilets. We are continuing to actively develop a water resource recycling strategy to achieve the water conservation and increase the efficiency of water use. As for waste reduction, we compile statistics of waste storage, generation, and clearance on a monthly basis to determine the generation of waste in our plants. We reduce waste by cutting down the consumption of materials through the joint efforts of engineering departments based on a feasible reduction plan. As for improving waste recycling and reuse, prior to waste disposal, we verify if the way contractors process the waste is appropriate, giving priority to reuse. We also audit waste treatment contractors on an annual basis with an emphasis on if waste is properly cleared in the treatment process. We set the goal in 2019 to maintain waste recycling and reuse rate ≥ 88%. |   |

|   |          |    | Deviations from "the   |   |
|---|----------|----|--|---|
| Evaluation Item   | Yes      | No | Abstract Explanation   | Corporate Social Responsibility Best- Practice Principles for TWSE/TPEx Listed Companies" and Reasons |
|   |          |    | We hope to reduce the environmental load caused by production through vendor selection, auditing, and self-management measures.  |   |
| <ul><li>IV. Social issues</li><li>(I) Has the Company formulated management policies and procedures in accordance with relevant laws and regulations as well as the International Bill of Human Rights?</li></ul> | <b>√</b> |    | (I) The Company's management rules are superior to the Labor Standards Act.  Similarly, the international social responsibility standard SA 8000 and RBA Code of Conducts are the Company's basic requirements. The Company's corporate social responsibility policy, HR compilation and procedures not only satisfy the legal requirements but also take employee rights and interests into consideration. Regular reviews are conducted to achieve continuous improvement. | None  |
| (II) Does the company have reasonable employee benefit measures (including salaries, leave, and other benefits), and do business performance or results reflect on employee salaries?                             | •        |    | (II) The Company has established and implemented reasonable employee benefit measures; please refer to V.  Labor/Management Relations on page 96 of this Annual Report. The Company's performance is reflected by the employees' and directors' salaries; please refer to (VIII) Remuneration of employees, Directors and Supervisors on page 81 of this Annual Report.  | None  |
| (III) Has the Company provided employees with a safe and healthy working environment, and routinely implemented safety and health education for employees?  | ✓        |    | (III) The Company has established a safety and healthy work environment that is better than other company in the same sector based on the ideal of providing a warm and happy environment for employee's growth. The Company provides comprehensive training for the employees, which has received recognition from the competent authority, including the National Work Safety Award from the Executive Yuan,   | None  |

|  |          |    | Deviations from "the  |  |
|--|----------|----|---|--|
| Evaluation Item  | Yes      | No | Abstract Explanation  | Corporate Social<br>Responsibility Best-<br>Practice Principles for<br>TWSE/TPEx Listed<br>Companies" and<br>Reasons |
| (IV) Has the Company established an effective career developmental plan for its employees?   | ✓        |    | Contribution to Work Opportunity Creation from the Ministry of Economic Affairs, and the Excellent Employee Assistance Program Award from the Ministry of Labor.  (IV) The individual development plan of Macronix employees is closed connected to the performance management system. The Company conducts a performance review once every year to examine individual and organizational performance. Employees can have face face-to-face discussions with their supervisor to develop their personalized development plan based on their performance and the needs for career development, in order to gradually develop various professional knowledge and skills.  | None   |
| (V) Does the company comply with relevant regulations and international standards in customer health and safety, customer privacy, and marketing and labeling its goods and services, and has it established consumer rights protection policies and complaint procedures? | <b>✓</b> |    | (V) The Company's products have green product. The products meet the requirements of the European Union's RoHS directive SVHC (Substances of Very High Concern) and ELV (End-of-Life Vehicle). We comply with NDAs with customers and the Personal Data Protection Act to maintain customer privacy, and we also established a personal data protection policy, which employees are required to comply with when performing work that may not be disclosed. Labeling on our products comply with the Commodity Labeling Act, this involves clearly labeling all necessary information, such as product datasheets, outer box and all necessary labels with product specifications and manufacturing information. The Company established a dedicated unit for customer complaint handling procedures, | None   |

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|  |          |    | Implementation Status   | Deviations from "the Corporate Social  |
|--|----------|----|---|--|
| Evaluation Item  | Yes      | No | Abstract Explanation  | Responsibility Best-<br>Practice Principles for<br>TWSE/TPEx Listed<br>Companies" and<br>Reasons |
| (VI) Does the company have a supplier management policy, require suppliers to comply with regulations on environmental protection, occupational safety and health, and labor rights, and what is its implementation status?  | <b>✓</b> |    | and management process to properly handle customer complaints.  (VI) We proposed due diligence for suppliers in our CSR policy for supplier management. We make suppliers aware of the importance of CSR during annual supplier meetings, and require suppliers to jointly achieve RBA Code of Conducts requirements together with us. We also transformed our expectations for suppliers into actual management requirements on the Code of Conducts Compliance Certificate, which suppliers must sign and submit to us. Responsible units conduct on-site audits or documentary audits of suppliers each year based on their risk, so as to verify whether or not suppliers met our requirements. | None   |
| V. Does the company reference internationally accepted reporting standards or guidelines, and prepare reports that disclose non-financial information of the company, such as corporate social responsibility reports? Have the reports above obtained assurance from a third party verification unit? | <b>✓</b> |    | Macronix began structuring its CSR Report in accordance with the GRI Standards in 2014, and obtained a third party assurance report that there are no deviations in the CSR Report.   | None   |

VI. If the Company has established corporate social responsibility principles based on "Corporate Social Responsibility Best Practice Principles for TWSE/TPEx Listed Companies", please describe any discrepancy between the principles and their implementation: There was no substantial difference.

VII. Other important information helpful in understanding CSR operations: Relevant information is detailed in the Corporate Social Responsibility Report of the Company, the Company website, and the Macronix Education Foundation website (http://www.macronix.com).

### CSR Milestones for Macronix

| Year | Milestones   |
|------|--|
| 2000 | • Founded the first "Golden Silicon Award – Semiconductor Design and Application   |
| 2000 | Contest"   |
| 2001 | Established the Macronix Education Foundation  |
| 2002 | Held The first "Macronix Science Award"  |
|      | Awarded as an Excellent Energy Conservation Enterprise by the Bureau of Energy,  |
|      | Ministry of Economic Affairs   |
| 2004 | • Became the first company in the science park to complete the greenhouse inventory and  |
|      | verification   |
|      | • Established the "Macronix Science Award Winners' Club"   |
| 2005 | • Passed the BSI ISO 14001: 2004 Environmental Management System Certification   |
| 2003 | • Won the 14th Enterprise Environmental Protection Award for four consecutive years  |
| 2006 | • Achieved RoHS compliance and awarded green product certificates from internationally-  |
| 2006 | renowned companies such as SONY, CANON, and LG   |
|      | Obtained verification from the IECQ QC080000 Hazardous Substance Process   |
|      | Management System  |
|      | Awarded as the "Excellent Enterprise for Voluntary Greenhouse Gas Reduction" by the  |
| 2007 | Industrial Development Bureau, Ministry of Economic Affairs  |
| 2007 | Certified by the British Standards Institute (BSI) and obtained the "ISO 14064   |
|      | Greenhouse Gas Inventory and Reduction Certificate"  |
|      | • Obtained the CG6002 Corporate Governance System Assessment Certification from the  |
|      | Corporate Governance Association of the Republic of China  |
|      | • Became the first semiconductor company in the science park certified by the "SA 8000   |
|      | Enterprise Social Responsibility Management System"  |
|      | • Donated NT\$300 million to Tsinghua University for the new learning resource center,   |
|      | Macronix Hall  |
|      | • The Group donated RMB5 million for the Sichuan Earthquake.   |
| 2008 | Promoted the "Code of Conduct for Electronic Industry" for the upstream and  |
|      | downstream supply chain partners   |
|      | • Passed the new SGS OHSAS 18001: 2007 certification   |
|      | • Passed the TOSHMS (Taiwan Occupational Safety and Health Management System)  |
|      | certification  |
|      | • Awarded the Green Procurement Award by the Environmental Protection Administration   |
|      | • Won the 3rd National Work Safety Award   |
| 2009 | <ul> <li>Became a semiconductor company that obtained a quality enterprise certificate</li> <li>Donated NT\$100 million to relieve the damage caused by Typhoon Morakot to Taiwan</li> </ul> |
|      | Won the "Role Model Award" from 5th Global Views Monthly's CSR Awards  |
|      | Won the first prize "Five-Star Award" at the 6th Global Views Monthly's CSR Awards   |
|      | • Won the "Corporate Citizen Award" from the Common Wealth Magazine in 2010  |
| 2010 | • Increased the donation to the Macronix Hall, Tsinghua University by NT\$ 100 million   |
|      | • Awarded the "Contribution to Work Opportunity Creation Award" by the Executive Yuan  |
|      | • Donated NT\$30 million for the aftermath of the 2011 Tohoku earthquake and tsunami   |
| 1    | Awarded the "Contribution to Work Opportunity Creation Award" by the Executive Yuan  |
|      | • Received the "Top 100 Brand in Taiwan" award from the Ministry of Economic Affairs   |
|      | Won the Corporate Citizen Award from the Common Wealth Magazine again  |
| 2011 | Won the 2011 National Invention Award  |
|      | Awarded the Corporate Governance System Assessment Certificate by CG 6006  |
|      | • Awarded as the enterprise for offering an excellent "Employee Assistance Program" by   |
|      | the Council of Labor and Welfare, Executive Yuan   |
|      |  |

| Year | Milestones  |
|------|---|
| 2012 | <ul> <li>Won the 8th "Corporate Social Responsibility Award" from Global Views Monthly</li> <li>Won the Corporate Citizen Award from the Common Wealth Magazine again</li> </ul>  |
| 2013 | <ul> <li>Macronix Hall, the new learning resource center of Tsinghua University, was officially put to use.</li> <li>The Macronix Education Foundation was given the Award of Excellence by the Ministry</li> </ul>   |
| 2014 | <ul> <li>of Education among education foundations.</li> <li>Hong-chi Wang, the Deputy Head, was chosen as an "Excellent Internal Auditor" by the Internal Audit Committee of the Republic of China.</li> <li>Won the "Balanced Lifestyle" and "Healthy Happy Life" awards from the first work-life balance competition held by the Ministry of Labor</li> </ul> |
| 2015 | <ul> <li>Received the "Excellent Healthy Workplace" from the Health Promotion Administration, Ministry of Health and Welfare</li> <li>Ranked in the top 5% in the first corporate governance evaluation of Taiwan Stock Exchange</li> </ul>   |
| 2016 | • The Water Conservation Plant V was awarded the 2016 Water Conservation Excellence Award by the National Water Conservation Agency, the Ministry of Economic Affairs.  |
| 2017 | Mr. Miin Chyou Wu, Chairman & CEO of Macronix was awarded of social Education<br>Contribution Award from the Ministry of Education.   |
| 2018 | • Mr. Miin Chyou Wu, Chairman & CEO of Macronix was awarded of "Country Winner" and "Business Paradigm Entrepreneur "of EY's Entrepreneur of the Year.  |
| 2019 | <ul> <li>Company receives the CSR 1<sup>st</sup> Annual Sustainable Elite Award</li> <li>Donation of NT\$420 million to National Cheng Kung University for its construction of "Cheng Kung Innovation Center-MACRONIX Hall"</li> </ul>  |
| 2020 | <ul> <li>Company receives the 2nd CSR Annual Sustainable Elite Award</li> <li>Annual donation of NT\$100 million to National Cheng Kung University for the next ten years to establish the school of computing</li> </ul>   |

(VII) Ethical corporate management, and departure from the Ethical Corporate Management Best Practice Principles for TWSE/TPEx Listed Companies, and reasons thereof

|  |          |    | Implementation Status   | Deviations from "Ethical  |
|--|----------|----|---|---|
| Evaluation Item  | Yes      | No | Abstract Illustration   | Corporate Management Best<br>Practice Principles for TWSE/<br>TPEx Listed Companies" and<br>Reasons |
| I. Establishment of ethical corporate policies and programs  |          |    |   |   |
| (I) Does the Company establish a board-approved ethical corporate management policy and state in its regulations or external correspondence the policies and practices of the ethical corporate management policy? Are the board of directors and the managerial officers committed to fulfilling this commitment?   | <b>✓</b> |    | (I) The Ethical Corporate Management Best Practice Principles and the Code of Conduct and Ethics of the Company are approved by the board of directors and published on the Company website and internal electronic bulletin board, and they require our employees and the employees of subsidiaries included in our consolidated financial statements to exhibit honest and ethical conduct when performing their duties.  | None  |
| (II) Does the Company establish mechanisms to assess the risks of unethical conduct and perform regular analysis and assessment of operating activities with higher risks of unethical conduct? Does the Company implement programs to prevent unethical conduct based on the above and ensure the programs cover at least precautionary measures described in Article 7, Paragraph 2 of the Ethical Corporate Management Best Practice Principles for TWSE/TPEx Listed Companies? | *        |    | (II) Macronix developed ethical and social responsibility risk assessments for each department, which are carried out on a regular basis and cover all departments of the Company. The Company has established the "Ethical Corporate Management Principles" and "Code of Business Conduct and Ethics" which prohibit giving and taking bribes, receiving unreasonable gifts, benefits, and other improper benefits (avoiding conflicts of interest); intellectual property rights, confidential information, and personal data infringement; and unfair competition and discrimination. The above regulations apply to all Macronix staff. The promotion is further strengthened for departments with a higher risk of integrity violation. The effectiveness is regularly | None  |

|  | Implementation Status |    |   | Deviations from "Ethical  |
|--|-----------------------|----|---|---|
| Evaluation Item  | Yes                   | No | Abstract Illustration   | Corporate Management Best<br>Practice Principles for TWSE/<br>TPEx Listed Companies" and<br>Reasons |
| (III)Does the Company establish procedures, guidelines of conduct, punishment for violation, and reporting system clearly stated in the mechanisms to prevent unethical conduct? Does the Company enforce the programs effectively and perform regular reviews of the preceding? | ~                     |    | evaluated. Suppliers must sign the "Code of Conducts Compliance Certificate" which stipulates that suppliers shall not conduct any inappropriate commercial behavior such as bribery. Should any incidents occur, the Company can terminate the contract or transactions with the supplier as well as request compensation for any damages.  (III) The Company has established the "Ethical Corporate Management Principles" and "Code of Business Conduct and Ethics". In addition to promoting these principles to the Directors and managers, the Company has also included relevant educational training and testing for employees as well as taking the employees' implementation status into consideration in the annual performance evaluation. The task force established under the Company's Committee for the Promotion of Ethical Corporate Management Best Practice Principles host regular meetings to establish and enhance relevant measures as well as follow-up procedures of the Ethical Corporate Management based on related laws and regulations, Macronix's Ethical Corporate Management Best Practice Principles, resolutions of the board of directors and functional committees, and procedures of the Committee for the Promotion of Ethical Corporate Management Best Practice Principles. |   |

|  |          |    | Implementation Status   | Deviations from "Ethical  |
|--|----------|----|---|---|
| Evaluation Item  | Yes      | No |   | Corporate Management Best<br>Practice Principles for TWSE/<br>TPEx Listed Companies" and<br>Reasons |
| II · Fulfill operations integrity policy (I) Does the company evaluate business partners' ethical records and include ethics-related clauses in business contracts?  | <b>✓</b> |    | (I) Before engaging in business, the company conducts a credit investigation on the potential partner's records to avoid doing business with those who have records of illegal or unethical behavior. The Company has drafted the "Code of Conducts Compliance Certificate" to regulate supplier behavior. Should a supplier engage in improper business conduct such as bribery, the Company may terminate the contract or transaction at any time as well as request damages.   | None  |
| (II) Does the Company have a unit under the board of directors to promote ethical corporate management on a full-time basis, report ethical corporate management, and regularly report on the programs for the prevention of unethical conduct (at least once a year) to the board of directors, and oversee the operations thereof? |          |    | (II) In addition to establishing functional committees under the board of directors, the Company also established the Committee for the Promotion of Ethical Corporate Management under the management executives that consists of the president as the chairperson and level-1 managers of all departments as committee members. The committee aims to establish an ethical corporate management policy that will be submitted for discussion during the meeting of the board of directors and report the implementation status of the policy to the board at least once a year. Macronix's Committee for the Promotion of Ethical Corporate Management shall hold a meeting at least once a year. The task forces established under the committee should host regular meetings to establish and enhance relevant measures as well as follow-up procedure of the | None  |

|  |          |    | Implementation Status   | Deviations from "Ethical  |
|--|----------|----|---|---|
| Evaluation Item  | Yes      | No | Abstract Illustration   | Corporate Management Best<br>Practice Principles for TWSE/<br>TPEx Listed Companies" and<br>Reasons |
| (III)Does the company establish policies to prevent conflicts of interest and provide appropriate communication channels, and implement it?  | <b>✓</b> |    | Ethical Corporate Management based on related laws and regulations, Macronix's Ethical Corporate Management Best Practice Principles, resolutions of the board of directors and functional committees, and procedures of the Committee for the Promotion of Ethical Corporate Management Best Practice Principles.  (III) The Company has established the "Ethical Corporate Management Principles" and "Code of Business Conduct and Ethics" to prevent conflicts of interests. The Audit Committee has been set up to assist the Board in overseeing the Company's implementation status. Directors shall be excused from voting or discussions during the Board meeting when their interests as individuals or representatives of institutions are in potential conflicts. | None  |
| (IV) Does the Company have an effective accounting system and internal control system set up to facilitate ethical corporate management? Does the internal audit unit follow the results of unethical conduct risk assessments and devise audit plans to audit compliance to the prevention of unethical conduct? Or are the audits commissioned to a CPA? | <b>√</b> |    | (IV) The Company's accounting and internal control systems are approved by the Audit Committee and the Board. The internal auditing unit is responsible for auditing the actual operations as well as preparing the draft and report of the audit results for the Audit Committee. The goal is to effectively prevent malpractices and oversee the implementation of the Company's policies and ensure the effectiveness of the internal control system.  |   |
| (V) Does the company provide educational training on corporate social responsibility on a regular basis?   | ✓        |    | (V) The Company has established the "Ethical<br>Corporate Management Principles" and " Code of  | None  |

|  |          |  |     | Implementation Status  | Deviations from "Ethical  |
|--|----------|--|-----|--|---|
| Evaluation Item  | Yes N    |  |     | Abstract Illustration  | Corporate Management Best<br>Practice Principles for TWSE/<br>TPEx Listed Companies" and<br>Reasons |
|  |          |  |     | Business Conduct and Ethics " which are published on the Company's website and the internal ebulletin system. The employees' implementation status is taken into consideration in the annual performance evaluation. To implement ethical corporate management and ethical behavior, the Company arranges courses for directors and online courses for employees every year and organizes educational courses on business secrets, domestic and international data privacy regulations, information security management, and the prevention of insider trading for the purpose of raising the awareness of corporate ethics and compliance. In 2020, there were a total of 18,468 participants, and the number of training hours amounted to 5,853. Suppliers were also invited to the courses to ensure that they understand the regulations of Macronix's ethical corporate management. In 2020, there were a total of 102 supplier participations, and the number of training hours received amounted to 408. |   |
| <ul><li>III · Operation of the integrity channel</li><li>(I) Does the company establish both a reward/punishment system and an integrity hotline? Can the accused be reached by an appropriate person for a follow-up?</li></ul> | <b>√</b> |  | (I) | The Company has set up a "No Topic is Off Limits" suggestion box and a hotline. The staff can report any fraud they discover to prevent damages to the Company's image caused by dishonest behavior.  The Company also enhanced internal and external reporting channels, and set up an audit office   | None  |

|   | Implementation Status |    |   | Deviations from "Ethical  |
|---|-----------------------|----|---|---|
| Evaluation Item   | Yes                   | No | Abstract Illustration   | Corporate Management Best<br>Practice Principles for TWSE/<br>TPEx Listed Companies" and<br>Reasons |
| (II) Does the Company establish standard operating procedures for investigating reported cases, the follow-up measures after investigations, and relevant confidentiality mechanisms? | <b>✓</b>              |    | hotline (03-5786688 ext. 78119). In addition, the Company established a process for reporting breaches of ethical corporate management. Once a case is reported and accepted for processing, a task force is established based on the nature and type of the case the case is sent to the relevant units for investigation. The board of directors will also be informed.  (II) All cases reported through the "No Topic is Off Limits" suggestion box, the reporting hotline, and the audit office hotline will be given file numbers, documented, investigated, handled, and stored as required by the law.  Once a case is reported and accepted for processing, a task force is established based on the nature and type of the case, the case is sent to relevant units for investigation. The board of directors will also be informed. | None  |
| (III) Does the company provide proper whistleblower protection?   | <b>√</b>              |    | Macronix takes measures to maintain the confidentiality of previous cases to guarantee the legal rights of members.  (III) The management regulations of the "No Topic is Off Limits" suggestion box and the reporting hotline specify that the Company will strictly fulfill its responsibility to maintain the confidentiality of whistleblowers and prohibit retaliation against reports made with good intentions. The Company will impose an appropriate penalty for any violations thereof.   | None  |

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|   |          |  | Implementation Status  | Deviations from "Ethical  |
|---|----------|--|--|---|
| Evaluation Item   |          | No   | Abstract Illustration  | Corporate Management Best<br>Practice Principles for TWSE/<br>TPEx Listed Companies" and<br>Reasons |
|   |          | Macronix takes measures to maintain the confidentiality of cases reported through the audit office hotline to guarantee the legal rights of members. |  |   |
| IV. Strengthening information disclosure (I) Does the company disclose its ethical corporate management policies and the results of its implementation on the company's website and MOPS? | <b>✓</b> |  | The Company has disclosed the content and relevant effectiveness of the Company's "Code of Business Conduct and Ethics" on the Company's website and MOPS. The content of the "Ethical Corporate Management Principles" is disclosed on the Company's website.  The education and training of all employees has completed, and there was no violation of the "the Ethical Corporate Management Best Practice Principles" in the year 2020. | None  |

V · If the company has established the ethical corporate management policies based on the Ethical Corporate Management Best-Practice Principles for TWSE/GTSM Listed Companies, please describe any discrepancy between the policies and their implementation: There was no substantial difference.

VI • Other important information to facilitate a better understanding of the company's ethical corporate management policies (e.g., review and amend its policies)

The Company believes that a corporate culture of integrity is a key factor for the sustainable and sound development of the Company. Therefore, the Company has actively complied with the Responsible Business Alliance (RBA) code of conduct.

A supplier conference is held annually to announce and promote important policies and messages of the Company. The Company also conducts regular training courses for its suppliers to ensure their quality. In the future, the Company will continue to pay attention to the development of domestic regulations related to integrity and review relevant Company regulations accordingly in order to enhance the effectiveness of the Company's corporate governance.

### (VIII) The Method for Inquiry if the Company has Established Corporate Governance Principles and Relevant Regulations

The Company has set up the "Corporate Governance" section for investors to inquire about the Company's corporate governance information or regulations.

# (IX) Other Important Information for Better Understanding of Implementation of Corporate Governance

Implementation of risk management policies and risk assessment standards:
 To protect the Company's assets, the health of all employees and the interests of Stakeholder, the Company has implemented risk management in accordance with the "Risk Management Policy" and "Corporate Social Responsibility Policy", as well as taking out insurance to avoid risks. To ensure the quality of the Company's internal control system, the internal audit regularly and irregularly reviews the implementation status and reports to the Audit Committee and the Board of Directors.

#### 2. Handling of Company's Internal Material Information

The Company has established the "Code of Business Conduct and Ethics" and "Preventing Insider Trading" and announced that the content on the company website for all directors, managers, and employees to avoid violation.

Material information disclosure shall be conducted in compliance with the provisions of Regulations Governing the Scope of Material Information and the Means of its Public Disclosure Under Article 157-1, Paragraphs 5 and 6 of the Securities and Exchange Act as well as Taiwan Stock Exchange Corporation Procedures for Verification and Disclosure of Listed Exchange Traded Notes by Securities Firms .The Company has three principles for public disclosure: (1) accurate, complete and timely, (2) information disclosure shall have a solid base, and (3) fair disclosure to ensure that the interests of the Company and all stakeholders are protected.

#### 3. Directors' training records

The Directors' training records for the most recent year are set out in the table below. For further information, please refer to the Market Observation Post System (MOPS).

| Title                                      | Name             | Date       | Organizer                               | Course Name  | Hours |
|--|------------------|------------|---|--|-------|
| Chairman                                   | Miin Chyou<br>Wu | 2020/04/28 | Taiwan Corporate Governance Association | Response Strategy for Company<br>Changes   | 3     |
|  |                  | 2020/10/26 | Taiwan Institute of Directors           | Opportunities and challenges of companies under the US-China trade conflict                                    | 3     |
| Director Representative of the Corporation | Ching-Yun Li     | 2020/04/28 | Taiwan Corporate Governance Association | Response Strategy for Company<br>Changes   | 3     |
|  |                  | 2020/10/26 | Taiwan Institute of Directors           | Opportunities and challenges of companies under the US-China trade conflict                                    | 3     |
| Director                                   | Chih-Yuan Lu     | 2020/04/28 | Taiwan Corporate Governance Association | Response Strategy for Company<br>Changes   | 3     |
|  |                  | 2020/07/30 | Taiwan Corporate Governance Association | How companies make<br>breakthroughs in their<br>profitability through innovation<br>in the digital economy era | 3     |
|  |                  | 2020/10/26 | Taiwan Institute of Directors           | Opportunities and challenges of companies under the US-China trade conflict                                    | 3     |

| Title   | Name                | Date   | Organizer  | Course Name  | Hours |
|---|---------------------|--|--|--|-------|
|   |                     | 2020/10/29                                       | Taiwan<br>Corporate<br>Governance<br>Association   | Discussion of how companies use employee compensation strategies and tools   | 3     |
| Director  | Cheng-Yi Fang       | 2020/04/28                                       | Taiwan<br>Corporate<br>Governance<br>Association   | Response Strategy for Company<br>Changes   | 3     |
|   | 2020/10/08          | Taiwan<br>Securities<br>Association              | AML and Latest Development   | 3  |       |
|   |                     | 2020/10/26                                       | Taiwan<br>Corporate<br>Governance<br>Association   | Discussion of how companies use employee compensation strategies and tools   | 3     |
| Director<br>Representative<br>of the<br>Corporation | Shigeki<br>Matsuoka | 2020/04/28                                       | Taiwan<br>Corporate<br>Governance<br>Association   | Response Strategy for Company<br>Changes   | 3     |
|   |                     | 2020/10/26                                       | Taiwan Institute of Directors  | Opportunities and challenges of companies under the US-China trade conflict  | 3     |
| Director<br>Representative<br>of the<br>Corporation | Guei-Min Lee        | 2020/04/28                                       | Taiwan<br>Corporate<br>Governance<br>Association   | Response Strategy for Company<br>Changes   | 3     |
|   |                     | 2020/06/05                                       | Taiwan Corporate Governance Association  | Corporate governance and securities laws and regulations   | 3     |
|   |                     | 2020/06/09                                       | Taiwan<br>Corporate<br>Governance<br>Association   | Criminal liability risks and responses of company directors and supervisors – From the perspective of corporate corruption and anti-money laundering | 3     |
|   |                     | 2020/07/31                                       | Taiwan Corporate Governance Association  | Finding key information hidden in financial statements.  | 3     |
|   |                     | 2020/09/03                                       | Independent<br>Director<br>Association<br>Taiwan   | Business strategies and<br>transformation of Taiwanese<br>businesses in the global<br>economic and political situation                               | 3     |
|   |                     | 2020/10/16                                       | Taiwan<br>Corporate<br>Governance<br>Association   | Group tax management trends in the post-pandemic era   | 1     |
|   |                     | 2020/10/26                                       | Taiwan Institute of Directors  | Opportunities and challenges of companies under the US-China trade conflict  | 3     |
|   | 2020/11/20          | Taiwan<br>Corporate<br>Governance<br>Association | Ethical corporate management<br>and international practices for<br>whistleblower protection in<br>corruption and bribery cases | 3  |       |
| Director  | Che-Ho Wei          | 2020/04/28                                       | Taiwan<br>Corporate<br>Governance<br>Association   | Response Strategy for Company<br>Changes   | 3     |
|   |                     | 2020/08/17                                       | Securities &<br>Futures Institute  | Corporate governance and securities laws and regulations   | 3     |

| Title   | Name              | Date                      | Organizer   | Course Name   | Hours |
|---|-------------------|---------------------------|---|---|-------|
|   |                   | 2020/10/26                | Taiwan Institute of Directors                           | Opportunities and challenges of companies under the US-China trade conflict   | 3     |
| Director  | Dang-Hsing<br>Yiu | 2020/04/28                | Taiwan Corporate Governance Association                 | Response Strategy for Company<br>Changes  | 3     |
|   |                   | 2020/10/26                | Taiwan Institute of Directors                           | Opportunities and challenges of companies under the US-China trade conflict   | 3     |
| Director  | Ful-Long Ni       | 2020/04/28                | Taiwan<br>Corporate<br>Governance<br>Association        | Response Strategy for Company<br>Changes  | 3     |
|   |                   | 2020/10/26                | Taiwan Institute of Directors                           | Opportunities and challenges of companies under the US-China trade conflict   | 3     |
| Director<br>Representative<br>of the<br>Corporation | Pei-Fu Yeh        | 2020/03/10                | Taiwan<br>Corporate<br>Governance<br>Association        | Response Strategy for Company<br>Changes  | 3     |
|   |                   | 2020/08/24~<br>2020/08/25 | Accounting<br>Research and<br>Development<br>Foundation | Continuing Education Course<br>for Chief Accounting Officers<br>of Issuers, Securities Firms, and<br>Securities Exchanges | 12    |
|   |                   | 2020/09/21                | Taiwan Stock<br>Exchange                                | "Corporate Governance 3.0 –<br>Sustainable Development<br>Blueprint" Summit   | 3     |
|   |                   | 2020/10/26                | Taiwan Institute of Directors                           | Opportunities and challenges of companies under the US-China trade conflict   | 3     |
| Independent<br>Director                             | Tyzz-Jiun Duh     | 2020/04/28                | Taiwan<br>Corporate<br>Governance<br>Association        | Response Strategy for Company<br>Changes  | 3     |
|   |                   | 2020/10/13                | Securities &<br>Futures Institute                       | Company upgrade and transformation strategies and management – M&A and alliance selection                                 | 3     |
|   |                   | 2020/10/27                | Taiwan<br>Corporate<br>Governance<br>Association        | Risks and business opportunities of climate change  | 3     |
|   |                   | 2020/11/10                | Securities &<br>Futures Institute                       | Corporate governance and securities laws and regulations  | 3     |
| Independent<br>Director                             | Chiang Kao        | 2020/04/28                | Taiwan<br>Corporate<br>Governance<br>Association        | Response Strategy for Company<br>Changes  | 3     |
|   |                   | 2020/10/26                | Taiwan Institute of Directors                           | Opportunities and challenges of companies under the US-China trade conflict   | 3     |
| Independent<br>Director                             | Yan-Kuin Su       | 2020/04/28                | Taiwan<br>Corporate<br>Governance<br>Association        | Response Strategy for Company<br>Changes  | 3     |
|   |                   | 2020/10/26                | Taiwan Institute of Directors                           | Opportunities and challenges of companies under the US-China trade conflict   | 3     |
| Independent<br>Director                             | John C.F. Chen    | 2020/04/28                | Taiwan<br>Corporate<br>Governance                       | Response Strategy for Company<br>Changes  | 3     |

| Title | Name | Date | Organizer   | Course Name                                 | Hours |
|-------|------|------|-------------|---|-------|
|       |      |      | Association |   |       |
|       |      |      |             | Opportunities and challenges of             | 2     |
|       |      |      |             | companies under the US-China trade conflict | 3     |

# 4. Education of corporate governance supervisor within the most recent year is shown in the table below:

| Date  | Organizer                                      | Course Name   | Hours |
|---|--|---|-------|
| 2020/03/10  | Taiwan Corporate Governance<br>Association     | Response Strategy for Company Changes   | 3     |
| 2020/08/25  | Accounting Research and Development Foundation | Corporate Practices in Response to the Impact of COVID-19 on Corporate Governance | 3     |
| 2020/09/21  | Taiwan Stock Exchange                          | "Corporate Governance 3.0 – Sustainable Development Blueprint" Summit             | 3     |
| 2020/10/26  | Taiwan Institute of Directors                  | Opportunities and challenges of companies under the US-China trade conflict       | 3     |
| Total Hours of Education within the most recent year of Appointment |  |   |       |

### 5. Manager Training Records

Miin Chyou Wu, Chih-Yuan Lu, Dang-Hsing Yiu, Ful-Long Ni, and Pei-Fu Yeh are also managers of the Company. Please refer to the table above for the training records. Corporate governance training records for other managers and the audit supervisors of the Company in the most recent year are as follows:

| Title  | Name          | Date       | Organizer   | Course Name  | Hours |
|--|---------------|------------|---|--|-------|
| Vice President                               | Yen-Hai Chao  | 2020/04/28 | Taiwan Corporate<br>Governance<br>Association           | Response Strategy for Company<br>Changes   | 3     |
|  |               | 2020/07/30 | Taiwan Corporate<br>Governance<br>Association           | How companies make<br>breakthroughs in their<br>profitability through innovation<br>in the digital economy era | 3     |
|  |               | 2020/10/26 | Taiwan Institute of Directors                           | Opportunities and challenges of companies under the US-China trade conflict                                    | 3     |
|  |               | 2020/10/29 | Taiwan Corporate<br>Governance<br>Association           | Discussion of how companies use employee compensation strategies and tools                                     | 3     |
| Deputy Director<br>of the Auditing<br>Office | Hong-Chi Wang | 2020/04/28 | Taiwan Corporate<br>Governance<br>Association           | Response Strategy for Company<br>Changes   | 3     |
|  |               | 2020/10/06 | The Institute of Internal<br>Auditors-Chinese<br>Taiwan | How to detect and prevent fraud and case study   | 6     |
|  |               | 2020/10/08 | The Institute of Internal<br>Auditors-Chinese<br>Taiwan | Introduction to the Ethical<br>Corporate Management Best<br>Practice Principles and ISO<br>37001 practices     | 6     |
|  |               | 2020/10/26 | Taiwan Institute of<br>Directors                        | Opportunities and challenges of companies under the US-China trade conflict                                    | 3     |

#### 6. Implementation of Board Diversity Policy

Board diversity goals and implementation status are as follows:

- (1) The Board of Directors is required to have members with professional knowledge, technology, or experience in, at a minimum, industrial technology, law, and accounting, in which more than half of all directors must have a background or experience in industrial technology, at least 1 director must be a legal expert, and at least 1 director must be an accounting expert.
- (2) The Board of Directors is required to have members of different gender.

The abilities possessed by the Board of Directors as a whole meets the Company's needs for future development and comply with the Board diversity policy. Implementation of the Board diversity policy in 2020 is as follows:

- (1)Over 90% of directors have a background or experience in industrial technology, in addition to that, 1 has a background in law, 4 have a background in accounting, 6 have a background in education, 5 have a background in marketing, and 1 has a background in public relations.
- (2)2 of the 15 directors are female.

|  |        | Professional Background  |     |                         |           |           |                     |  |
|--|--------|--------------------------|-----|-------------------------|-----------|-----------|---------------------|--|
| Name   | Gender | Industrial<br>Technology | Law | Financial<br>Accounting | Education | Marketing | public<br>relations |  |
| Miin Chyou Wu  | Male   | ✓                        |     |                         |           | ✓         |                     |  |
| Chien Hsu Investment Corporation Representative: Ching-Yun Li      | Female |                          |     |                         |           |           | <b>✓</b>            |  |
| Chih-Yuan Lu   | Male   | ✓                        |     |                         | ✓         | ✓         |                     |  |
| Shun Yin<br>Investment Ltd.<br>Representative:<br>Shigeki Matsuoka | Male   | <b>√</b>                 |     |                         |           | <b>√</b>  |                     |  |
| Cheng-Yi Fang  | Male   | <b>✓</b>                 |     | <b>✓</b>                |           | ✓         |                     |  |
| Chung-Laung Liu<br>(Note)  | Male   | ✓                        |     |                         | ✓         |           |                     |  |
| Achi Capital<br>Limited<br>Representative:<br>Guei-Min Lee         | Female | <b>✓</b>                 | ✓   |                         | <b>√</b>  |           |                     |  |
| Che-Ho Wei   | Male   | ✓                        |     |                         |           |           |                     |  |
| Dang-Hsing Yiu   | Male   | ✓                        |     |                         |           | ✓         |                     |  |
| Ful-Long Ni  | Male   | ✓                        |     |                         |           |           |                     |  |
| Hui Ying<br>Investment Ltd.<br>Representative:<br>Pei-Fu Yeh       | Male   | <b>√</b>                 |     | <b>✓</b>                |           |           |                     |  |
| Tyzz-Jiun Duh  | Male   | ✓                        |     |                         | ✓         |           |                     |  |
| Chiang Kao   | Male   | ✓                        |     | ✓                       | ✓         |           |                     |  |
| Yan-Kuin Su  | Male   | ✓                        |     |                         | ✓         |           |                     |  |
| John C.F. Chen   | Male   | ✓                        |     | ✓                       |           |           |                     |  |

Note: Mr. Chung-Laung Liu passed away on November 7, 2020

#### 7. Succession planning for Board members and management

#### (1) Succession planning for Board members

The Company's Articles of Incorporation clearly state that the candidate nomination system is used for direction election. Board composition is planned in accordance with the Corporate Governance Principles, Regulations for Director/Supervisor Election, and Nomination Committee Charter, and professionals in industrial technology, law, and accounting are recruited in coordination with the Company's development blueprint and Board diversity policy. Besides irregularly providing directors with continuing education information, the Company regularly schedules directors to take continuing education courses; options include corporate governance, internal control system, and financial reporting responsibility courses. Completion of such courses will continue to improve directors' professional knowledge and skills, and director succession planning and candidates are arranged on this basis.

#### (2) Succession planning for management

Courses for supervisors are offered every year to train managers at all levels and cultivate sufficient managerial talent. Senior executives periodically participate in important cross-departmental business meetings and strategy planning meetings with the president. Discussions during the meetings serve as the basis for establishing the succession team. We also established a talent pool system to examine high-potential talent at any time, and accurately select a succession team.

### (X) Implementation of Internal Control System

1. Internal Control System Statement

## Macronix International Co., Ltd. Internal Control System Statement

Date: 26 January 2021

The Company states the following with regard to its internal control system during the period from 1 January 2020 to 31 December 2020, based on the findings of a self-assessment:

- 1. The Company is fully aware that establishing, operating, and maintaining an internal control system are the responsibility of its Board of Directors and management. The Company has established such a system aimed at providing reasonable assurance of the achievement of objectives in the effectiveness and efficiency of operations (including profits, performance, and safeguard of asset security), reliability, timeliness, transparency and regulatory compliance of reporting, and compliance with applicable laws, regulation and bylaws.
- 2. An internal control system has inherent limitations. No matter how perfectly designed, an effective internal control system can provide only reasonable assurance of accomplishing the three goals mentioned above. Furthermore, the effectiveness of an internal control system may change along with changes in environment or circumstances. The internal control system of the Company contains self-monitoring mechanisms, however, and the Company takes corrective actions as soon as a deficiency is identified.
- 3. The Company judges the design and operating effectiveness of its internal control system based on the criteria provided in the Regulations Governing the Establishment of Internal Control Systems by Public Companies (herein below, the "Regulations"). The internal control system judgment criteria adopted by the Regulations divide internal control into five elements based on the process of management control: 1. control environment 2. risk assessment 3. control activities 4. information and communications 5. monitoring activities. Each element further contains several items. Please refer to the Regulations for details.
- 4. The Company has assessed the design and operating effectiveness of its internal control system according to the aforesaid criteria.
- 5. Based on the findings of the assessment mentioned in the preceding paragraph, the Company believes that as of December 31, 2020 its internal control system (including its supervision of subsidiaries), encompassing internal controls for understanding of the degree of achievement of operational effectiveness and efficiency objectives, reliability, timeliness, transparency and regulatory compliance of reporting, and compliance with applicable laws, regulation and bylaws, was effectively designed and operating, and reasonably assured the achievement of the above-stated objectives.
- 6. This Statement will become a major part of the content of the Company's Annual Report and Prospectus, and will be made public. Any falsehood, concealment, or other illegality in the content made public will entail legal liability under Articles 20, 32, 171, and 174 of the Securities and Exchange Law.
- 7. This statement has been passed by the Board of Directors Meeting of the Company held on 26 January 2021, with zero of the 14 attending directors expressing dissenting opinions, and the remainder all affirming the content of this Statement.

Macronix International Co., Ltd.

Chairman: Miin Wu President: C.Y. Lu

2. If the company engages an accountant to examine its internal control system, disclose the CPA examination report: None.

- (XI) Penalty against the company or its internal personnel, or any disciplinary penalty by the company against its internal personnel for violation of the internal control system, during the most recent fiscal year or during the current fiscal year up to the publication date of the annual report, where the result of such penalty could have a material effect on shareholder equity or securities prices, the annual report shall disclose the penalty, the main shortcomings, and condition of improvement: None
- (XII) Major Resolutions of Shareholders' Meeting and Board Meetings during the Most Recent Fiscal Year and Up to the Printing Date of this Annual Report:

1.2020 Major Resolutions of Shareholders' Meeting

| Major resolutions                                 | Review of implementation                               |
|---|--|
| 1. Ratification of 2019 Business Report and       | Resolution announced in accordance with Article 230 of |
| Financial Statements                              | the Company Act  |
| 2. Ratification of the Company's 2019             | August 1, 2021 was set as the Ex-dividend Record Date  |
| Distribution                                      | and cash dividends were paid on August 28, 2021. Due   |
|   | to the Company's outstanding common shares varied,     |
|   | the cash dividends per share to be distributed was     |
|   | adjusted from NT\$1.2, determined by the Shareholders' |
|   | Meeting, to NT\$1.18940290.                            |
| 3. Approval of fund raising by issuance of new    | The capital increase proposal was approved but was not |
| shares, overseas depositary receipts through      | carried out in 2020. The capital increase proposal was |
| cash capital increase, and/or the private         | approved by the Board of Directors again on February   |
| placement of common shares and/or domestic        | 26, 2021 and submitted to the 2021 Annual              |
| or overseas convertible bonds                     | Shareholders' Meeting.                                 |
| 4. Approval of releasing competition restrictions | Resolution and announcement according to law.          |
| of the directors                                  |  |

## 2. Major resolutions adopted by the Board of Directors in the Most Recent Year up to the Publication Date

| Board of Directors                      | Date       | Major Resolutions   |  |
|---|------------|---|--|
| The 4th meeting of the 11th             | 2020.02.17 | 1. Approval of the record date of the capital reduction for the |  |
| term of the Board of Directors          |            | redeemed shares of employee Restricted Stock Awards             |  |
|   |            | 1. Approval of the Company's 2019 Distribution Plan             |  |
|   |            | 2. Approval of fund raising by issuance of new shares, overseas |  |
|   |            | depositary receipts through cash capital increase, and/or the   |  |
| The 5th meeting of the 11 <sup>th</sup> |            | private placement of common shares and/or domestic or           |  |
| term of the Board of Directors          |            | overseas convertible bonds                                      |  |
| term of the Board of Directors          |            | 3. Board of Directors resolved to convene the 2020 Annual       |  |
|   |            | Shareholders Meeting.   |  |
|   |            | 4. Board of Directors approved the proposal of                  |  |
|   |            | "Terminating 6-inch Fab Operation".                             |  |
| The 7th meeting of the 11th             |            | 1. Board of Directors approved the donation to National Cheng   |  |
| Term of the Board of                    | 2020.06.02 | Kung University   |  |
| Directors                               |            | 2. Board of Directors approved the capital expenditure budget   |  |

| Board of Directors           | Date       | Major Resolutions   |
|------------------------------|------------|---|
| The 8th meeting of the 11th  |            | 1. Approval of the record date of the capital reduction for the |
| Term of the Board of         | 2020.07.28 | redeemed shares of employee Restricted Stock Awards             |
| Directors                    |            |   |
| The 10th meeting of the 11th |            | 1. Board of Directors approved the capital expenditure budget   |
| Term of the Board of         | 2020.12.24 | 2. Board of Directors approved the year 2021 donation to        |
| Directors                    |            | Macronix Education Foundation                                   |
| The 11th meeting of the 11th |            | 1. Approval of the record date of the capital reduction for the |
| Term of the Board of         | 2021.01.26 | redeemed shares of employee Restricted Stock Awards             |
| Directors                    |            |   |
|                              |            | 1. Approval of the Company's 2020 Distribution Plan             |
|                              |            | 2. Approval of fund raising by issuance of new shares, overseas |
| The 12th meeting of the 11th |            | depositary receipts through cash capital increase, and/or the   |
| Term of the Board of         | 2021.02.26 | private placement of common shares and/or domestic or           |
| Directors                    |            | overseas convertible bonds                                      |
|                              |            | 3. Board of Directors resolved to convene the 2020 Annual       |
|                              |            | Shareholders Meeting.   |

- (XIII) Major Issues of Record or Written Statements Made by Any Director or Supervisor Dissenting to Important Resolutions Passed by the Board of Directors: None.
- (XIV) In the Most Recent Fiscal Year and Up to the Printing Date of this Annual Report, A Summary of the Resignation and Dismissal of Chairman, President, and Heads of Accounting, Finance, Internal Audit, Corporate Governance and R&D: None.

#### V. CPA Fees

Unit: NT\$ thousands

| Assaunting         |                                | Andie        |           | Non-A        |          | Period |          |                           |   |
|--------------------|--------------------------------|--------------|-----------|--------------|----------|--------|----------|---------------------------|---|
| Accounting<br>Firm | Name of CPA                    | Audit<br>Fee | System of | Company      | Human    | Others | Subtotal | Covered by                | Remarks   |
| T II III           |                                | 1.66         | Design    | Registration | Resource | Others | Subtotal | CPA's Audit               |   |
| Deloitte &         | Tung Hui Yeh<br>Ching Pin Shih | 6,645        | -         | 105          | -        | 1,130  | 1,235    | 01/01/2020<br>~06/30/2020 | Other non-<br>audit fees are<br>mainly for<br>the transfer<br>pricing |
|                    | Tung Hui Yeh<br>Kuo Tyan Hong  |              |           |              |          |        |          | 07/01/2020<br>~12/31/2020 | service fees<br>and other<br>services.                                |

- (I) When the Non-Audit Fees Paid to the CPAs, their Firm, and the Affiliated Companies Account for 25% or more of the Audit Fees, the Sum of the Audit and Non-Audit Fees and the Content of Non-Audit Service Must be Disclosed: Not applicable.
- (II) Where The Accounting Firm Changed the Audit Partners and the Audit Fee Paid for the Year is Less than that of the Previous Year, the Sum, Proportion, and Cause of the Reduction Shall be Disclosed: Not applicable.
- (III) Where the Audit Fee Paid for the Year is Reduced by more than 10% Compared to that of the Previous Year, the Sum, Proportion, and Cause of the Reduction Shall be Disclosed: Not applicable.

# VI. CPA Information:

# (I) Regarding the former CPA

| Replacement Date  | 2019.12.23   | }          |         |          | 2020.10.26  |             |  |
|---|--|------------|---------|----------|---|-------------|--|
| Replacement reasons and explanations  | originally Ming-Hui Chen and Benjamin Shih from Deloitte & Touche. To ensure the independence of appointed accountants, starting from 2020Q1, accountants Tung-Hui Yeh and Ching Pin Shih were appointed to audit Macronix's financial |            |         |          | Macronix's accountants were originally Tung Hui Yeh and Ching Pin Shih from Deloitte & Touche. Starting in 2020Q3, accountants Tung-Hui Yeh and Kuo Tyan Hong were appointed to audit Macronix's financial statements in coordination with adjustments to internal operations by Deloitte & Touche. |             |  |
| Describe whether the Company terminated or the  | Status   |            |         |          | СРА   | The Company |  |
| CPA did not accept the appointment  | Termination of appointment   |            |         |          | _   | _           |  |
|   | No longer accepted (continued) appointment   |            |         |          |   |             |  |
| Other issues (except for unqualified issues) in the audit reports within the last two years | None   |            |         |          |   |             |  |
|   |  |            |         |          | nciples or pra  |             |  |
|   | Yes  |            |         |          | Financial State   | ments       |  |
| Differences with the company  |  | _          | Others  | scope or | steps   |             |  |
|   | None   | _          | Onters  | •        |   |             |  |
|   |  | pecify det | ails: : |          |   |             |  |
| Describe whether the Company terminated or the CPA did not accept the appointment           | Remarks/specify details: : —  None   |            |         |          |   |             |  |

(II) Regarding the successor CPA

| Name of accounting firm   | Deloitte & Touche              |                               |  |  |
|---|--------------------------------|-------------------------------|--|--|
| Name of CPA   | Tung Hui Yeh<br>Ching Pin Shih | Tung Hui Yeh<br>Kuo Tyan Hong |  |  |
| Date of appointment   | 2019.12.23                     | 2020.10.26                    |  |  |
| Consultation results and opinions on accounting treatments or principles with respect to specified transactions and the company's financial reports that the CPA might issue prior to the engagement. | No                             | one                           |  |  |
| Succeeding CPA's written opinion of disagreement toward the former CPA  | No                             | one                           |  |  |

(III) Reply from the previous accountant to Items A and B, Subparagraph 5, Article 10 of the Regulations Governing Information to be Published in Annual Reports of Public Companies: Not applicable.

VII. If Chairman, President, or Chief Financial Officer Holding Positions at the Independent Audit Firm or its Affiliated Company within the Most Recent Fiscal Year: None.

VIII. Equity Transfer and Pledge by Directors, Supervisors, Managers and/or Shareholders, Who Hold More Than 10% of outstanding Shares, in the Most Recent Fiscal Year and Up to the Printing Date of this Annual Report

|                         |  | 20                     | 20                     | up to Mar              | ch 30, 2021            |
|-------------------------|--|------------------------|------------------------|------------------------|------------------------|
| Title                   | Name   | Increase (decrease) in | Increase (decrease) in | Increase (decrease) in | Increase (decrease) in |
| Chairman / CEO          | Miin Chyou Wu                                | shares held<br>320,000 | shares pledged         | shares held            | shares pledged         |
|                         | Chien Hsu Investment<br>Corporation (Note 1) | 0                      | 0                      | 0                      | 0                      |
| Director                | Representative : Ching-<br>Yun Li            | 0                      | 0                      | 0                      | 0                      |
| Director /<br>President | Chih-Yuan Lu                                 | 168,000                | 0                      | 0                      | 0                      |
|                         | Shun Yin Investment Ltd.                     | 0                      | 0                      | 0                      | 0                      |
| Director                | Representative : Shigeki<br>Matsuoka         | 0                      | 0                      | 0                      | 0                      |
| Director                | Cheng-Yi Fang                                | 0                      | 0                      | 0                      | 0                      |
| Director                | Chung-Laung Liu(Note 2)                      | Omitted                | Omitted                | Omitted                | Omitted                |
|                         | Achi Capital Limited                         | 0                      | 0                      | 0                      | 0                      |
| Director                | Representative : Guei-Min Lee (Note 3)       | 0                      | 0                      | 19,446                 | 0                      |

|   |  | 20                                       | 20  | up to Mar                                | ch 30, 2021                                 |
|---|--|--|---|--|---|
| Title   | Name   | Increase<br>(decrease) in<br>shares held | Increase<br>(decrease) in<br>shares pledged | Increase<br>(decrease) in<br>shares held | Increase<br>(decrease) in<br>shares pledged |
| Director  | Che-Ho Wei   | 0  | 0   | 0  | 0   |
| Director / Senior<br>Vice President &<br>Chief Marketing<br>Officer | Dang-Hsing Yiu   | 32,000                                   | 0   | 0  | 0   |
| Director / Vice<br>President  | Ful-Long Ni  | 112,000                                  | 0   | 0  | 0   |
| Director / Vice<br>President  | Hui Ying Investment Ltd.<br>Representative:<br>Pei-Fu Yeh (Note 4) | (45,000)                                 | 0   | 0  | 0   |
| Independent<br>Director   | Tyzz-Jiun Duh  | (45,000)                                 | 0   | 0  | 0   |
| Independent<br>Director   | Chiang Kao   | 0  | 0   | 0  | 0   |
| Independent<br>Director   | Yan-Kuin Su  | 0  | 0   | 0  | 0   |
| Independent<br>Director   | John C.F. Chen   | 0  | 0   | 0  | 0   |
| Vice President  | Yen-Hie Chao   | 80,000                                   |   | 0  | 0   |
| Vice President  | Chun-Hsiung Hung   | 48,000                                   | 0   | 0  | 0   |
| Vice President  | Jui-Kun Chen   | 100,000                                  | 0   | 0  | 0   |
| Vice President  | Jon-Ten Chung  | 100,000                                  | 0   | 0  | 0   |
| Associate V.P.  | Kuang-Chao Chen  | 80,000                                   | 0   | 0  | 0   |
| Executive Director  | Wen-Pin Lu   | 30,000                                   | 0   | 0  | 0   |
| Executive Director  | Hsin-Cheng Liu (Note 5)  | 29,000                                   | 0   | 0  | 0   |
| Executive<br>Director   | Kai-Wen Tu (Note 5)  | 32,000                                   | 0   | 0  | 0   |
| Executive Director  | Ting-Chang Lin(Note 5)   | 18,000                                   | 0   | 0  | 0   |
| Executive Director  | Kun-Lung Chang (Note 5)  | 40,000                                   | 0   | 0  | 0   |
| Project Executive<br>Director                                       | Chuan-Hsien Wen (Note 6)   | 0  | 0   | Omitted                                  | Omitted                                     |
| Director  | Hui-Chi Li   | 6,400                                    | 0   | 0  | 0   |

Note 1: Chien Hsu Investment Co., Ltd. appointed Ms. Ching-Yun Li on July 26, 2019, to attend the 11th Term of the Board of Directors and exercised any and all Director's rights thereof.

Note 2: Mr. Chung-Laung Liu passed away on November 7, 2020

Note 3: Ms. Guei-Min Lee was appointed to represent it to attend the 11th Term of the Board of Directors and exercised any and all Director's rights thereof.

Note 4: Mr. Pei-Fu Yeh was appointed to represent it to attend the 11th Term of the Board of Directors and exercised any and all Director's rights thereof.

Note 5: Promoted to Executive Director on April 28, 2020

Note 6: Retired on March 5, 2021

Note 7: The counterparts of equity transfer or equity pledge in the table above are not related party.

# IX. Relationship Among the Top Ten Shareholders

March 30 2021

|  |                      |       |                                  |      |   |      |   | March        | 30 2021 |
|--|----------------------|-------|----------------------------------|------|---|------|---|--------------|---------|
| Name   | Current Shareholding |       | Spouse's/minor's<br>Shareholding |      | Shareholding<br>by Nominee<br>Arrangement |      | Name and<br>Relationship Between<br>the Company's Top<br>Ten Shareholders, or<br>Spouses or Relatives<br>Within Two Degrees |              | Remarks |
|  | Shares               | %     | Shares                           | %    | Shares                                    | %    | Name  | Relationship |         |
| New Labor Pension Fund   | 49,435,906           | 2.66% | None                             | None | None                                      | None | None  | None         |         |
| Cathay Life Insurance<br>Representative:<br>Tiao-Kuei Huang  | 44,084,000           | 2.37% | None                             | None | None                                      | None | None  | None         |         |
| Public Service Pension<br>Fund Management Board  | 29,156,000           | 1.57% | None                             | None | None                                      | None | None  | None         |         |
| Vanguard Emerging Markets Stock Index Fund A Series Of Vanguard International Equity Index Funds   | 24,897,737           | 1.34% | None                             | None | None                                      | None | None  | None         |         |
| JPMorgan Chase Bank<br>N.A. Taipei Branch in<br>custody for Vanguard Total<br>International Stock Index<br>Fund a series of Vanguard<br>Star Funds | 22,849,546           | 1.23% | None                             | None | None                                      | None | None  | None         |         |
| Shun Yin Investment Ltd.   | 22,587,265           | 1.22% | None                             | None | None                                      | None | None  | None         |         |
| Representative:<br>Shigeki Matsuoka  | None                 | None  | None                             | None | None                                      | None | None  | None         |         |
| Syue-Rong Shen   | 21,700,000           | 1.17% | None                             | None | None                                      | None | None  | None         |         |
| Allianz Glbl Inv Taiwan<br>Tech  | 21,000,000           | 1.13% | None                             | None | None                                      | None | None  | None         |         |
| Old Labor Pension Fund   | 20,399,000           | 1.10% | None                             | None | None                                      | None | None  | None         |         |
| Miin Chyou Wu  | 13,060,809           | 0.70% | None                             | None | None                                      | None | None  | None         |         |

Notes: There was no information on the person responsible for the investment account.

# X. The Total and Combined Shareholding in A Single Enterprise by the Company, its Directors, Supervisors, Managers, and the Directly or Indirectly Controlled Entities

December 31, 2020 Unit: shares/ %

| Affiliated Enterprises (Note) | Ownership<br>Compar | •       | Direct or<br>Owners<br>Directors/St<br>Mana | hip by upervisors/ | Total Ownership |         |  |
|-------------------------------|---------------------|---------|---|--------------------|-----------------|---------|--|
|                               | Shares              | %       | Shares                                      | %                  | Shares          | %       |  |
| Macronix America, Inc.        | 100,000             | 100.00% | 0   | 0%                 | 100,000         | 100.00% |  |
| Macronix (BVI) Co., Ltd.      | 212,048,000         | 100.00% | 0   | 0%                 | 212,048,000     | 100.00% |  |
| Hui Ying Investment Ltd.      | None                | 100.00% | None  | 0%                 | None            | 100.00% |  |
| Run Hong Investment Ltd.      | None                | 100.00% | None  | 0%                 | None            | 100.00% |  |
| Mxtran Inc.                   | 69,627,323          | 90.43%  | 3,614,600                                   | 4.69%              | 73,241,923      | 95.12%  |  |

Note: Invested by the Company using the equity method.

# **Chapter IV Capital Overview**

# I. Capital and Shares

# (I) Source of capital

|                |                | Authori                     | zed capital        | Paid-u             | p capital       | Comments   |   |        |
|----------------|----------------|-----------------------------|--------------------|--------------------|-----------------|--|---|--------|
| Year/<br>month | Issue<br>price | Shares<br>(1,000<br>shares) | Amount (NT\$1,000) | Shares<br>(shares) | Amount<br>(NTD) | Source of capital  | Subscriptions<br>paid with<br>property other<br>than cash | Other  |
| 1989.12        | -              | 150,000                     | 1,500,000          | 81,583,000         | 815,830,000     | Established with a capital of NT\$815,830,000  | 5,200,000<br>technology<br>shares                         | -      |
| 1990.12        | 10             | 300,000                     | 3,000,000          | 209,717,000        | 2,097,170,000   | Cash capital increase in the amount of NT\$1,281,340,000                                     | -   | Note 1 |
| 1992.06        | 10             | 300,000                     | 3,000,000          | 239,717,000        | 2,397,170,000   | Cash capital increase in the amount of NT\$300,000,000                                       | -   | Note 2 |
| 1993.05        | 10             | 300,000                     | 3,000,000          | 300,000,000        | 3,000,000,000   | Cash capital increase in the amount of NT\$602,830,000                                       | -   | Note 3 |
| 1995.02        | 28.5           | 500,000                     | 5,000,000          | 350,000,000        | 3,500,000,000   | Cash capital increase in the amount of NT\$500,000,000                                       | -   | Note 4 |
| 1995.08        | -              | 500,000                     | 5,000,000          | 433,218,172        | 4,332,181,720   | Capital increase out of earnings in the amount of NT\$832,181,720                            | -   | -      |
| 1995.12        | 40             | 500,000                     | 5,000,000          | 500,000,000        | 5,000,000,000   | Cash capital increase in the amount of NT\$667,818,280                                       | -   | Note 5 |
| 1996.05        | 48             | 850,000                     | 8,500,000          | 600,000,000        | 6,000,000,000   | Issuance of GDRs in the amount<br>of NT\$1,000,000,000 for cash<br>capital increase          | -   | Note 6 |
| 1996.08        | -              | 1,160,000                   | 11,600,000         | 941,676,940        | 9,416,769,400   | Earnings and capital surplus in the amount of NT\$3,416,769,400 transferred to capital       | -   | -      |
| 1997.04        | -              | 1,160,000                   | 11,600,000         | 945,824,135        | 9,458,241,350   | Corporate bonds conversion in the amount of NT\$41,471,950                                   | -   | -      |
| 1997.07        | -              | 2,500,000                   | 25,000,000         | 1,274,939,621      | 12,749,396,210  | Earnings and capital surplus in the<br>amount of NT\$3,291,154,860<br>transferred to capital | -   | -      |
| 1997.08        | -              | 2,500,000                   | 25,000,000         | 1,415,586,910      | 14,155,869,100  | Corporate bonds conversion in the amount of NT\$1,406,472,890                                | -   | -      |
| 1997.12        | -              | 2,500,000                   | 25,000,000         | 1,441,815,433      | 14,418,154,330  | Corporate bonds conversion in the amount of NT\$262,285,230                                  | -   | -      |
| 1998.03        | -              | 2,500,000                   | 25,000,000         | 1,442,334,998      | 14,423,349,980  | Corporate bonds conversion in the amount of NT\$5,195,650                                    | -   | -      |
| 1998.08        | -              | 2,500,000                   | 25,000,000         | 1,785,823,693      | 17,858,236,930  | Earnings and capital surplus in the<br>amount of NT\$3,434,886,950<br>transferred to capital | -   | -      |
| 1999.09        | -              | 2,500,000                   | 25,000,000         | 1,964,406,063      | 19,644,060,630  | Capital surplus in the amount of   | -   | -      |
| 2000.03        | 30             | 2,500,000                   | 25,000,000         | 2,099,996,063      | 20,999,960,630  | Cash capital increase in the amount of NT\$1,355,900,000                                     | -   | Note 7 |
| 2000.03        | -              | 2,500,000                   | 25,000,000         | 2,126,074,584      | 21,260,745,840  | Convertible bonds conversion in the amount of NT\$260,785,210                                | -   | -      |
| 2000.03        | -              | 2,500,000                   | 25,000,000         | 2,127,526,851      | 21,275,268,510  | Convertible bonds conversion in the amount of NT\$14,522,670                                 | -   | -      |
| 2000.07        | -              | 3,500,000                   | 35,000,000         | 2,404,105,343      | 24,041,053,430  | Earnings and capital surplus in the amount of NT\$2,765,784,920 transferred to capital       | -   | -      |
| 2000.07        | -              | 3,500,000                   | 35,000,000         | 2,472,586,493      | 24,725,864,930  | Corporate bonds conversion in the amount of NT\$684,811,500                                  | -   | -      |
| 2000.12        | -              | 3,500,000                   | 35,000,000         | 2,474,409,144      | 24,744,091,440  | Corporate bonds conversion in the amount of NT\$18,226,510                                   | -   | -      |
| 2001.06        | -              | 4,500,000                   | 45,000,000         | 3,359,342,613      | 33,593,426,130  | Earnings and capital surplus in the amount of NT\$8,849,334,690 transferred to capital       | -   | -      |

|                |                | Authori                     | zed capital        | Paid-u             | p capital       | Comments  |   |         |
|----------------|----------------|-----------------------------|--------------------|--------------------|-----------------|---|---|---------|
| Year/<br>month | Issue<br>price | Shares<br>(1,000<br>shares) | Amount (NT\$1,000) | Shares<br>(shares) | Amount<br>(NTD) | Source of capital   | Subscriptions<br>paid with<br>property other<br>than cash | Other   |
| 2002.08        | -              | 5,350,000                   | 53,500,000         | 3,691,276,875      | 36,912,768,750  | Capital surplus in the amount of NT\$3,319,342,620 transferred to capital     | -   | -       |
| 2003.04        | -              | 5,350,000                   | 53,500,000         | 3,733,149,529      | 37,331,495,290  | Corporate bonds conversion in the amount of NT\$418,726,540                   | -   | -       |
| 2003.07        | -              | 5,350,000                   | 53,500,000         | 3,779,349,500      | 37,793,495,000  | Corporate bonds conversion in the amount of NT\$461,999,710                   | -   | -       |
| 2003.11        | -              | 5,350,000                   | 53,500,000         | 3,927,758,305      | 39,277,583,050  | Corporate bonds conversion in the amount of NT\$1,484,088,050                 | -   | -       |
| 2003.12        | 8.11           | 6,550,000                   | 65,500,000         | 4,402,758,305      | 44,027,583,050  | Cash capital increase in the amount of NT\$4,750,000,000                      | -   | Note 8  |
| 2004.03        | -              | 6,550,000                   | 65,500,000         | 4,430,251,943      | 44,302,519,430  | Corporate bonds conversion in the amount of NT\$274,936,380                   | -   | -       |
| 2004.04        | 10.9           | 6,550,000                   | 65,500,000         | 4,955,251,943      | 49,552,519,430  | Issuance of GDRs in the amount of NT\$5,250,000,000 for cash capital increase | -   | Note 9  |
| 2004.05        | -              | 6,550,000                   | 65,500,000         | 5,003,704,439      | 50,037,044,390  | Corporate bonds conversion in the amount of NT\$484,524,960                   | -   |         |
| 2004.09        | -              | 6,550,000                   | 65,500,000         | 5,034,928,514      | 50,349,285,140  | Corporate bonds conversion in the amount of NT\$312,240,750                   | -   | -       |
| 2004.11        | -              | 6,550,000                   | 65,500,000         | 5,035,296,328      | 50,352,963,280  | Corporate bonds conversion in the amount of NT\$3,678,140                     | -   | -       |
| 2005.09        | -              | 6,550,000                   | 65,500,000         | 4,995,296,328      | 49,952,963,280  | Decrease in treasury stock in the amount of NT\$400,000,000                   | -   | -       |
| 2006.03        | -              | 6,550,000                   | 65,500,000         | 2,915,821,786      | 29,158,217,860  | Capital reduction in the amount of NT\$20,794,745,420                         | -   | Note 10 |
| 2006.03        | 8.07           | 6,550,000                   | 65,500,000         | 2,915,921,786      | 29,159,217,860  | Private placement in the amount of NT\$1,000,000                              | -   | -       |
| 2007.02        | -              | 6,550,000                   | 65,500,000         | 2,916,157,808      | 29,161,578,080  | Exercise of employee stock options in the amount of NT\$2,360,220             | -   | -       |
| 2007.04        | -              | 6,550,000                   | 65,500,000         | 2,916,415,946      | 29,164,159,460  | Exercise of employee stock options in the amount of NT\$2,581,380             | -   | -       |
| 2007.09        | -              | 6,550,000                   | 65,500,000         | 2,917,058,354      | 29,170,583,540  | Exercise of employee stock options in the amount of NT\$6,424,080             | -   | -       |
| 2007.10        | -              | 6,550,000                   | 65,500,000         | 2,978,817,751      | 29,788,177,510  | Capital increase out of earnings in the amount of NT\$617,593,970             | -   | -       |
| 2007.11        | -              | 6,550,000                   | 65,500,000         | 3,050,653,298      | 30,506,532,980  | Exercise of employee stock options in the amount of NT\$718,355,470           | -   | -       |
| 2008.02        | -              | 6,550,000                   | 65,500,000         | 3,060,226,622      | 30,602,266,220  | Exercise of employee stock options in the amount of NT\$95,733,240            | -   | -       |
| 2008.05        | -              | 6,550,000                   | 65,500,000         | 3,062,751,980      | 30,627,519,800  | Exercise of employee stock options in the amount of NT\$25,253,580            | 1   | 1       |
| 2008.08        | -              | 6,550,000                   | 65,500,000         | 3,063,677,465      | 30,636,774,650  | Exercise of employee stock options in the amount of NT\$9,254,850             | -   | -       |
| 2008.09        | -              | 6,550,000                   | 65,500,000         | 3,124,019,472      | 31,240,194,720  | Capital increase out of earnings in the amount of NT\$603,420,070             | -   | -       |
| 2008.11        | -              | 6,550,000                   | 65,500,000         | 3,126,296,368      | 31,262,963,680  | Exercise of employee stock options in the amount of NT\$22,768,960            | -   | -       |
| 2009.02        | -              | 6,550,000                   | 65,500,000         | 3,126,775,749      | 31,267,757,490  | Exercise of employee stock options in the amount of NT\$4,793,810             | -   | -       |
| 2009.02        | -              | 6,550,000                   | 65,500,000         | 3,123,962,749      | 31,239,627,490  | Decrease in treasury stock in the amount of NT\$28,130,000                    | -   | -       |

|                |                | Authoriz                    | zed capital        | Paid-u             | p capital       | Comments  |   |       |
|----------------|----------------|-----------------------------|--------------------|--------------------|-----------------|---|---|-------|
| Year/<br>month | Issue<br>price | Shares<br>(1,000<br>shares) | Amount (NT\$1,000) | Shares<br>(shares) | Amount<br>(NTD) | Source of capital   | Subscriptions<br>paid with<br>property other<br>than cash | Other |
| 2009.05        | -              | 6,550,000                   | 65,500,000         | 3,135,134,847      | 31,351,348,470  | Exercise of employee stock options in the amount of NT\$111,720,980         | 1   | 1     |
| 2009.08        | -              | 6,550,000                   | 65,500,000         | 3,147,538,945      | 31,475,389,450  | Exercise of employee stock options in the amount of NT\$124,040,980         | 1   | 1     |
| 2009.09        | -              | 6,550,000                   | 65,500,000         | 3,272,552,230      | 32,725,522,300  | Capital increase out of earnings in the amount of NT\$1,250,132,850         | -   | -     |
| 2009.11        | -              | 6,550,000                   | 65,500,000         | 3,289,772,530      | 32,897,725,300  | Exercise of employee stock options in the amount of NT\$172,203,000         | -   | -     |
| 2010.02        | -              | 6,550,000                   | 65,500,000         | 3,303,027,880      | 33,030,278,800  | Exercise of employee stock options in the amount of NT\$132,553,500         | -   | -     |
| 2010.05        | -              | 6,550,000                   | 65,500,000         | 3,330,319,836      | 33,303,198,360  | Exercise of employee stock options in the amount of NT\$272,919,560         | -   | -     |
| 2010.08        | -              | 6,550,000                   | 65,500,000         | 3,350,388,992      | 33,503,889,920  | Exercise of employee stock options in the amount of NT\$200,691,560         | -   | -     |
| 2010.11        | -              | 6,550,000                   | 65,500,000         | 3,355,417,899      | 33,554,178,990  | Exercise of employee stock options in the amount of NT\$50,289,070          | -   | ı     |
| 2011.02        | -              | 6,550,000                   | 65,500,000         | 3,362,301,642      | 33,623,016,420  | Exercise of employee stock options in the amount of NT\$68,837,430          | -   | 1     |
| 2011.05        | -              | 6,550,000                   | 65,500,000         | 3,378,174,280      | 33,781,742,800  | Exercise of employee stock options in the amount of NT\$158,726,380         | -   | -     |
| 2011.08        | -              | 6,550,000                   | 65,500,000         | 3,381,545,259      | 33,815,452,590  | Exercise of employee stock options in the amount of NT\$33,709,790          | -   | ı     |
| 2011.11        | -              | 6,550,000                   | 65,500,000         | 3,382,456,382      | 33,824,563,820  | Exercise of employee stock options in the amount of NT\$9,111,230           | 1   | 1     |
| 2012.02        | -              | 6,550,000                   | 65,500,000         | 3,384,748,566      | 33,847,485,660  | Exercise of employee stock options in the amount of NT\$22,921,840          | -   | -     |
| 2012.05        | -              | 6,550,000                   | 65,500,000         | 3,392,196,696      | 33,921,966,960  | Exercise of employee stock options in the amount of NT\$74,481,300          | ı   | 1     |
| 2012.08        | ı              | 6,550,000                   | 65,500,000         | 3,392,302,064      | 33,923,020,640  | Exercise of employee stock options in the amount of NT\$1,053,680           | ı   | ı     |
| 2012.08        | -              | 6,550,000                   | 65,500,000         | 3,521,142,831      | 35,211,428,310  | Capital increase out of earnings in the amount of NT\$1,288,407,670         | -   | -     |
| 2012.11        | -              | 6,550,000                   | 65,500,000         | 3,521,369,314      | 35,213,693,140  | Exercise of employee stock options in the amount of NT\$2,264,830           | -   | -     |
| 2013.02        | -              | 6,550,000                   | 65,500,000         | 3,521,462,303      | 35,214,623,030  | Exercise of employee stock options in the amount of NT\$929,890             | -   | -     |
| 2014.02        | -              | 6,550,000                   | 65,500,000         | 3,521,473,020      | 35,214,730,200  | Exercise of employee stock options in the amount of NT\$107,170             | -   | -     |
| 2015.01        | -              | 6,550,000                   | 65,500,000         | 3,558,773,970      | 35,587,739,700  | New restricted employee shares in the amount of NT\$373,009,500             | -   | -     |
| 2015.08        | _              | 6,550,000                   | 65,500,000         | 3,620,052,730      | 36,200,527,300  | New restricted employee shares in the amount of NT\$612,787,600             |   | _     |
| 2015.08        | -              | 6,550,000                   | 65,500,000         | 3,618,598,730      | 36,185,987,300  | Reduction of new restricted employee shares in the amount of NT\$14,540,000 | -   | -     |

|                |                | Authori                     | zed capital        | Paid-u             | p capital       | Comments  |   |         |
|----------------|----------------|-----------------------------|--------------------|--------------------|-----------------|---|---|---------|
| Year/<br>month | Issue<br>price | Shares<br>(1,000<br>shares) | Amount (NT\$1,000) | Shares<br>(shares) | Amount<br>(NTD) | Source of capital   | Subscriptions<br>paid with<br>property other<br>than cash | Other   |
| 2015.11        | -              | 6,550,000                   | 65,500,000         | 3,617,848,930      | 36,178,489,300  | Reduction of new restricted<br>employee shares in the amount of<br>NT\$7,498,000        | -   | -       |
| 2016.02        | -              | 6,550,000                   | 65,500,000         | 3,617,159,130      | 36,171,591,300  | Reduction of new restricted<br>employee shares in the amount of<br>NT\$6,898,000        | -   | -       |
| 2016.05        | -              | 6,550,000                   | 65,500,000         | 3,616,471,930      | 36,164,719,300  | Reduction of new restricted<br>employee shares in the amount of<br>NT\$6,872,000        | -   | -       |
| 2016.08        | -              | 6,550,000                   | 65,500,000         | 3,615,716,830      | 36,157,168,300  | Reduction of new restricted<br>employee shares in the amount of<br>NT\$7,551,000        | -   | -       |
| 2016.11        | -              | 6,550,000                   | 65,500,000         | 3,615,353,570      | 36,153,535,700  | Reduction of new restricted<br>employee shares in the amount of<br>NT\$3,632,600        | -   | -       |
| 2017.01        | -              | 6,550,000                   | 65,500,000         | 3,672,829,150      | 36,728,291,500  | New restricted employee shares in the amount of NT\$574,755,800                         | -   | -       |
| 2017.02        | -              | 6,550,000                   | 65,500,000         | 3,672,063,730      | 36,720,637,300  | Reduction of capital for new restricted employee shares in the amount of NT\$7,654,200  | -   | -       |
| 2017.05        | -              | 6,550,000                   | 65,500,000         | 3,671,002,330      | 36,710,023,300  | Reduction of capital for new restricted employee shares in the amount of NT\$10,614,000 | -   | -       |
| 2017.07        | -              | 6,550,000                   | 65,500,000         | 1,805,895,303      | 18,058,953,030  | Capital reduction in the amount of NT\$18,651,070,270                                   | -   | Note 11 |
| 2017.09        | -              | 6,550,000                   | 65,500,000         | 1,805,028,142      | 18,050,281,420  | Reduction of capital for new restricted employee shares in the amount of NT\$8,671,610  | -   | -       |
| 2017.11        | -              | 6,550,000                   | 65,500,000         | 1,804,938,491      | 18,049,384,910  | Reduction of capital for new restricted employee shares in the amount of NT\$896,510    | -   | -       |
| 2018.02        | -              | 6,550,000                   | 65,500,000         | 1,804,775,803      | 18,047,758,030  | Reduction of capital for new restricted employee shares in the amount of NT\$1,626,880  | -   | -       |
| 2018.05        | -              | 6,550,000                   | 65,500,000         | 1,804,478,493      | 18,044,784,930  | Reduction of capital for new restricted employee shares in the amount of NT\$2,973,100  | -   | 1       |
| 2018.09        | -              | 6,550,000                   | 65,500,000         | 1,840,574,009      | 18,405,740,090  | Capital increase out of earnings in the amount of NT\$360,955,160                       | -   | 1       |
| 2018.11        | -              | 6,550,000                   | 65,500,000         | 1,840,291,935      | 18,402,919,350  | Reduction of capital for new restricted employee shares in the amount of NT\$2,820,740  | -   | -       |
| 2019.02        | -              | 6,550,000                   | 65,500,000         | 1,840,166,993      | 18,401,669,930  | Reduction of capital for new restricted employee shares in the amount of NT\$1,249,420  | -   | -       |
| 2019.05        | -              | 6,550,000                   | 65,500,000         | 1,840,144,856      | 18,401,448,560  | Reduction of capital for new restricted employee shares in the amount of NT\$221,370    | -   | -       |
| 2019.08        | -              | 6,550,000                   | 65,500,000         | 1,840,013,422      | 18,400,134,220  | Reduction of capital for new restricted employee shares in the amount of NT\$1,314,340  | -   | -       |
| 2019.11        | -              | 6,550,000                   | 65,500,000         | 1,839,927,014      | 18,399,270,140  | Reduction of capital for new restricted employee shares in the amount of NT\$864,080    | -   | -       |
| 2020.03        | -              | 6,550,000                   | 65,500,000         | 1,839,908,862      | 18,399,088,620  | Reduction of capital for new restricted employee shares in the amount of NT\$181,520    | -   | -       |
| 2020.07        | -              | 6,550,000                   | 65,500,000         | 1,856,309,082      | 18,563,090,820  | New restricted employee shares in the amount of NT\$164,002,200                         | -   | -       |
| 2020.08        | -              | 6,550,000                   | 65,500,000         | 1,856,301,702      | 18,563,017,020  | Reduction of capital for new restricted employee shares in the amount of NT\$73,800     | -   | -       |

|                |                | Authorized capital          |                    | Paid-up capital    |                 | Comments   |   |       |
|----------------|----------------|-----------------------------|--------------------|--------------------|-----------------|--|---|-------|
| Year/<br>month | Issue<br>price | Shares<br>(1,000<br>shares) | Amount (NT\$1,000) | Shares<br>(shares) | Amount<br>(NTD) | Source of capital  | Subscriptions<br>paid with<br>property other<br>than cash | Other |
| 2021.02        | -              | 6,550,000                   | 65,500,000         | 1,856,186,402      | 18,561,864,020  | Reduction of capital for new restricted employee shares in the amount of NT\$1,153,000 | -   | -     |

Note 1: Letter Tai-Cai-Zheng (1)-Zi No. 03305 dated December 7, 1990

Note 2: Letter Tai-Cai-Zheng (1)-Zi No. 03489 dated December 24, 1991

Note 3: Letter Tai-Cai-Zheng (1)-Zi No. 00335 dated February 15, 1993

Note 4: Letter Tai-Cai-Zheng (1)-Zi No. 43729 dated November 5, 1994

Note 5: Letter Tai-Cai-Zheng (1)-Zi No. 49345 dated September 25, 1995

Note 6: Letter Tai-Cai-Zheng (1)-Zi No. 18164 dated March 26, 1996

Note 7: Letter Tai-Cai-Zheng (1)-Zi No. 95699 dated November, 1999

Note 8: Letter Tai-Cai-Zheng-1-Zi No. 0920139445 dated October 15, 2003

Note 9: Letter Tai-Cai-Zheng-1-Zi No. 0920161647 dated January 30, 2004 Note 10: Letter Jin-Guan-Zheng-1-Zi No. 0940156791 dated February 3, 2006

Note 11: Letter Jin-Guan-Zheng-Fa-Zi No. 1060022715 dated June 26, 2017

March 30, 2021 Unit: shares

| Type of stock | Shares issued and outstanding (Note 1) | Un-issued shares | Total         | Remarks |
|---------------|--|------------------|---------------|---------|
| Common stocks | 1,856,186,402                          | 4,693,813,598    | 6,550,000,000 | Note 2  |

Note 1: 1,856,130,751 shares are public shares; 55,651 shares are private placement shares.

Note 2: Retained 650,000,000 shares of authorized capital for employee stock option certificates, and authorized the Board of Directors to issue the certificates in batches as needed. Retained 864,703,672 for conversion to corporate bonds, which may be adjusted by resolution of the Board of Directors in view of the market situation and business needs.

#### (II) Composition of Shareholders

March 30, 2021

| Type of<br>Shareholders     | Government<br>Agencies | Financial<br>Institutions | Other legal<br>Persons | Domestic<br>Natural<br>Persons | Foreign<br>Institutions<br>and Natural<br>Persons | Total         |
|-----------------------------|------------------------|---------------------------|------------------------|--------------------------------|---|---------------|
| Number of Shareholders      | 12                     | 70                        | 459                    | 311,482                        | 663   | 312,686       |
| Shareholding                | 102,279,361            | 90,770,723                | 148,029,242            | 1,226,289,697                  | 288,817,379                                       | 1,856,186,402 |
| Shareholding percentage (%) | 5.51%                  | 4.89%                     | 7.97%                  | 66.07%                         | 15.56%  | 100.00%       |

# (III) Distribution profile of Share Ownership

March 30, 2021

| Class of Shareholding<br>(Unit: Share) | Number of Shareholders | Shareholding  | Shareholding percentage (%) |
|--|------------------------|---------------|-----------------------------|
| 1 ~ 999                                | 148,069                | 33,580,254    | 1.81%                       |
| 1,000 ~ 5,000                          | 126,214                | 262,270,942   | 14.13%                      |
| 5,001 ~ 10,000                         | 20,438                 | 153,819,603   | 8.29%                       |
| 10,001 ~ 15,000                        | 6,096                  | 74,309,415    | 4.00%                       |
| 15,001 ~ 20,000                        | 3,614                  | 66,000,562    | 3.56%                       |
| 20,001 ~ 30,000                        | 3,138                  | 78,822,354    | 4.25%                       |
| 30,001 ~ 50,000                        | 2,254                  | 89,159,551    | 4.80%                       |
| 50,001 ~ 100,000                       | 1,532                  | 108,646,974   | 5.85%                       |
| 100,001 ~ 200,000                      | 689                    | 96,047,808    | 5.17%                       |
| 200,001 ~ 400,000                      | 324                    | 91,716,648    | 4.94%                       |
| 400,001 ~ 600,000                      | 91                     | 44,316,199    | 2.39%                       |
| 600,001 ~ 800,000                      | 51                     | 35,128,131    | 1.89%                       |
| 800,001 ~ 1,000,000                    | 35                     | 31,350,212    | 1.69%                       |
| 1,000,001 or over                      | 141                    | 691,017,749   | 37.23%                      |
| Total                                  | 312,686                | 1,856,186,402 | 100.00%                     |

# (IV) Major Shareholders

March 30, 2021

| Name of Shareholders                                      | Shareholding | Shareholding percentage (%) |
|---|--------------|-----------------------------|
| New Labor Pension Fund                                    | 49,435,906   | 2.66%                       |
| Cathay Life Insurance                                     | 44,084,000   | 2.37%                       |
| Public Service Pension Fund Management Board              | 29,156,000   | 1.57%                       |
| Vanguard Emerging Markets Stock Index Fund a Series of    | 24,897,737   | 1.34%                       |
| Vanguard International Equity Index Funds                 |              |                             |
| JPMorgan Chase Bank N.A. Taipei Branch in custody for     | 22,849,546   | 1.23%                       |
| Vanguard Total International Stock Index Fund a series of |              |                             |
| Vanguard Star Funds                                       |              |                             |
| Shun Yin Investment Ltd.                                  | 22,587,265   | 1.22%                       |
| Syue-Rong Shen  | 21,700,000   | 1.17%                       |
| Allianz Glbl Inv Taiwan Tech                              | 21,000,000   | 1.13%                       |
| Old Labor Pension Fund                                    | 20,399,000   | 1.10%                       |
| Miin Chyou Wu   | 13,060,809   | 0.70%                       |

#### (V) Market Price, Net Worth, Earnings, and Dividends Per Share

Unit: NT\$

| Item                                |                                | Year                                | 2019       | 2020      | up to March<br>30,2021 |
|-------------------------------------|--------------------------------|-------------------------------------|------------|-----------|------------------------|
| Market Price                        | Highest Ma                     | arket Price                         | 39.1       | 46.9      | 50                     |
| per Share                           | Lowest Ma                      | rket Price                          | 16.85      | 22.05     | 37.25                  |
| (Note 1)                            | Average M                      | arket Price                         | 28.03      | 34.59     | 43.10                  |
| Net Worth per                       | Before Dist                    | tribution                           | 17.68      | 19.52     |                        |
| Share                               | After Distri                   | bution                              | 16.49      | (Note 5)  |                        |
| Earnings per                        | Weighted A shares)             | Average Shares (thousand            | 1,831,825  | 1,839,322 |                        |
| Share                               | Earnings pe                    | er Share                            | 1.64       | 2.90      |                        |
|                                     | Cash Divid                     | ends                                | 1.18940290 | 1.2       |                        |
| Dividends per                       | Stock                          | Dividends from Retained<br>Earnings | -          | -         |                        |
| Share                               | Dividends from Capital Surplus |                                     | -          | -         |                        |
| Accumulated Undistributed Dividends |                                | -                                   | -          |           |                        |
| Return on                           | Price / Earr                   | nings Ratio (Note 2)                | 16.12      | 11.54     |                        |
|                                     | Price / Divi                   | dend Ratio (Note 3)                 | 22.22      | 27.88     |                        |
| Investment                          | Cash Divid                     | end Yield Rate (Note 4)             | 4.50%      | 3.59%     |                        |

Note 1: Source of data: Taiwan Stock Exchange.

Note 2: Price / Earnings Ratio = Average Market Price / Earnings per Share

Note 3: Price / Dividend Ratio = Average Market Price / Cash Dividends per Share

Note 4: Cash Dividend Yield Rate = Cash Dividends per Share / Average Market Price

Note 5: The distribution of earnings for 2020 will be resolved at the 2021 Shareholders' Meeting.

#### (VI) Dividend Policy and Implementation

1. Dividend policy in the articles of incorporation

If there is a surplus in the Company's annual final accounts, it will first be used to pay taxes and make up for accumulated losses before the next 10% is taken for legal capital reserve (except when the legal capital reserve has reached the amount of the total capital). A special capital reserve is listed or reversed in accordance with relevant regulations. The remaining balance and the undistributed surplus of the previous year are the shareholder dividends.

The Company belongs to a capital-intensive industry. In line with the long-term financial planning, all or part of the shareholder dividends in the preceding paragraph may be reserved as undistributed earnings depending on the resolution by the shareholders' meeting. The dividends will then be distributed in the following year, together or separately.

The Company prioritizes cash dividends for surplus distribution. However, the Company shall still be able to distribute the surplus as shares depending on the financial, business, or operational status. The ratio follows the principle of not exceeding 50% of the total distributable surplus for the year.

- 2. Distribution of dividend proposed at the shareholders' meeting: NT\$2,227,423,682 (NT\$1.2 per share).
- 3. Expected material changes to the dividend policy: None.
- (VII) Effect to Business Performance and EPS of the Proposed Stock Dividends Distribution: not applicable.

#### (VIII) Compensation for Employees, Directors, and Supervisors

1. Percentage or scope of compensation for employees, directors and supervisors provided in the Company's Articles of Incorporation

According to the Articles of Incorporation, if there is profit for the year, 15% and 2% (or below) of the remaining balance should be allocated as employee and director compensation after accumulated losses have been deducted from the profit. Employee compensation should also be distributed to employees of subordinate companies that meet certain conditions.

- 2. The basis for estimating the amount of employee, director, and supervisor compensation, for calculating the number of shares to be distributed as employee compensation, and the accounting treatment of the discrepancy, if any, between the actual distributed amount and the estimated figure, for the current period
  - The Company's employee and director compensation in 2020, as stipulated by the Articles of Incorporation, were NT\$1,050,180,445 and NT\$140,024,059 respectively. The basis of the above estimate is the balance after deducting accumulated losses from the profit of the previous year. If the actual distribution amount differs from the estimated figure, accounting treatment will be given to the changes. The amount will be adjusted in the following year.
- 3. Distribution of compensation approved in the board of directors meeting On February 26 2021, the Board of Directors approved NT\$1,050,180,445 for employee compensation and NT\$140,024,059 for Director compensation.

- 4. Information of distribution of compensation of employees, directors, and supervisors for the previous year, and, if there are any discrepancies between the actual distribution and the recognized employee, director, or supervisor compensation, and the discrepancy, cause, and its treatment: None.
- (IX) Redemption of Common Stock: None.
- II. Corporate Bonds: None.
- III. Preferred Shares: None.
- IV. Global Depository Receipts: None.
- V. Employee Stock Options: None.

# VI. New Shares of Employee Restricted Stock Awards

## (I) New Shares of Employee Restricted Stock Awards

March 30, 2021

|   | March 30, 2021   |
|---|--|
| Types of new shares of employee Restricted Stock Awards   | 1st issuance of 2019 New shares of employee Restricted Stock<br>Awards Plan  |
| Effective date  | October 8, 2019  |
| Distribution date   | October 21, 2019   |
| Issue date  | June 16,2020   |
| New Shares of employee Restricted Stock<br>Awards issued  | 16,400,220 shares  |
| Issued price  | NT\$0  |
| Ratio of New shares of employee Restricted Stock Awards to total issued   | 0.89%  |
| The vesting conditions of new shares of employee Restricted Stock Awards  | <ul> <li>(1)Remain employed by the Company within one year after the grant date; and has a current year's performance rating of A0 or A1: 40% of restricted shares will be vested.</li> <li>(2)Remain employed by the Company within two years after the grant date; and has a current year's performance rating of A0 or A1: 30% of restricted shares will be vested.</li> <li>(3)Remain employed by the Company within three years after the grant date; and has a current year's performance rating of A0 or A1: 30% of restricted shares will be vested.</li> </ul>  |
| Restricted rights of new shares of employee<br>Restricted Stock Awards  | <ol> <li>(1) Except for being inherited, the new shares of employee Restricted Stock Awards not be sold, transferred, pledged, or gifted to others or disposed of using any other methods.</li> <li>(2) The new shares of employee Restricted Stock Awards shall be kept in a stock trust.</li> <li>(3) When a new share is returned in cash due to the Company's capital reduction, the refund of the vested capital loss shall be under custodian trust. In accordance with the issuance method, such capital and shares shall be granted if the vesting conditions for new shares of employee restricted stock awards are met. The vested shares are granted to employees without interests; if the vested conditions are not met, such cash will be recovered by the Company.</li> </ol> |
| Custody status of new shares of employee<br>Restricted Stock Awards   | Exercise of shareholder rights while the new shares of employee Restricted Stock Awards restricted are held during trust period shall be in accordance with the custodial agreement.   |
| Measures to handling employees that do not meet the vesting conditions for receiving or subscribing to new shares | The Company will redeem and cancel the granted but not yet vested shares   |
| Number of new shares of employee<br>Restricted Stock Awards taken back or<br>bought back                          | 174,700 shares   |
| Number of released new shares of employee Restricted Stock Awards   | 6,453,888 shares   |
| Number of unreleased new shares of employee Restricted Stock Awards   | 9,771,632 shares   |
| Ratio of unreleased new shares of employee<br>Restricted Stock Awards to total issued (%)                         | 0.53%  |
| Impact on shareholder's equity  | Dilution of the Company's EPS during the vesting period is limited and should not have a significant impact on shareholders' equity.   |

## (II) New Shares of Employee Restricted Stock Awards received by Managers and the Top Ten Employees

March 30, 2021

| _         |   | I                             | _                                     | 1   |                  |                        |                               |   |                  |                           |                               | rcn 30, 2021   |
|-----------|---|-------------------------------|---------------------------------------|---|------------------|------------------------|-------------------------------|---|------------------|---------------------------|-------------------------------|--|
|           |   |                               |                                       |   |                  | Rei                    | leased                        | 1   |                  | Un                        | released                      |  |
|           | Title   | Name                          | No. of<br>New<br>Restricted<br>Shares | New Restricted<br>Shares as a<br>Percentage of<br>Shares Issued | No. of<br>Shares | Issued Price<br>(NT\$) | Amount<br>(NT\$<br>thousands) | Released<br>Restricted<br>Shares as a<br>Percentage of<br>Shares Issued | No. of<br>Shares | Strike<br>Price<br>(NT\$) | Amount<br>(NT\$<br>thousands) | Unreleased<br>Restricted<br>Shares as a<br>Percentage<br>of Shares<br>Issued |
|           | CEO   | Miin Chyou Wu                 |                                       |   |                  |                        |                               |   |                  |                           |                               |  |
|           | President   | Chih-Yuan Lu                  |                                       |   |                  |                        |                               |   |                  |                           |                               |  |
|           | Senior Vice President<br>& Chief Marketing<br>Officer |                               |                                       |   |                  |                        |                               |   |                  |                           |                               |  |
|           | Vice President  | Ful-Long Ni                   |                                       |   |                  |                        |                               |   |                  |                           |                               |  |
|           | Vice President  | Pei-Fu Yeh                    |                                       |   |                  |                        |                               |   |                  |                           |                               |  |
| 7         | Vice President  | Yen-Hie Chao                  |                                       |   |                  |                        |                               | ļ   |                  |                           |                               |  |
| Managers  | Vice President  | Chun-Hsiung Hung              |                                       |   |                  |                        |                               |   |                  |                           |                               |  |
| ıag       | Vice President  | Jui-Kun Chen                  | 3,437,000                             | 0.185%  | 1,374,800        | 0                      | 0                             | 0.074%  | 2,062,000        | 0                         | 0                             | 0.111%   |
| ers       | Vice President  | Jon-Ten Chung                 |                                       |   |                  |                        |                               |   |                  | 1                         |                               |  |
| 0,        | Associate V.P.  | Kuang-Chao Chen               |                                       |   |                  |                        |                               |   |                  |                           |                               |  |
|           | Executive Director                                    | Wen-Pin Lu                    |                                       |   |                  |                        |                               |   |                  |                           |                               |  |
|           | Executive Director                                    | Hsin-Cheng Liu (Note 1)       |                                       |   |                  |                        |                               |   |                  |                           |                               |  |
|           | Executive Director                                    | Kai-Wen Tu (Note 1)           |                                       |   |                  |                        |                               |   |                  |                           |                               |  |
|           | Executive Director                                    | Ting-Chang Lin (Note 1)       |                                       |   |                  |                        |                               |   |                  |                           |                               |  |
|           | Executive Director                                    | Kun-Lung Chang (Note 1)       | 1                                     |   |                  |                        |                               |   |                  |                           |                               |  |
|           | Project Executive<br>Director                         | Hui-Chi Li                    |                                       |   |                  |                        |                               |   |                  |                           |                               |  |
|           | Chief Scientist                                       | Ke-Zhong Wang                 |                                       |   |                  |                        |                               |   |                  |                           |                               |  |
|           | Senior Director                                       | Han-Song Chen                 |                                       |   |                  |                        |                               |   |                  |                           |                               |  |
|           | Senior Director                                       | Ta-Hung Yang                  |                                       |   |                  |                        |                               |   |                  |                           |                               |  |
|           | Senior Director                                       | Shuo-Nan Hung                 |                                       |   |                  |                        |                               |   |                  |                           |                               |  |
| H         | Senior Director                                       | Tao-Cheng Lu                  |                                       |   |                  |                        |                               |   |                  |                           |                               |  |
| Щ         | Senior Director                                       | Yen-Hao Shih                  |                                       |   |                  |                        |                               |   |                  |                           |                               |  |
| plc       | Division Director                                     | Keng-Hui Chen                 | 1 122 000                             | 0.06107   | 452 900          | 0                      | 0                             | 0.02407   | 670.200          | 0                         | 0                             | 0.0270   |
| Employees | Project Director                                      | Ming-Xiang Chen               | 1,132,000                             | 0.061%  | 452,800          | 0                      | 0                             | 0.024%  | 679,200          | 0                         | 0                             | 0.037%   |
| es        | Project Director                                      | Suzuki Junhiro                | 1                                     |   |                  |                        |                               |   |                  |                           |                               | <b> </b>   |
|           | Project Director                                      | Ling-Wu Yang                  | 1                                     |   |                  |                        |                               |   |                  |                           |                               | <b> </b>   |
|           | Project Director                                      | Nan-Tzu Lien                  | 1                                     |   |                  |                        |                               |   |                  |                           |                               | <b> </b>   |
|           | Project Director                                      | Tien-Chu Yang                 | ]                                     |   |                  |                        |                               |   |                  |                           |                               |  |
|           | Project Deputy  | Hung-Chih Li                  | 1                                     |   |                  |                        |                               |   |                  |                           |                               | <b> </b>   |
|           | Director  |                               |                                       |   |                  |                        |                               |   |                  |                           |                               | <b> </b>   |
| N.T       |   | ive Director on April 28, 202 |                                       | •   |                  | •                      | •                             | •   |                  |                           |                               |  |

Note: Promoted to Executive Director on April 28, 2020

### VII. Mergers, Acquisitions or Issuance of New Shares for Acquisition of Shares of other Companies: None.

## VIII. Financing Plans and Implementation

As of one quarter before the printing date of this annual report, the Company has not experienced any previous issuance or private placement of marketable securities that have not been completed, or that have been completed but any benefits are yet to be recorded within the past three fiscal years.

# **Chapter V. Operation Summary**

#### I. Business Activities

#### (I) Scope of Business:

#### 1. Main Business:

The Company's main business concentrates on the design, manufacture, sales, and foundry services of integrated circuits and memory chips, as well as the commissioned design, development, and consultancy of relevant products. The Company concurrently engages in the import and export of relevant affairs. For the main businesses of the consolidated company, please refer to the main section regarding the Consolidated Financial Report on page 153 of this annual report.

#### 2. Business Proportion

Unit: NT\$ thousands

| Products | 20          | 19      | 20          | 20      |
|----------|-------------|---------|-------------|---------|
| Flouucts | Net Revenue | %       | Net Revenue | %       |
| Flash    | 19,481,027  | 55.67%  | 20,953,865  | 52.65%  |
| ROM      | 13,290,888  | 37.98%  | 16,022,159  | 40.26%  |
| Foundry  | 2,196,564   | 6.28%   | 2,794,731   | 7.02%   |
| Others   | 26,932      | 0.07%   | 30,192      | 0.07%   |
| Total    | 34,995,411  | 100.00% | 39,800,947  | 100.00% |

#### 3. Current Products of the Company

| Product Category       | Main Products  |
|------------------------|--|
| Non Volotila Mamany IC | Flash Memory (NOR Flash, NAND Flash)                 |
| Non-Volatile Memory IC | Read-Only Memory (ROM)                               |
| Wafer Foundry Services | Sub-micron logic process / high voltage CMOS and BCD |
|                        | process  |
|                        | Embedded ROM/MTP/OTP process                         |

CurrenCurrently, most of Macronix's flash memory products are NOR Flash. With excellent technology and quality, the product range covers various storage capacities, including 3V or 1.8V operating voltage, Serial or Parallel interfaces, and mainstream or niche specifications. Macronix has all products ready, and they are widely adopted by customers around the world.

In addition to NOR Flash, the independently-developed NAND Flash product line has stable quality and mass production, making Macronix one of the few suppliers of both NOR Flash and NAND Flash in the world.

Macronix has also passed the IATF 16949 certification of the quality management system in the fast-growing automotive electronics industry. The Company has equally managed to win the reliability standard AEC-Q100 certification for the two main product categories, namely NOR Flash and NAND Flash. Passing the two most important standards in the electronic IC supply chain makes Macronix an important partner of the first-class automotive electronics manufacturers.

Macronix's read-only memory products adopt world-class technologies with a complete lineup of storage capacity and a high level of security. With rich manufacturing experience and a comprehensive management system, Macronix has reached the highest level in the world in terms of delivery speed and shipment volume.

#### 4. Plans for New Product Development

#### (1) Non-Volatile Memory Product Line

The Company makes good use of the advantages of the new equipment in the 12-inch wafer lab to create a higher-level R&D environment, and continues to develop the following three core technologies of the new generation. The Company will create the innovative memory product series and combinations based on this foundation.

¾ 3D NAND Flash: The first generation project

※ 2D NAND Flash: 19 nanometer plan

※ NOR Flash: 48 nanometer plan

#### (2) Wafer Foundry Service

- Integrating Macronix's own embedded non-volatile memory logic platform technology into MCU and IoT markets
- \* Embedded ROM and OTP are applied to voice ICs.
- \* BCD (Bipolar-CMOS-DMOS) technology and integrating Macronix's own embedded non-volatile memory for analog and smart power management ICs.

#### (II) State of the Industry

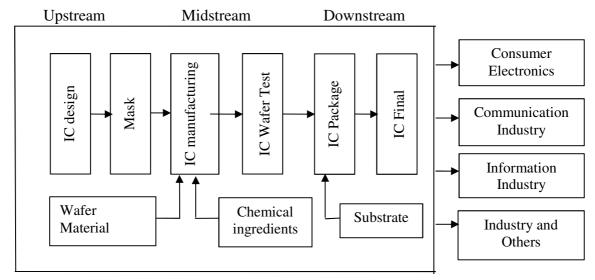
#### 1. Industry Development and Competition

Memory IC can be divided into two types according to their functions. Volatile memory refers to the memory that loses data when the power has been switched off, such as DRAM and SRAM. On the other hand, non-volatile memory retains the memory even when the power is switched off. The Company specializes in non-volatile memory, especially Flash Memory and ROM (read-only memory).

Flash Memory can be read and written repeatedly, and is widely used in consumer electronics, communications, information, mobile phones, automotive, and industrial fields. Macronix is the world's leading supplier of NOR Flash and SLC NAND Flash. It has the advantages of sound finance, stable supply, a 12-inch wafer lab, and production capacity. It will grow with the development of emerging applications in the future.

The special feature of ROM is that the data cannot be modified after storage. The main advantage is large storage capacity with low cost. Its application focuses on electronic gaming cards, electronic toys, and game consoles. The industry has become application-oriented. Macronix has long been ranked as the largest ROM supplier in the world, with more than half of the market share.

#### 2. Correlation with Upstream, Midstream, and Downstream Sections of the Industry



Source: ITRI Industrial Economics and Knowledge Center

The Company provides customers with a complete range of flexible solutions from R&D, manufacturing to backend package testing and is one of the few professional suppliers in the world that specialize in non-volatile memory.

#### (III) Overview of Technology and Research & Development

#### 1. R&D Expenses

|  |            | Unit: N1\$ thousands |
|--|------------|----------------------|
| Year Item                              | 2019       | 2020                 |
| R&D expenses                           | 3,555,919  | 4,115,844            |
| Operating Revenue                      | 34,995,411 | 39,800,947           |
| % of R&D expenses to Operating Revenue | 10%        | 10%                  |

I In: 4. NITO 4h assaula

#### 2. Successfully Developed Technologies or Products

In 2020, Macronix successfully implemented product and technology innovations to extend its superior product competitiveness.

- (1) Technology Innovation
  - \* The innovation and demonstration of the 3D NAND flash IC and control technology.
- (2) Product Innovation
  - \* Suitable for automotive electronic applications, the innovation and mass production of the new-generation, ultra-fast NOR Flash.

#### (3) Intellectual Rights Achievements

Macronix is persistent in its pursuit of innovation and invention. It is proactive in its application for patents and in the deployment of its international patent strategy network. The Company regularly reports on issues related to intellectual property in each quarterly meeting of the board of directors. Intellectual Property Strategy: In today's international industrial environment, intellectual property rights are gradually becoming the weapons used in the competition for strategic technologies. For Macronix, a company that strives to become a mainstream leader and a global provider of comprehensive solutions, the key strategy to sustainable operations is in the planning, deployment, production, and accumulation of equal amounts of quality and quantity in its patent rights strategy network, which entails the creation of high-quality innovative technology and intellectual property that can protect high-value-added products.

Intellectual Property Management: To encourage employees to pro-actively submit their inventions, Macronix has established the Patent Management and Incentive Guidelines, and has also introduced the Intellectual Property Rights and Patent Service Network, which incorporates patent engineers, developers, and the patent office and offers real-time control of each step in the intellectual property process.

Intellectual Property Risk and Countermeasures: The Company values R&D and innovation, and actively applies for patents as a form of intellectual property rights. As of 2020, the Company has obtained 3,111 patents in the U.S., 2,922 patents in Taiwan, 1,990 patents in China, and 297 patents in other countries. More than 1,200 patents are pending in the patent offices of different countries. The Company will continue to seek the protection of patent and intellectual property rights for the innovative technologies it has developed.

The Company will continue to seek the protection of patent and intellectual property rights for the innovative technologies it has developed.

#### (IV) Short- and Long-Term Business Development Plans

#### 1. Short-term

- \* Develop XtraROM® and NAND Flash product solutions for video games and entertainment to enhance the business growth of niche-based applications.
- \* Provide customized services and promote the compact nature of NOR Flash in order to increase adoption in consumer electronics, information applications, and IoT.
- Make good use of the high quality of the Company's products and the excellent production management to develop high value-added business in automotive electronics and medical electronics.
- Macronix's mature proprietary embedded non-volatile memory logical platform and BCD (Bipolar-CMOS-DMOS) technology are integrated to provide foundry services in MCU, IoT, and analog and smart power management IC related markets.

#### 2. Long-term

\* Develop high-capacity 2D and 3D NAND Flash technologies and products to provide solutions for niche applications.

#### II. Market and Sales Overview

#### (I) Market Analysis

#### 1. Net Revenue by Geography

Unit: NT\$ thousands

|          | Year     | 20          | 19     | 2020        |        |
|----------|----------|-------------|--------|-------------|--------|
| Geograph | ny       | Net revenue | %      | Net revenue | %      |
| Г        | Oomestic | 6,320,298   | 18.06  | 6,867,071   | 17.25  |
|          | Japan    | 15,197,890  | 43.43  | 17,745,042  | 44.59  |
|          | USA      | 1,443,461   | 4.12   | 1,441,766   | 3.62   |
| Export   | Europe   | 2,493,995   | 7.13   | 2,527,467   | 6.35   |
|          | Asia     | 9,539,767   | 27.26  | 11,219,601  | 28.19  |
|          | Subtotal | 28,675,113  | 81.94  | 32,933,876  | 82.75  |
|          | Total    | 34,995,411  | 100.00 | 39,800,947  | 100.00 |

#### 2. Market Share

#### (1) ROM

The Company's ROM products account for more than 50% of the global market and has been firmly established as the market leader.

#### (2) NOR Flash

We remain a global leader in non-volatile memory devices with the market share of our NOR flash product line exceeding 24% in 2020, slightly higher than the previous year.

#### 3. Competitive Niches

The Company has been developing ROM and Flash technology and products for more than 30 years. The continuous innovation enhances competitiveness while maintaining stable product quality and supply. Recently, IoT and automotive electronics applications are in the ascendant. One of the trends is the need to integrate NOR Flash into compact wafer products. Macronix's emphasis on quality and supply is its competitive advantage.

4. Favorable and Unfavorable Factors Affecting the Company's Development Prospects and Corresponding Countermeasures

The Company's operations and finance are currently sound and stable. The independent technologies and production of Flash Memory and ROM, and stable supply has won customers' trust as Macronix's competitive advantage.

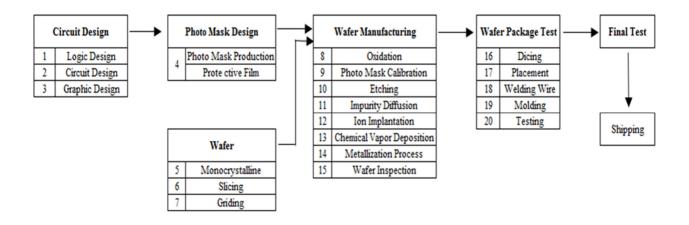
In order to achieve sustainable development, the Company will continue to develop advanced non-volatile memory technology and update the 12-inch fab equipment to create an advanced R&D environment and production base. Our goal is to provide customers with superior products and services in order to gain a stable foothold in the industry.

#### (II) Important Applications and Production Processes of the Primary Products

#### 1. Major Uses of the Primary Products

| Product Category       | Primary Products   | Use and Function   |  |  |
|------------------------|--|--|--|--|
| Non-Volatile Memory IC | Flash Memory   | Used in mobile phones, set-top boxes, IoT, personal computers, digital cameras, automotive electronics, CD players, printers, hard drives, network devices, tablets, wireless communications (Bluetooth, WLAN), and large entertainment equipment. |  |  |
|                        | ROM  | Mainly used in TV game cards, electronic entertainment equipment, electronic toys and so on.   |  |  |
| Wafan Fayndry Samiaga  | Sub-micron logic process /<br>high voltage CMOS and<br>BCD process | Providing high-voltage CMOS manufacturing technology in order to serve analog IC design customers.   |  |  |
| Wafer Foundry Services | Embedded ROM/MTP/OTP<br>Process                                    | Providing embedded ROM/MTP/OTP integration technology to serve microcontroller IC design customers.  |  |  |

#### 2. Production Process



#### (III) Supply of Primary Raw Materials

The ICs manufactured by our fabs are mainly made of silicon wafers, photoresist chemicals, and special gases. The suppliers are well-known large factories at home and abroad, with stable supply and excellent quality.

# (IV) Suppliers/Customers Accounted for at Least 10% of Purchase/Sales and Respective Amount and Percentage

1. Information on Major Suppliers in the Last Two Fiscal Years

Unit: NT\$ thousands

|      |                 | 2         | 2019  |                                    | 2020            |            |   |                              |
|------|-----------------|-----------|---|------------------------------------|-----------------|------------|---|------------------------------|
| Item | Name            | Amount    | Percentage of<br>Annual Net<br>Purchase (%) | Relationship<br>with the<br>Issuer | Name            | Amount     | Percentage of<br>Annual Net<br>Purchase (%) | Relationship with the Issuer |
| 1    | Supplier A      | 2,800,371 | 34.10                                       | Related party                      | Supplier A      | 6,209,245  | 52.25                                       | Related party                |
|      | Others          | 5,411,428 | 65.90                                       |                                    | Others          | 5,674,686  | 47.75                                       |                              |
|      | Net<br>Purchase | 8,211,799 | 100.00                                      |                                    | Net<br>Purchase | 11,883,931 | 100.00                                      |                              |

- Note 1: In line with regulations regarding IFRSs since 2013, the figures in this chart are based on the consolidated financial statements.
- Note 2: Names of suppliers taking up more than 10% of the total purchase for the last two years and the amount as well as percentage are listed. However, because the contract stipulates that the name of the supplier should not be disclosed, or the counterparty is an individual but not a related party, it can be represented by a code instead.
- Note 3: The increase/decrease is caused by changes in market trends and customer demands.

#### 2. Information on Major Customers in the Last Two Fiscal Years

Unit: NT\$ thousands

|      | Citt. 1(1) thousands |            |   |                                    |               |            |   |                                 |  |
|------|----------------------|------------|---|------------------------------------|---------------|------------|---|---------------------------------|--|
|      |                      | 2019 2020  |   |                                    |               |            |   |                                 |  |
| Item | Name                 | Amount     | Percentage<br>of Annual<br>Net Sales<br>(%) | Relationship<br>with the<br>Issuer | Name          | Amount     | Percentage<br>of Annual<br>Net Sales<br>(%) | Relationship<br>with the Issuer |  |
| 1    | Customer A           | 13,236,202 | 37.82                                       | Related party                      | Customer<br>A | 16,101,433 | 40.45                                       | Related party                   |  |
|      | Others               | 21,759,209 | 62.18                                       |                                    | Others        | 23,699,514 | 59.55                                       |                                 |  |
|      | Net Sales            | 34,995,411 | 100.00                                      |                                    | Net Sales     | 39,800,947 | 100.00                                      |                                 |  |

Note 1: Names of customers taking up more than 10% of the total sales for the last two years and the amount as well as percentage are listed. However, because the contract stipulates that the name of the customer should not be disclosed, or the counterparty is an individual but not a related party, it can be represented by a code instead.

Note 2: The increase/decrease is caused by fluctuating customer needs.

#### (V) Table of Production Volume and Value in the Most Recent Two Years

Capacity/Output Unit: Kea or PC Revenue Unit: NT\$ thousands

| Produce Amount   |           | 2019      |            | 2020      |           |            |
|------------------|-----------|-----------|------------|-----------|-----------|------------|
| Main<br>Products | Capacity  | Output    | Amount     | Capacity  | Output    | Amount     |
| Flash            |           | 2,105,506 | 11,040,634 |           | 2,286,843 | 12,373,011 |
| ROM              |           | 100,688   | 8,954,454  |           | 139,839   | 10,800,102 |
| Subtotal (Kea)   |           | 2,206,194 | 19,995,088 |           | 2,426,682 | 23,173,113 |
| Foundry (PC)     |           | 255,366   | 1,607,755  |           | 323,317   | 2,214,175  |
| Capacity (PC)    | 1,260,775 |           |            | 1,167,500 |           |            |

Note 1: Capacity refers to the quantity that can be produced under normal operations using existing production equipment after the company has taken factors such as necessary downtime, holidays, etc. into consideration.

#### (VI) Sales & Shipments in the Most Recent Two Years

Unit: Shipments (Kea or PC) Revenue Unit: NT\$ thousands

| To voide Citi. 1114 thousands |           |             |           |             |           |             |           |             |
|-------------------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| \Year                         | 2019      |             |           |             | 2020      |             |           |             |
| Sales &                       | Domestic  |             | Export    |             | Domestic  |             | Export    |             |
| Shipments Products            | Shipments | Net revenue |
| Flash                         | 708,077   | 4,574,945   | 1,192,730 | 14,906,082  | 679,862   | 4,721,667   | 1,411,679 | 16,232,198  |
| ROM                           | 21        | 182         | 102,938   | 13,290,706  | -         | -           | 137,720   | 16,022,159  |
| Foundry (Note)                | 196,513   | 1,744,740   | 56,421    | 451,824     | 242,692   | 2,143,117   | 80,836    | 651,614     |
| Others                        | -         | 431         | -         | 26,501      | -         | 2,287       | -         | 27,905      |
| Total                         | 708,098   | 6,320,298   | 1,295,668 | 28,675,113  | 679,862   | 6,867,071   | 1,549,399 | 32,933,876  |

Note1: Unit of Foundry shipments is 8-inch equivalent wafers.

Note2: The total amount of sales does not include Foundry (PC).

Note 2: If the product is substitutable, capacity can be jointly calculated and explained in the note.

Note 3: Capacity and Foundry output are estimated in 8-inch equivalent wafers.

Note 4: Amount refers to the manufacturing cost of the finish goods that are available for sale in the year.

# **III.** Employees Information

# (I) Company Employees Information

|                     | Year                        | 2019                     | 2020                     | As of March 30, 2021      |
|---------------------|-----------------------------|--------------------------|--------------------------|---------------------------|
|                     | Management Personnel        | 686                      | 787                      | 777                       |
| Number of employ    | R&D and Technical Personnel | 1,718                    | 1,662                    | 1,650                     |
| l vomoer er emprey  | Operators                   | 1,430                    | 1,443                    | 1,445                     |
|                     | Total                       | 3,834                    | 3,892                    | 3,872                     |
|                     | Average age                 | 38.3 years old           | 38.4 years old           | 39.3 years old            |
| Averag              | e Length of Service         | 11 years and<br>8 months | 11 years and<br>9 months | 11 years and<br>11 months |
|                     | Ph.D.                       | 1.9                      | 2                        | 1.9                       |
|                     | Master's Degree             | 30                       | 30.6                     | 30.5                      |
| Education Level (%) | Bachelor's                  | 49.7                     | 50.1                     | 50.4                      |
|                     | High School                 | 18.2                     | 17.1                     | 17                        |
|                     | Below High School           | 0.2                      | 0.2                      | 0.2                       |

# (II) Consolidated Employees information

|                       | Year                        | 2019                    | 2020                    | As of March 30,2021      |
|-----------------------|-----------------------------|-------------------------|-------------------------|--------------------------|
|                       | Management Personnel        | 117                     | 118                     | 118                      |
| Number of             | R&D and Technical Personnel | 158                     | 155                     | 155                      |
| employees             | Operators                   | 0                       | 0                       | 0                        |
|                       | Total                       | 275                     | 273                     | 273                      |
|                       | Average age                 | 39.2 years old          | 39.3 years old          | 40 years old             |
| Averag                | ge Length of Service        | 8 years and<br>4 months | 8 years and<br>7 months | 8 years and<br>10 months |
|                       | Ph.D.                       | 0.0                     | 0.0                     | 0.0                      |
|                       | Master's Degree             | 37.1                    | 38.5                    | 38.8                     |
| Educational Level (%) | Bachelor's                  | 61.1                    | 59.7                    | 59.4                     |
|                       | High School                 | 1.8                     | 1.8                     | 1.8                      |
|                       | Below High School           | 0.0                     | 0.0                     | 0.0                      |

#### IV. Environmental Protection Expenditures

(I) Any losses suffered by the company in the most recent fiscal year and up to the annual report publication date due to environmental pollution incidents (including any compensation paid and any violations of environmental protection laws or regulations found in environmental inspection, specifying the disposition dates, disposition reference numbers, the articles of law violated, and the content of the dispositions), and disclosing an estimate of possible expenses that could be incurred currently and in the future and measures being or to be taken. If a reasonable estimate cannot be made, an explanation of the facts of why it cannot be made shall be provided.

The Company has not been penalized for polluting the environment in the most recent fiscal year and up to the printing date of this annual report. The Company will continue to keep up with equipment maintenance and the implementation of an environmental management system in the future.

#### (II) Countermeasures and Expenditures

- 1. The Company's investment and improvement fees in environmental protection engineering, equipment operation maintenance fee, depreciation expenses for environmental protection equipment, clearance and disposal fees, and detection, project research, and training expenses amounted to NT\$152,191,000 in 2020.
- 2. Impact on competitive position and capital expenditures:
  - (1) The Company promotes energy-saving, water-saving, and waste reduction by investing in and maintaining various pollution prevention equipment. The Company continues to work toward the goal of establishing a green wafer plant that is high in efficiency and low in pollution.
  - (2) The Company has established the "ISO 14001 Environmental Management System", "ISO 14064-1 Guidelines for quantification and reporting of greenhouse gas emissions and removals at the organization level", "IECQ-QC080000 Hazardous Substance Process Management System", etc., and continues to invest manpower in the promotion and maintenance of strengthening its competitive edge on the international stage.
  - (3) The Company has received the Green Partner certificate from customers in meeting their requirements for "Green Products".
  - (4) The Company has received multiple awards from the competent authority in recent years. In 2020, the Company won awards including the "Outstanding Recognition of Environmental Preservation and Landscape", the "Outstanding Enterprise Award of Distinction in Group A for Waste Reduction and Circular Economy", etc.
  - (5) The Company purchases products with the "Green Mark" from the Environmental Protection Administration or ones with the Ministry of Economic Affairs' "Energy Saving" and "Water Saving" labels, such as energy-saving lamps, water dispensers, personal computers, cleaner supplies, and peripheral equipment, etc., to fulfill its corporate social responsibilities.
  - (6) We adopted a bicycle path in Hsinchu City and became responsible for its cleaning and maintenance. We also assisted the Environmental Protection Administration in organizing environmental protection public welfare events, such as eco-friendly walking events, and gained the recognition of the competent authority and citizens.
  - (7) Based on respect and care toward social responsibility, the Company will continue to engage and invest in environmental protection in order to achieve the goal of sustainable development.

# (III) The Company's Measures in Response to Restriction of Hazardous Substances (RoHS)

With the trend of green consumption awareness and the increasingly strict international environmental protection regulations, the Company strives to manage chemical substances in product components in addition to efforts of reducing environmental pollution caused by the production process.

#### 1. Green Products

- (1) The products comply with the requirements of the European Union's Restriction of Hazardous Substances (RoHS).
- (2) The products meet the requirements of the European Union's Substance of Very High Concern (SVHC) and ELV (End-of-Life Vehicle).
- (3) No "conflict minerals" are used in the products (conflict minerals refer to minerals such as gold, tin, tungsten, tantalum and those related to labor exploitation in the Democratic Republic of the Congo and its adjoining countries).
- (4) The products have obtained green product certificates from internationally renowned customers such as Sony.

#### 2. Management System

- (1) In September 2007, the Company passed the certification of the IECQ QC 080000 Hazardous Substance Process Management System. It obtained the certification once again in 2020, which ensured the effectiveness of green products management.
- (2) The Company Implements Risk Assessment of Suppliers (RAS) to ensure that the EU RoHS Directive and the requirements of SVHC are implemented both for the upstream and downstream of the supply chain, in compliance with international regulations and customer specifications.

#### V. Labor Relations

#### (I) Employee Benefits

- 1. Labor insurance and national health insurance: Employees' insurance and national health insurance coverage is handled according to laws and regulations. The employees enjoy the protection of both labor insurance and national health insurance from the first day of work.
- 2. Group insurance: Employees are covered by the Company's group insurance policies since the first day of work. The premiums are paid by the Company according to their positions. Group insurance is also open to the employees' family members provided that the employees pay the premiums, which provides extra protection and care for their families.
- 3. Cancer insurance: The employees receive cancer insurance coverage from the first day of work with the premiums borne by the Company. The employees can opt to pay for the same coverage for their spouses and children.
- 4. Travel insurance for business trips abroad: Employees' travel insurance is provided by the Company during business trips, covering incidents such as accidental death, injuries, and medical care
- 5. Restaurants, accommodation, transportation, free parking space, and healthcare services.
- 6. Bonuses and employee benefits
- 7. Employee recreation and fitness center: The center is equipped with a 50-meter heated swimming pool, a hydrotherapy SPA, a children's swimming pool, an aerobics classroom, a fitness room, a massage room, karaoke, courses for billiard, table tennis, badminton, and squash, a family reading room, a children's play room, a video game room, and a common room.
- 8. Employee Welfare Committee: In order to promote employee welfare, the Company has set up the Employee Welfare Committee in accordance with the provisions of the Employee Welfare Fund

Act. The Company sets aside employee welfare fund to organize various welfare measures, activities, and the operation and management of employee clubs.

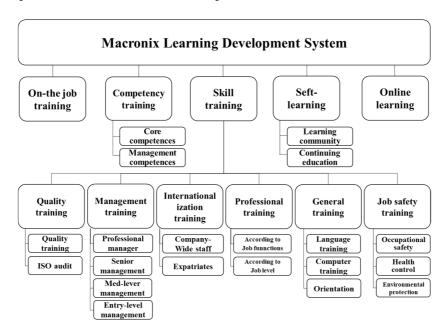
#### (II) Staff Training and Development

The Company held a total of 1,749 internal and external training courses in 2020. The average number of training hours was 47.36 hours. The total number of trainees was 44,902, and the total number of training hours was 189,047 hours. The total training cost was NT\$8,055,510.

Macronix's performance management system is closely integrated with individual development plans. Performance interviews are conducted twice a year to examine the setting of individual performance goals and the achievement of individual performance goals and organizational goals. Employees can communicate and discuss with supervisors face-to-face based on the individual job performance and career development needs. A personal development plan is customized to develop various professional knowledge and skills in a step-by-step manner.

#### Comprehensive Learning Development System

The learning development system of the Company is planned according to its strategies, job requirements, and individual development.



The Company's training is designed based on the principles of advancement, function, planning, and continuity. Through a clear and strategically oriented system structure, the Company provides clear and detailed learning maps for the employees to understand their learning path.

#### (1) The Company's learning roadmap system consists of four categories:

- 1. A newcomer roadmap is designed for new recruits to shorten the adjustment period and quickly integrate into corporate culture.
- 2. A competency roadmap is developed in accordance with the Company's values, in the hope that employees can demonstrate behavior in line with the Company's expectations.
- 3. The management roadmap is developed for different management levels in order to strengthen their management capacity step-by-step.
- 4. Professional roadmaps are developed according to professional competences required in different fields of work; internal and external lecturers are employed to carry out professional training courses to strengthen employees' professional capacity.

#### (2) Other training courses:

- 1. Providing language learning in line with individual needs to strengthen employees' language skills and competitiveness; organizing computer application software courses to improve work efficiency.
- 2. Offering opportunities for employees to participate in foreign academic seminars to understand the latest development trends of technology and industry abroad; providing opportunities of working overseas which can increase international vision and personal competitiveness

#### Diverse Learning Channels

The Company offers different learning channels to meet different employee learning needs.



#### 1. Internal training:

The Company hires internal and external lecturers to hold various training courses in the Company.

#### 2. External training:

The employees can participate in external training courses and seminars that are closely related to work.

#### 3. On-the-job training:

Through professional learning in the workplace, the employees can "learn by doing" and acquire the knowledge and skills necessary for work.

#### 4. Online learning:

The employees can use the Internet to learn without the limits of time and space and learn according to their individual learning speed.

#### 5. Self-learning:

The employees can engage in cross-disciplinary learning of knowledge, skills, etc. according to their personal career plan. They can also advance individual learning through reading or participating in on-the-job training courses.

#### \*Comprehensive Training Facilities

Macronix Academy's comprehensive facilities and professional equipment enable each employee to study in a good environment.

- 1. Audio-visual study room: With multimedia computers, books, CDs, video tapes, and audio tapes, the rich learning channel allows employees to learn without boundaries.
- 2.Training classroom: Several lecture halls and group discussion rooms provide appropriate learning environment according to the curriculum design.
- 3. Computer classroom: One person is equipped with one computer to maximize learning efficiency.
- 4.International lecture hall: The hall can accommodate 250 people, and it is the ideal venue for large-scale training, seminars, and lectures.
- 5.Library: There are a large number of books, periodicals, and audio-visual materials to meet diverse reading needs.

#### (III) Retirement system

The Company's retirement policy is set according to the relevant provisions of the Labor Standards Act, and the "Retirement Reserve Supervision Committee" has been set up to supervise and manage the retirement reserve. In addition, pension is withheld according to the relevant provisions of the Labor Pension Act.

#### (IV) Employee Working Environment and Personal Safety Protection Measures

In order to achieve sustainable management, the Company implements Environmental Safety and Health Policy and lays emphasis on corporate social responsibility. It has obtained outstanding achievements in protecting the environment as well as the safety and health of employees. It has won many awards from the government and recognition from customers. The specific management measures include:

#### 1. Management System

- (1) Passed verification from ISO 14001 Environmental Management System, ISO 45001 Occupational Safety and Health Management System, and TOSHMS Taiwan Occupational Safety and Health Management System.
- (2) Verified by the IECQ QC080000 Hazardous Substance Process Management System. The products meet the requirements of EU RoHS and have obtained the Green Product (GP) certificates from international customers.
- (3) Passed the verification "IOS 14064-1 Guidelines for quantification and reporting of greenhouse gas emissions and removals at the organization level".

#### 2. Environmental Protection and Safety Management

- (1) Implementing strict and comprehensive monitoring of the work environment and monitoring air quality on site 24 hours a day to ensure the health and safety of employees.
- (2) Complying with laws and regulations as well as customer requirements to regularly identify and review environmental safety management measures.
- (3) Setting up various environmental pollution prevention measures (water, air, waste, toxic waste, and noise) and strictly monitoring the quality of the environment.
- (4) Implementing "Green Procurement" to purchase equipment or product with the domestic and foreign Environmental Protection Label, such as "Environmental Protection Label" from the Environmental Protection Administration or the "Energy Conservation Label" and "Water Conservation Label" from the Ministry of Economic Affairs, which include energy-saving lamps, water dispensers, personal computers and their peripheral equipment, etc. to realize corporate social responsibility; recognized as an Excellent Green Procurement Unit in the private sector by the Hsinchu Municipal Government in 2020.
- (5) Fully providing employees with personal protective equipment (PPE) and comprehensive safety, health, and environmental protection training.
- (6) Establishing an Emergency Response Team (ERT) with dedicated staff on call 24 hours a day and establishing a Business Continuity Plan (BCP), implementing training, to ensure the safety of all employees and the Company's factory buildings.
- (7) Regularly inspecting the fire safety equipment and complying with the buildings' public safety; regularly holding evacuation drills to improve staff resilience.
- (8) Regularly improving and reviewing human factors in the work environment to provide employees with a comfortable work environment.

- (9) Assisting the Hsinchu Science Park Administration Bureau to organize the work safety and environmental protection promotion month.
- (10) Adopting the Hsinchu "Environmental Bikeway", implementing environmental protection public welfare events.

#### 3. Health Management

- (1) Regularly holding employee health promotion activities and providing quality health management services. Macronix won the "National Excellent Healthy Workplace Paradigm in Health Award" from the Ministry of Health and Welfare in 2019.
- (2) Regularly bringing doctors on site to provide employee health consultation and health promotion activities, as well as conducting health risk assessment and graded health management.
- (3) The responsible unit collects the latest epidemic prevention information to strengthen the epidemic prevention management, provides vaccination services and gives "anti-epidemic packages" for employees on business trips abroad to protect their health.
- (4) In response to the COVID-19 outbreak the "Epidemic Prevention Office" was established to carry out overall planning of the matters related to epidemic prevention, and to conduct rolling review and adjustment of emergency response plans based on the situation in Taiwan and overseas, thereby preventing the pandemic from affecting our operations, while protecting the health of our employees and visitors.
- (5) Improving the employee assistance program and providing the best psychological counseling services.
- (6) Implementing maternal health protection measures to take care of pregnant employees and implementing the principle of three noes (no night shifts, no carrying heavy loads, and no engaging in free radiation operations) to build a friendly workplace.
- (7) Regularly monitoring the work environment to ensure a good working environment and protect employee health.
- (8) Conducting spot checks of food ingredients such as meat, oil, and flour products in the Company's kitchen; entrusting government-accredited institution to inspect and ensure the safety of employees' food.
- (9) Setting up a "breastfeeding room" for employees, which has gained employee satisfaction with its lovely environment and comprehensive equipment and received the triennial "Excellence Award" from the Hsinchu City Public Health Bureau in 2020.

#### (V) Measures for Safeguarding Labor Agreements and Employees' Rights and Interests

- 1. The Company regularly organizes various meetings as channels of communication, including orientation, departmental meetings and labor-management meetings, etc. The goal is to facilitate communication and ensure all opinions are heard.
- 2. The Company has set up the "No Topic is Off Limits" suggestion box for the employees to communicate and express their opinions. Employees can make inquiries, suggestions, and complaints through the suggestion box.
- 3. The Company has set up a paper and digital bulletin board to facilitate timely delivery of information that is relevant to the employees' rights and interests.
- 4. "Regulations Governing Sexual Harassment" has been developed to prevent sexual harassment and maintain gender equality at work, detailing the prevention, complaint filing, and punishment of sexual harassment.

- 5. The Company has set up the "Our Family Employee Relationship Portal Website" as a channel of communication with features including an interface for communicating employee needs directly with the management team, information sharing, lifestyle tips sharing, passing on culture, and employee assistance. Positive behavior is encouraged to enhance motivation and maintain a harmonious labor-management relationship.
- (VI) List any losses suffered by the company in the most recent fiscal years and up to the annual report publication date due to labor disputes (including any violations of the Labor Standards Act found in labor inspection, specifying the disposition dates, disposition reference numbers, the articles of law violated, the substance of the legal violations, and the content of the dispositions), and disclosing an estimate of possible expenses that could be incurred currently and in the future and measures being or to be taken. If a reasonable estimate cannot be made, an explanation of the facts of why it cannot be made shall be provided.

Since its establishment in 1989, the Company has maintained harmonious labor-management relations. There have not been and will not be losses due to labor disputes. The Company has received recognition of the highest level from the competent authority. The awards regarding labor-management relations received in the past five years are as follows:

| Year | Awards  | Issued by   |
|------|---|---|
| 2016 | Awarded with Top Honor for an Accredited Healthy Workplace                              | Health Promotion Administration, Ministry of Health and Welfare |
| 2016 | Third Place in the Breastfeeding Room Competition, Workplace Category                   | Public Health Bureau, Hsinchu City                              |
| 2017 | Sports Enterprise Certification   | Sports Administration, Ministry of Education                    |
| 2017 | Awarded Excellence in Workplace Equality Promotion                                      | Hsinchu Science Park Bureau                                     |
| 2017 | Award of Excellence for Breastfeeding Room<br>Certification                             | Public Health Bureau, Hsinchu City                              |
| 2018 | Sports Enterprise Certification   | Sports Administration, Ministry of Education                    |
| 2018 | Gold Level  | Responsible Business Alliance                                   |
| 2018 | Health Promotion Seal   | Health Promotion Administration, Ministry of Health and Welfare |
| 2018 | Healthy Workplace Creative Gold Award   | Health Promotion Administration, Ministry of Health and Welfare |
| 2019 | CSR Annual Sustainable Elite  | SGS Taiwan Ltd. (SGS)   |
| 2019 | 【Paradigm in Health Award】 from the National Excellent Healthy Workplace                | Health Promotion Administration, Ministry of Health and Welfare |
| 2019 | 【 Award for Workplace Innovation 】 from the Creativity Gold Award for Healthy Workplace | Health Promotion Administration, Ministry of Health and Welfare |
| 2019 | Healthy Workplace Certification   | Health Promotion Administration, Ministry of Health and Welfare |
| 2020 | Sports Enterprise Certification   | Sports Administration, Ministry of Education                    |
| 2020 | [ Award of Excellence ] for Workplace Equality Promotion                                | Hsinchu Science Park Bureau                                     |
| 2020 | Platinum Level  | Responsible Business Alliance                                   |
| 2020 | CSR Annual Sustainable Elite  | SGS Taiwan Ltd. (SGS)   |
| 2020 | Award of Excellence for Breastfeeding Room<br>Certification                             | Public Health Bureau, Hsinchu City                              |

# VI. Important Contracts

| Number | Contract                  | Party   | Dates   | Main Content  | Restriction terms   |
|--------|---------------------------|---|---|---|---|
| 1      | Technology<br>Transfer    | Industrial<br>Technology<br>Research<br>Institute | From<br>February<br>1997  | Technology transfer of MEPG-2 Audio Decoder   | Intellectual property rights, use, confidentiality and other restrictions |
| 2      | License<br>Agreement      | Cybernetics,<br>USA                               | From April<br>2000  | Low Rate Coder<br>technology license  | Use, confidentiality and other restrictions                               |
| 3      | License<br>Agreement      | Saifun<br>Semiconductors,<br>Israel               | From May<br>2000 until<br>Saifun<br>NROM<br>patent<br>validity<br>period ends | "NROM" technology license   | Intellectual property rights, use, confidentiality and other restrictions |
| 4      | License<br>Agreement      | Zoran, USA  | From June 2000  | Technology license of TV decoder/TV signal decoder+3Dimentional color signal enhancement function   | Intellectual property rights, use, confidentiality and other restrictions |
| 5      | License<br>Agreement      | ARM, England                                      | From August 2002  | Obtained ARM technology license   | Intellectual property rights, use, confidentiality and other restrictions |
| 6      | License<br>Agreement      | Saifun<br>Semiconductors,<br>Israel               | From April<br>2004  | MLC Flash technology license  | Intellectual property rights, use, confidentiality and other restrictions |
| 7      | License<br>Agreement      | Mentor<br>Graphics,<br>Ireland                    | From July<br>2005   | Work system technology license  | Intellectual property rights, use, confidentiality and other restrictions |
| 8      | Strategic<br>Alliance     | Tower<br>Semiconductor,<br>Israel                 | From<br>December<br>2000  | Strategic alliance<br>investment in Tower<br>Semiconductor  | Confidentiality and other obligations                                     |
| 9      | License<br>Agreement      | Qimonda   | From March 2011   | Obtained a specific flash memory design related license   | Use, confidentiality and other restrictions                               |
| 10     | Joint<br>Developme<br>nt  | IBM, USA  | January 22,<br>2019-<br>January 21,<br>2022                                   | Joint research on phase-<br>change non-volatile<br>memory   | Intellectual property rights, use, confidentiality and other restrictions |
| 11     | License<br>Agreement      | Creative<br>Integrated<br>Systems, Inc.,<br>USA   | From April<br>2014  | U.S. Patent 5,241,497 and 5,812,461 and related licensing   | License, guarantee, exemption, confidentiality and other terms            |
| 12     | Settlement<br>Agreement   | Spansion, USA                                     | From January<br>2015  | Reached a settlement for<br>both parties' litigation and<br>disputes over global<br>patents, and was granted<br>cross-licensing of disputed<br>patents. | Special patent license, settlement fee, confidentiality and other terms   |
| 13     | License<br>Agreement      | RPX<br>Corporation,<br>USA                        | December 15,<br>2019-<br>December 14,<br>2022                                 | RPX and Round Rock technology license   | License, use, confidentiality and other terms                             |
| 14     | Distribution<br>Agreement | Avnet, Inc.                                       | From<br>September<br>2017   | Expanded product sales on the international market  | Confidentiality,<br>license, liability and<br>other terms                 |

| Number | Contract                               | Party  | Dates   | Main Content  | Restriction terms  |
|--------|--|--|---|---|--|
| 15     | Purchase agreement                     | SUMCO<br>CORPORATIO<br>N, Japan                                | October 1,<br>2019-<br>June 30, 2021          | Raw materials purchasing  | Confidentiality terms and other arrangements   |
| 16     | Syndicated loan                        | Seven financial institutions including Taiwan Cooperative Bank | November 24, 2017-<br>December 18, 2022       | NT\$7.7 billion syndicated loan   | Annual financial statements' liability ratio, current ratio, interest coverage multiples and others are subject to restrictions. |
| 17     | Settlement<br>and License<br>Agreement | Toshiba<br>Corporation/<br>Toshiba Memory<br>Corporation       | From October 9, 2018                          | Settlement of patent<br>litigation in the United<br>States, Japan and Taiwan<br>and cross-licensing patents | Special patent<br>license, settlement<br>fee, confidentiality<br>and other terms   |
| 18     | Syndicated loan                        | Nine financial institutions including Taiwan Cooperative Bank  | February 25, 2019-<br>February 24, 2024       | NT\$8 billion syndicated loan   | Annual financial statements' liability ratio, current ratio, interest coverage multiples and others are subject to restrictions. |
| 19     | Joint research                         | Tsing Hua<br>University  | March 1,<br>2018-<br>October 31,<br>2020      | Joint research on smart<br>non-volatile memory<br>circuit design  | Intellectual property rights, use, confidentiality and other restrictions  |
| 20     | Joint<br>research                      | Tsing Hua<br>University  | September 1,<br>2020-<br>December 31,<br>2021 | Research on Low Power<br>4KB LDDC Code design<br>and application to NAND<br>Controller                      | Intellectual property rights, confidentiality terms and other terms  |

# **Chapter VI. Financial Summary**

# I. Condensed Balance Sheet and Comprehensive Income Statement in the Last Five Fiscal Years

# (I) Condensed Balance Sheets

1. Condensed Consolidated Balance Sheets

Unit: NT\$ thousands

|                           | Year                                | Fina         | Financial Information for the Last Five Fiscal Years |            |            |            |  |  |
|---------------------------|-------------------------------------|--------------|--|------------|------------|------------|--|--|
| Item                      |                                     | 2016         | 2017   | 2018       | 2019       | 2020       |  |  |
| Current A                 | Assets                              | 17,468,115   | 24,532,556   | 36,677,290 | 26,886,695 | 30,161,824 |  |  |
| Property,                 | Plant, and Equipment                | 15,500,459   | 16,258,622   | 19,308,675 | 29,365,507 | 31,462,800 |  |  |
| Intangible                | e Assets                            | 29,824       | 45,808   | 45,223     | 47,022     | 57,280     |  |  |
| Other Ass                 | sets                                | 2,546,117    | 3,356,913  | 3,017,633  | 4,357,554  | 4,210,314  |  |  |
| Total Ass                 | ets                                 | 35,544,515   | 44,193,899   | 59,048,821 | 60,656,778 | 65,892,218 |  |  |
| Curren                    | Before Distribution                 | 10,053,390   | 13,059,869   | 20,152,229 | 15,794,226 | 16,568,758 |  |  |
| Liabiliti                 | After Distribution                  | 10,053,390   | 14,864,645   | 22,360,429 | 18,002,117 | Note       |  |  |
| Non-curre                 | ent Liabilities                     | 7,171,725    | 6,477,683  | 7,536,235  | 12,369,884 | 13,129,068 |  |  |
| Total                     | Before Distribution                 | 17,225,115   | 19,537,552   | 27,688,464 | 28,164,110 | 29,697,826 |  |  |
| Liabiliti                 | After Distribution                  | 17,225,115   | 21,342,328   | 29,896,664 | 30,372,001 | Note       |  |  |
|                           | tributable to<br>lers of the Parent | 18,317,714   | 24,655,662   | 31,360,023 | 32,491,392 | 36,193,592 |  |  |
| Share Cap                 | oital                               | 36,145,881   | 18,047,758   | 18,401,670 | 18,399,089 | 18,561,864 |  |  |
| Capital S                 | urplus                              | 340,713      | (207,088)  | (56,241)   | 543,920    | 384,772    |  |  |
| Retained                  | Before Distribution                 | (18,651,070) | 5,413,602  | 14,077,527 | 14,685,430 | 17,771,636 |  |  |
| Earnings                  | After Distribution                  | (18,651,070) | 3,247,871  | 11,869,327 | 12,477,539 | Note       |  |  |
| Other Equity              |                                     | 641,251      | 1,560,451  | (903,872)  | (977,986)  | (365,619)  |  |  |
| Treasury                  | Treasury Shares                     |              | (159,061)  | (159,061)  | (159,061)  | (159,061)  |  |  |
| Non-controlling Interests |                                     | 1,686        | 685  | 334        | 1,276      | 800        |  |  |
| Total                     | Before Distribution                 | 18,319,400   | 24,656,347   | 31,360,357 | 32,492,668 | 36,194,392 |  |  |
| Equity                    | After Distribution                  | 18,319,400   | 22,851,571   | 29,152,157 | 30,284,777 | Note       |  |  |

Note: Pending approval from the shareholders' meeting.

| Unit: | NT\$ | thousands |  |
|-------|------|-----------|--|
|       |      |           |  |

|              | Year                   | Fina         | ncial Informati | ion for the Las | t Five Fiscal Y | ears       |
|--------------|------------------------|--------------|-----------------|-----------------|-----------------|------------|
| Item         |                        | 2016         | 2017            | 2018            | 2019            | 2020       |
| Current As   | sets                   | 16,562,886   | 23,575,557      | 35,483,232      | 25,503,411      | 28,628,546 |
| Property, P  | lant, and Equipment    | 14,974,723   | 15,781,321      | 18,829,669      | 28,904,312      | 31,016,511 |
| Intangible . | Assets                 | 21,945       | 44,149          | 42,755          | 43,559          | 54,629     |
| Other Asse   | ts                     | 3,949,425    | 4,809,653       | 4,689,353       | 6,075,266       | 6,059,348  |
| Total Asset  | ts                     | 35,508,979   | 44,210,680      | 59,045,009      | 60,526,548      | 65,759,034 |
| Current      | Before Distribution    | 10,022,158   | 13,078,633      | 20,149,508      | 15,733,930      | 16,504,303 |
| Liabilities  | After Distribution     | 10,022,158   | 14,883,409      | 22,357,708      | 17,941,821      | Note       |
| Non-curren   | nt Liabilities         | 7,169,107    | 6,476,385       | 7,535,478       | 12,301,226      | 13,061,139 |
| Total        | Before Distribution    | 17,191,265   | 19,555,018      | 27,684,986      | 28,035,156      | 29,565,442 |
| Liabilities  | After Distribution     | 17,191,265   | 21,359,794      | 29,893,186      | 30,243,047      | Note       |
| Equity Attr  | ributable to Owners of | 18,317,714   | 24,655,662      | 31,360,023      | 32,491,392      | 36,193,592 |
| Share Capi   | tal                    | 36,145,881   | 18,047,758      | 18,401,670      | 18,399,089      | 18,561,864 |
| Capital Sur  | plus                   | 340,713      | (207,088)       | (56,241)        | 543,920         | 384,772    |
| Retained     | Before Distribution    | (18,651,070) | 5,413,602       | 14,077,527      | 14,685,430      | 17,771,636 |
| Earnings     | After Distribution     | (18,651,070) | 3,247,871       | 11,869,327      | 12,477,539      | Note       |
| Other Equi   | ty                     | 641,251      | 1,560,451       | (903,872)       | (977,986)       | (365,619)  |
| Treasury S   | Treasury Shares        |              | (159,061)       | (159,061)       | (159,061)       | (159,061)  |
| Non-contro   | olling Interests       | -            | -               | -               | -               | -          |
| Total        | Before Distribution    | 18,317,714   | 24,655,662      | 31,360,023      | 32,491,392      | 36,193,592 |
| Equity       | After Distribution     | 18,317,714   | 22,850,886      | 29,151,823      | 30,283,501      | Note       |

Note: Pending approval from the shareholders' meeting.

# (II) Statement of Comprehensive Income

# 1. Consolidated Statements of Comprehensive Income

Unit: NT\$ thousands

| Year  | Financial Information for the Last Five Fiscal Years |            |            |            |            |  |  |
|---|--|------------|------------|------------|------------|--|--|
| Item  | 2016   | 2017       | 2018       | 2019       | 2020       |  |  |
| Net Operating Revenue   | 24,124,973   | 34,196,916 | 36,953,032 | 34,995,411 | 39,800,947 |  |  |
| Gross Profit  | 5,836,120  | 12,634,711 | 13,926,319 | 9,615,494  | 13,409,355 |  |  |
| Income from Operations  | (357,623)  | 5,753,206  | 6,509,338  | 3,098,877  | 5,866,477  |  |  |
| Non-operating Income and Expenses                               | (113,431)  | (216,729)  | 2,755,049  | (72,551)   | (25,431)   |  |  |
| Income (loss) before Income Tax                                 | (471,054)  | 5,536,477  | 9,264,387  | 3,026,326  | 5,841,046  |  |  |
| Net Income (Loss) from Continuing<br>Operations                 | (246,795)  | 5,517,309  | 8,992,849  | 3,012,901  | 5,325,612  |  |  |
| Income from Discontinued Operations                             | -  | -          | -          | -          | -          |  |  |
| Net Income (Loss)   | (246,795)  | 5,517,309  | 8,992,849  | 3,012,901  | 5,325,612  |  |  |
| Other Comprehensive Income, net of income tax                   | (76,995)   | 606,648    | (943,048)  | 240,854    | 288,014    |  |  |
| Total Comprehensive Income                                      | (323,790)  | 6,123,957  | 8,049,801  | 3,253,755  | 5,613,626  |  |  |
| Net Income (loss) Attributable to<br>Shareholders of the parent | (243,013)  | 5,517,847  | 8,993,006  | 3,011,960  | 5,326,083  |  |  |
| Net Income (loss) Attributable to Non-<br>controlling interest  | (3,782)  | (538)      | (157)      | 941        | (471)      |  |  |
| Comprehensive Income Attributable to Shareholders of the parent | (318,879)  | 6,124,501  | 8,049,958  | 3,252,814  | 5,614,102  |  |  |
| Comprehensive Income Attributable to Non-controlling interest   | (4,911)  | (544)      | (157)      | 941        | (476)      |  |  |
| Earnings (Loss) Per Share                                       | (0.14)   | 3.06       | 4.94       | 1.64       | 2.90       |  |  |

# 2. Parent Company Only Statements of Comprehensive Income

Unit: NT\$ thousands

| Year  | Financial Information for the Last Five Fiscal Years |            |            |            |            |  |
|---|--|------------|------------|------------|------------|--|
| Item  | 2016   | 2017       | 2018       | 2019       | 2020       |  |
| Net Operating Revenue   | 23,733,107   | 33,500,949 | 36,280,727 | 34,235,969 | 38,995,968 |  |
| Gross Profit  | 5,376,827  | 11,937,095 | 13,297,451 | 8,872,210  | 12,631,084 |  |
| Income from Operations  | (123,382)  | 5,530,009  | 6,391,270  | 2,966,762  | 5,691,103  |  |
| Non-operating Income and Expenses                                     | (351,554)  | (12,162)   | 2,847,107  | 45,198     | 119,895    |  |
| Income (Loss) before income tax                                       | (474,936)  | 5,517,847  | 9,238,377  | 3,011,960  | 5,810,998  |  |
| Net Income (Loss) from<br>Continuing Operations                       | (474,936)  | 5,517,847  | 8,993,006  | 3,011,960  | 5,810,998  |  |
| Income from Discontinued Operations                                   | -  | -          | -          | -          | -          |  |
| Net Income (Loss)   | (243,013)  | 5,517,847  | 8,993,006  | 3,011,960  | 5,326,083  |  |
| Other Comprehensive Income, net of income tax                         | (75,866)   | 606,654    | (943,048)  | 240,854    | 288,019    |  |
| Total Comprehensive Income  | (318,879)  | 6,124,501  | 8,049,958  | 3,252,814  | 5,614,102  |  |
| Net Income (Loss) Attributable to Shareholders of the parent          | (243,013)  | 5,517,847  | 8,993,006  | 3,011,960  | 5,326,083  |  |
| Net Income Attributable to Non-<br>controlling interest               | -  | -          | -          | -          | -          |  |
| Comprehensive Income<br>Attributable to Shareholders of the<br>parent | (318,879)  | 6,124,501  | 8,049,958  | 3,252,814  | 5,614,102  |  |
| Comprehensive Income Attributable to Non-controlling interest         | -  | -          | -          | -          | -          |  |
| Earnings (Loss) Per Share   | (0.14)   | 3.06       | 4.94       | 1.64       | 2.90       |  |

# (III) Independent Auditors' Opinions Over Last Five Fiscal Years

| Year | Name of CPA                   | Audit opinions        |
|------|-------------------------------|-----------------------|
| 2020 | Tung Hui Yeh, Kuo Tyan Hong   | An Unmodified Opinion |
| 2019 | Ming Hui Chen, Ching Pin Shih | An Unmodified Opinion |
| 2018 | Ming Hui Chen, Ching Pin Shih | An Unmodified Opinion |
| 2017 | Ming Hui Chen, Ching Pin Shih | An Unmodified Opinion |
| 2016 | Ming Hui Chen, Ching Pin Shih | An Unmodified Opinion |

Note: The new auditing standard of the Republic of China requires "An unqualified opinion" be replaced by "An unmodified opinion" from 2016.

# II. Financial Analysis for the Last Five Fiscal Years

1. Consolidated Financial Analysis - IFRS

|                           | Year   | Financial analysis for the last Five fiscal years |        |        |        |        |
|---------------------------|--|---|--------|--------|--------|--------|
| Items analyzed            | 2016   | 2017  | 2018   | 2019   | 2020   |        |
| Financial                 | Debt ratio   | 48.46   | 44.21  | 46.89  | 46.43  | 45.07  |
| Structure<br>Analysis (%) | Long-term capital to property, plant and equipment ratio | 164.45  | 191.49 | 201.45 | 152.77 | 156.77 |
| I i anni diten            | Current ratio  | 173.75  | 187.85 | 182.00 | 170.23 | 182.04 |
| Liquidity<br>Analysis (%) | Quick ratio  | 100.98  | 110.85 | 90.76  | 87.52  | 103.20 |
| Allarysis (%)             | Interest coverage multiples                              | (0.55)  | 26.68  | 65.63  | 16.37  | 24.65  |
|                           | Accounts receivable turnover (times)                     | 6.95  | 7.30   | 7.25   | 7.44   | 7.94   |
|                           | Days Sales Outstanding                                   | 52.51   | 50.00  | 50.34  | 49.05  | 45.96  |
|                           | Inventory turnover (times)                               | 2.22  | 2.54   | 1.65   | 1.65   | 2.04   |
| Operating performance     | Average payable turnover (times)                         | 6.67  | 4.34   | 2.60   | 2.76   | 3.78   |
| Analysis                  | Average Inventory turnover days                          | 164.41  | 143.70 | 221.21 | 221.21 | 178.92 |
|                           | Property, plant and equipment turnover (times)           | 1.50  | 2.15   | 2.08   | 1.44   | 1.31   |
|                           | Total assets turnover (times)                            | 0.66  | 0.86   | 0.72   | 0.58   | 0.63   |
|                           | Return on total assets (%)                               | 0.02  | 14.29  | 17.64  | 5.30   | 8.73   |
|                           | Return on equity (%)                                     | (1.34)  | 25.68  | 32.11  | 9.44   | 15.51  |
| Profitability<br>Analysis | Pre-tax income to paid-in capital ratio (%)              | (1.30)  | 30.67  | 50.34  | 16.45  | 31.47  |
|                           | Net income ratio (%)                                     | (1.02)  | 16.13  | 24.34  | 8.61   | 13.38  |
|                           | Basic Earnings per share (NT\$)                          | (0.14)  | 3.06   | 4.94   | 1.64   | 2.90   |
|                           | Cash flow ratio (%)                                      | 53.93   | 53.86  | 50.08  | 28.76  | 59.48  |
| Cash flow                 | Cash flow adequacy ratio (%)                             | 56.89   | 87.65  | 100.94 | 77.63  | 83.96  |
|                           | Cash reinvestment ratio (%)                              | 4.30  | 5.30   | 5.83   | 1.58   | 4.91   |
| Leverage                  | Operating leverage                                       | (4.71)  | 1.34   | 1.33   | 1.88   | 1.64   |
| Leverage                  | Financial leverage                                       | 0.54  | 1.04   | 1.02   | 1.07   | 1.04   |

Analysis of deviation over 20% for the last two years:

- An increase in interest coverage multiples: Mainly due to the increase in Pre-tax income in 2020.
- An increase in accounts payable turnover: Mainly due to the decrease in average accounts payable in 2020
- An increase in inventory turnover: Mainly due to the decrease in average net inventory in 2020.
- An increase in return on total assets: Mainly due to the increase in net Income in 2020.
- An increase in return on equity: Mainly due to the increase in net Income in 2020
- An increase in pre-tax income to paid-in capital ratio: Mainly due to the increase in Pre-tax income in 2020.
- An increase in net income ratio: Mainly due to the increase in net income in 2020.
- An increase in basic Earnings per share: Mainly due to the increase in net income in 2020.
- An increase in cash flow ratio: Mainly due to the increase in Net cash flow from operating activities in 2020
- An increase in cash reinvestment ratio: Mainly due to the increase in Net cash flow from operating activities in 2020.

Note1: Please refer to page 109to 110 of this annual report for the calculation formula.

## 2. Parent Company Only Statements of Financial Analysis - IFRS

|                           | Year   | Financial analysis for the last Five fiscal years |        |        |        |        |
|---------------------------|--|---|--------|--------|--------|--------|
| Items analyze             | ed (Note 2)  | 2016  | 2017   | 2018   | 2019   | 2020   |
| Financial                 | Debt ratio   | 48.41   | 44.23  | 46.89  | 46.32  | 44.96  |
| Structure<br>Analysis (%) | Long-term capital to property, plant and equipment ratio | 170.20  | 197.27 | 206.56 | 154.97 | 158.80 |
| T :: d:4                  | Current ratio  | 165.26  | 180.26 | 176.10 | 162.09 | 173.46 |
| Liquidity<br>Analysis (%) | Quick ratio  | 93.71   | 103.95 | 85.16  | 79.50  | 94.62  |
| Allarysis (%)             | Interest coverage multiples                              | (0.56)  | 26.59  | 65.44  | 16.46  | 24.94  |
|                           | Accounts receivable turnover (times)                     | 6.47  | 6.71   | 7.02   | 7.56   | 7.83   |
|                           | Days Sales Outstanding                                   | 56.41   | 54.39  | 51.99  | 48.28  | 46.61  |
| Omanatina                 | Inventory turnover (times)                               | 2.25  | 2.56   | 1.66   | 1.65   | 2.05   |
| Operating Performance     | Average payable turnover (times)                         | 6.69  | 4.34   | 2.59   | 2.76   | 3.78   |
| Analysis                  | Average inventory turnover days                          | 162.22  | 142.57 | 219.87 | 221.21 | 178.04 |
|                           | Property, plant and equipment turnover (times)           | 1.53  | 2.18   | 2.10   | 1.43   | 1.30   |
|                           | Total assets turnover (times)                            | 0.65  | 0.84   | 0.70   | 0.57   | 0.62   |
|                           | Return on total assets (%)                               | 0.03  | 14.29  | 17.64  | 5.30   | 8.74   |
|                           | Return on equity (%)                                     | (1.32)  | 25.68  | 32.11  | 9.43   | 15.51  |
| Profitability<br>Analysis | Pre-tax income to paid-in capital ratio (%)              | (1.31)  | 30.57  | 50.20  | 16.37  | 31.30  |
|                           | Net income ratio (%)                                     | (1.02)  | 16.47  | 24.79  | 8.80   | 13.66  |
|                           | Basic Earnings per share (NT\$)                          | (0.14)  | 3.06   | 4.94   | 1.64   | 2.90   |
|                           | Cash flow ratio (%)                                      | 54.99   | 52.50  | 51.59  | 27.54  | 56.68  |
| Cash Flow                 | Cash flow adequacy ratio (%)                             | 65.72   | 88.36  | 104.79 | 78.34  | 82.83  |
|                           | Cash reinvestment ratio (%)                              | 4.40  | 5.19   | 6.07   | 1.44   | 4.60   |
| Leverage                  | Operating leverage                                       | (15.21)   | 1.36   | 1.33   | 1.90   | 1.65   |
| Leverage                  | Financial leverage                                       | 0.29  | 1.04   | 1.02   | 1.07   | 1.04   |

Analysis of deviation over 20% for the last two years.:

- An increase in interest coverage multiples: Mainly due to the increase in Pre-tax income in 2020.
- An increase in accounts payable turnover: Mainly due to the decrease in average payable in 2020.
- An increase in inventory turnover: Mainly due to the decrease in average net inventory in 2020.
- An increase in return on total assets: Mainly due to the increase in net Income in 2020.
- An increase in return on equity: Mainly due to the increase in net Income in 2020
- An increase in pre-tax income to paid-in capital ratio: Mainly due to the increase in Pre-tax income in 2020.
- An increase in net income ratio: Mainly due to the increase in net income in 2020.
- An increase in basic Earnings per share: Mainly due to the increase in net income in 2020.
- An increase in cash flow ratio: Mainly due to the increase in Net cash flow from operating activities in 2020.
- An increase in cash reinvestment ratio: Mainly due to the increase in Net cash flow from operating activities in 2020.

Note1: The formula for calculation of the preceding table are as follows:

- 1. Financial structure
  - (1) Debt-asset Ratio = Total Liabilities / Total Assets.
  - (2) Long-term Capital to Property, Plant, and Equipment ratio = (Total Equity + Non-current Liabilities) / Net Property, Plant, and Equipment.
- 2. Solvency
  - (1) Current Ratio = Current Assets / Current Liabilities.
  - (2) Quick Ratio = (Current Assets Inventories Prepaid Expenses) / Current Liabilities.
  - (3) Interest coverage multiples = Net income before Tax and Interest / Interest Expenses.
- 3. Operating Performance

- (1) Receivables turnover rate (including bills receivable resulting from accounts receivable and business operations) = Net sales / Average accounts receivable in various periods (including bills receivable resulting from accounts receivable and business operations).
- (2) Days Sales Outstanding = 365 / Receivables Turnover Rate.
   (3) Inventory Turnover Rate = Cost of Sales / Average Inventory.
- (4) Payables turnover rate (including bills payable resulting from accounts payable and business operations) = Cost of sales / Average accounts payable in various periods (including bills payable resulting from accounts payable and business operations).
- (5) Average Inventory Turnover Days = 365 / Inventory Turnover Rate.
- (6) Property, Plant, and Equipment Turnover Rate = Net Sales / Average Net Property, Plant, and Equipment.
- (7) Total Asset Turnover Rate = Net Sales / Average Total Assets.

#### Profitability

- (1) Return on assets (ROA) = [Net income + Interest expenses x (1 interest rates)] / Average total asset.
- (2) Return on Equity = Net Income / Average Total Equity.
- (3) Net Income ratio = Net Income / Net Sales.
- (4) Basic Earnings per Share = (Income Attributable to Owners of Parent Company Dividends on Preferred Stock) / Weighted Average Number of Shares Issued. (Note 2)

#### 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 most recent five years / (capital expenditures + inventory increase + cash dividend) for the most recent five years.
- (3) Cash Reinvestment Ratio = (Net cash flow from operating activities cash dividend) /(gross property, plant, and equipment + long-term investment + other non-current assets + working capital). (Note 3)

## 6. Leverage

- (1) Operating Leverage = (Net Operating Revenue Variable Operating Costs and Expenses) / Operating Income (Note 4).
- (2) Financial Leverage = Operating Income / (Operating Income Interest Expenses).
- Special attention shall be paid to the following matters when using the calculation formula of Note 2: earning per share above:
  - The calculation should be based on the weighted average shares of common stock, rather than the number of issued shares at the end of the year.
  - 2. For any cash capital increase or transaction of treasury stock, the circulation period should be taken into consideration when calculating the weighted average number of shares.
  - For capital increase by retained earnings or capital surplus, the Company shall retrospectively adjust the earnings per share for the past fiscal year and the semi-annual earnings according to the ratio of the capital increase, without considering the issuance period of the capital
  - If the preferred share is a non-convertible cumulative preferred share, the dividend of the year (whether it is issued or not) shall be deducted from net income after tax (NIAT), or net loss after tax. If the preferred stock is non-cumulative, the dividend of the preferred stock should be deducted from the net profit after tax if the Company has net profit after tax. If the Company has a deficit, no adjustment is necessary.
- Note 3: Special attention should be paid to the following matters when measuring cash flow analysis:
  - Net cash flow from operating activities is the net cash inflow from operating activities in the cash flow statement.
  - Capital expenditure is the annual cash outflow of capital investment.
  - The increase in inventory is calculated only when the balance at the end of the period is greater than the balance at the beginning of the period. If the inventory decreases at the end of the year, it is counted as zero.
  - Cash dividends include cash dividends from ordinary shares and preferred stocks.
  - The gross property, plant, and equipment refer to the total value of PP&E prior to accumulated depreciation.
- Note 4: The issuer shall classify the operating costs and operating expenses as fixed or variable in accordance with their nature. If it involves estimation or subjective judgment, the classification shall remain reasonable and consistent.
- If the Company's shares have no par value or a par value other than NT\$10, this value shall be Note 5: replaced in any calculations that involve the paid-in capital ratio with the equity ratio attributable to owners of parent Company as shown in the balance sheet.

# III. Audit Committee's Report for the Most Recent Year

# **Audit Committee's Report**

To: 2021 Annual Shareholders' Meeting of Macronix International Co., Ltd.

The 2020 Financial Statements of the Company (including the parent company only financial statements), the 2020 Business Report, and the proposed 2020 Distribution Plan have been duly reviewed and concluded by the undersigned as accurate. According to Article 14-4 of Securities and Exchange Act and Article 219 of the Company Act, it is hereby reported as above.

Independent director: Yan-Kuin Su Independent director: Tyzz-Jiun Duh Independent director: Chiang Kao Independent director: John C.F. Chen

Dated: February 26, 2021

- **IV. Financial Statements for the Most Recent Year:** Please refer to pages 125 to 193 of this annual report.
- V. Stand-Alone Financial Statements for the Most Recent Year Certified By the Accountant: Please refer to pages 194 to 258 of this annual report.
- VI. Financial Difficulties Encountered by the Company and Its Affiliated Companies in the Most Recent Fiscal Year and Up to the Printing Date of this Annual Report: None.

# Chapter VII. Review, Analysis, and Risks of Financial Position and Performance

# I. Analysis of Financial Status

Unit: NT\$ thousands

| Item                       | 2020       | 2019       | Difference | %        |  |
|----------------------------|------------|------------|------------|----------|--|
| Current Assets             | 30,161,824 | 26,886,695 | 3,275,129  | 12.18%   |  |
| Non-current Assets         | 35,730,394 | 33,770,083 | 1,960,311  | 5.80%    |  |
| Total Assets               | 65,892,218 | 60,656,778 | 5,235,440  | 8.63%    |  |
| Current Liabilities        | 16,568,758 | 15,794,226 | 774,532    | 4.90%    |  |
| Non-current Liabilities    | 13,129,068 | 12,369,884 | 759,184    | 6.14%    |  |
| Total Liabilities          | 29,697,826 | 28,164,110 | 1,533,716  | 5.45%    |  |
| Equity Attributed to       | 26 102 502 | 32,491,392 | 2 702 200  | 11 200   |  |
| Shareholders of the Parent | 36,193,592 | 32,491,392 | 3,702,200  | 11.39%   |  |
| Non-controlling Interest   | 800        | 1,276      | (476)      | (37.30%) |  |
| Total Equity               | 36,194,392 | 32,492,668 | 3,701,724  | 11.39%   |  |

If the difference in comparison with the previous period exceeds 20%, and the main reason and the impact are analyzed as follows:

• Non-controlling interests: The Non-100% equity holdings in subsidiaries caused a decrease from 2019.

# II. Analysis of Financial Performance

Unit: NT\$ thousands

| Item  | 2020         | 2019         | Difference  | %        |
|---|--------------|--------------|-------------|----------|
| Net Operating Revenue                                     | \$39,800,947 | \$34,995,411 | \$4,805,536 | 13.73%   |
| Operating Costs   | 26,391,592   | 25,379,917   | 1,011,675   | 3.99%    |
| Gross Profit  | 13,409,355   | 9,615,494    | 3,793,861   | 39.46%   |
| Realized (Unrealized) Gains from the Affiliated Companies | -            | -            | -           | -        |
| Realized Gross Profit                                     | 13,409,355   | 9,615,494    | 3,793,861   | 39.46%   |
| Operating Expenses  | 7,542,878    | 6,516,617    | 1,026,261   | 15.75%   |
| Income from Operations                                    | 5,866,477    | 3,098,877    | 2,767,600   | 89.31%   |
| Non-operating Income and Expenses                         | (25,431)     | (72,551)     | 47,120      | 64.95%   |
| Net Income before Tax                                     | 5,841,046    | 3,026,326    | 2,814,720   | 93.01%   |
| Income Tax Expenses                                       | 515,434      | 13,425       | 502,009     | 3739.36% |
| Net Income for the Year                                   | 5,325,612    | 3,012,901    | 2,312,711   | 76.76%   |
| Other Comprehensive Income (Loss)                         | 288,014      | 240,854      | 47,160      | 19.58%   |
| Total Comprehensive Income for the Year                   | \$5,613,626  | \$3,253,755  | \$2,359,871 | 72.53%   |

Analysis of any increase/decrease in ratio exceeding 20%:

- Gross Profit: The increase compared to 2019 was mainly due to higher operating revenue in 2020, and gain from price recovery of inventory in 2020 after listing inventory losses in 2019.
- Income from Operations: The increase compared to 2019 was mainly due to higher gross profit in 2020.
- Non-operating Income and Expenses: The decrease in non-operating expenses compared to 2019 was mainly due to an increase in foreign exchange gain in 2020.
- Net Income before Tax: The increase compared to 2019 was mainly due to higher gross profit in 2020.
- Income Tax Expenses: The increase compared to 2019 was mainly due the increase in profits and decrease in deferred income tax assets in 2020.
- Net Income for the Year: The increase compared to 2019 was mainly due to higher gross profit in 2020.
- Total Comprehensive Income for the Year: The increase compared to 2019 was mainly due to higher gross profit in 2020.

# III. Analysis of Cash Flow

# (I) Cash Flow Analysis and Remedy for Liquidity Shortfall

Unit: NT\$ thousands

| Cash Balance | Net Cash Provided                   | Net Cash used in Investing and | Cash Balance         | Remedy for Liquidity shortfall |                |
|--------------|-------------------------------------|--------------------------------|----------------------|--------------------------------|----------------|
| 12/31/2019①  | by Operating<br>Activities in 2020@ | Financing Activities in 20203  | 12/31/2020<br>①+② -③ | Investing plan                 | Financing plan |
| 8,725,089    | 9,855,219                           | (6,701,009)                    | 11,879,299           | None                           | None           |

Note 1: Analysis of net cash change in 2020

- (1) NT\$9,855.2 million net cash generated by operating activities: mainly from net income and depreciation expenses.
- (2) NT\$6,042.9 million net cash used in investing activities: primarily for capital expenditures.
- (3) NT\$579.3 million net cash used in financing activities: primarily for long-term loans and cash dividend payment.
- (4) NT\$78.7 million net decrease was effect of exchange rate changes

Note 2: Remedial Actions for Liquidity shortfall: Not applicable.

# (II) Cash flow Projection for Next Year:

The Company plan to paying capital expenditures and cash dividends by bank financing and cash on hand

# IV. Recent Years Major Capital Expenditures and Impact on Financial and Business

# (I) Capital Expenditure and Source of Funds

Unit: NT\$ thousands

|   | Actual or Planned                    | Act       | ual use of Cap | T 1 A     |              |
|---|--------------------------------------|-----------|----------------|-----------|--------------|
| Project   | Source of Capital                    | 2018      | 2019           | 2020      | Total Amount |
| Production equipment and advanced process equipment | Self-owned funds,<br>bank borrowings | 4,861,806 | 12,752,517     | 6,036,935 | 23,651,258   |

# (II) Expected Benefits

The capital expenditure mentioned above is for expanding capacity of high-end production and accelerating the development of advanced processes (including 3D NAND); its aim is lowering unit costs and enhancing product competitiveness.

# V. Reinvestment Policy for the Most Recent Fiscal Year, the Main Reasons for the Profits/Losses Generated Thereby, the Plan for Improving Re-Investment Profitability, and Investment Plans for the Coming Year

The Company's reinvestment policy is in line with its operating policies and long-term strategic purposes. Most of the investee companies are consolidated financial statements entities. The value of non-consolidated entities accounts for 3.5% of the total assets. The dividend income for fiscal year 2020 was NT\$101.174thousand on a consolidated basis.

# VI. Analysis of Risk Management in the Most Recent Fiscal Year and Up to the Printing Date of this Annual Report

(I) Effects of Changes in Interest Rates, Foreign Exchange Rates and Inflation on Corporate Finance, and Future Response Measures

#### 1. Interest rate

As countries continue to be vaccinated, the impact of COVID-19 will gradually decline and the global economy is expected to return to growth. However, major economies have all maintained monetary easing and continue roll out large scale stimulus due to several uncertainties, including the coverage and effectiveness of vaccines, as well as the development in US-China relations. Domestic prices and inflation are expected to mild, the economy is expected to grow steadily, and the Central Bank decided to maintain interest rates and continue monetary easing during the joint meeting of directors and supervisors on March 18, 2021, so the domestic financial market will still remain in a low interest environment.

The Company regularly assesses the changes in bank loan rates and actively negotiates with banks to reduce interest rates or take relevant measures to reduce the impact of interest rate fluctuations on the Company's overall operations.

## 2. Foreign exchange rate

As more than 90% of the Company's revenue is denominated in US dollars and Japanese Yen, and about 40% of manufacturing cost as well as 60% of capital expenditure are paid in US dollars and Japanese Yen, exchange rate fluctuations in New Taiwan Dollar against the US Dollar (and Japanese Yen) will have a certain impact on the Company's financial position. The Company takes hedging actions such as disposing US dollars (Japanese Yen) and pre-selling forward foreign exchange based on the account exchange rate, and will continue to implement these measures in the future in the hope of reducing the impact of exchange rate fluctuations on the Company's profit and loss. The Company's net profit on foreign exchange in 2020 was NT\$95,298 thousand.

## 3. Inflation

Major economies will recover at a faster pace this year (2021), and there is still high demand from emerging technology applications around the world, as well as business opportunities from remote work. Hence, Taiwan's export momentum is expected to strengthen and drive an increase in private sector investments. As the domestic economy begins to pick up, private consumptions will show mild growth, and the Central Bank estimates Taiwan's economic growth rate at 4.53% this year (2021). Due to the rebound in global raw material prices, such as crude oil, and the rising cost of international shipping, the prices of imported goods will trend upwards. Combine with the growth in consumption, inflation is expected to rise this year (2021) and estimated at 1.07%. However, the projections are mild and will have a limited effect on the Company.

- (II) Policies, Main Causes of Gain or Loss and Future Response Measures with Respect to High-risk, High-leveraged Investments, Loans of funds to Others or Endorsement Guarantees, and Derivatives Transactions
  - 1. As of the beginning of 2020 to the printing date of this Annual Report, the Company has not engaged in high-risk and leveraged financial investments. Neither did the Company loan any funds or provide any endorsements/guarantees to other parties.

- 2. The Company's derivative trading transactions are mainly hedged. The choice of the option for commodity trading is aimed at avoiding risks arising from the Company's business operations and hedging for the expected foreign exchange net position. In addition, the transaction and settlement difference contributed to the profit and loss of the transaction.
- 3. The Company has established the Procedures for Loaning of Funds to Others, the Operating Procedures for Endorsements and Guarantees, the Procedures for Handling Derivatives Transactions, and the Procedures for Acquisition and Disposal of Assets. All processes adhere strictly to these procedures in order to keep operation and financial risks under control.

# (III) Future R&D Projects and the Expected Expenditure

#### \* Four Domains of the R&D Plan:

- 1. Advanced technology
  - (1) The core technology and patents of the new-generation memory PCM (Phase Change Memory).
  - (2) The core technology and patents of the new-generation memory ReRAM.

## 2. Manufacturing process

- (1) The manufacturing process of the 3D NAND Flash and subsequent derivative developments.
- (2) The manufacturing process of the 19 nm 2D NAND Flash and subsequent micrographic technology development.
- (3) The manufacturing process of the 48 nm NOR Flash and subsequent derivative developments.

#### 3. Product

- (1) High capacity 3D NAND Flash.
- (2) High storage capacity 2D NAND Flash.
- (3) High speed and automotive NOR Flash.

## 4. Quality and Testing

(1) Development of quality certification and production processes for automobiles.

#### **\*** Expected Expenditure for R&D:

The estimated R&D expenditure for 2021 is approximately NT\$5.3 billion. (The expenditure includes personnel costs, equipment royalty, patent rights, trademark application fee, etc.)

# (IV)Changes in Domestic and Overseas Policies and Laws That Have an Impact on the Company's Financial and Business and the Countermeasures:

The Company has always complied with policies and laws and keeps a close eye on significant changes in policies and laws that may affect the Company's financial position and business performance, and makes adjustments accordingly. There were no changes to policies and laws that had a material impact on the Company's financial position and business performance in 2020 and up to the date of report.

# (V) Impact of Changes in Technology and Industry to the Company's Finance and Business and the Countermeasures

The electronics industry and semiconductor market have always been deeply influenced by the business cycle and rapid changes in product demand. However, in recent years, Macronix has successfully deployed in high-capacity and high-quality markets, and thus it can continue to provide high-end application clients with superior products of the highest quality. This has mitigated the impact of technology and industry changes.

We understand that technological breakthroughs and innovations are the key to maintaining international competitiveness, and have thus began preparing for next generation technologies in the memory industry. R&D expenses accounted for approximately 10% of our revenue last year (2020), and were mainly on advanced technology R&D and production process improvement. As of the end of last

year (2020), Macronix has a total of 8,320 patents worldwide. We published numerous papers with both academic and commercial value, and obtained related patents for NAND and 3D stacking technology. Our strong R&D capabilities and abundant intellectual property lay the foundation for our long-term development.

Following new applications of AI, 5G, and IoT, as well as the rapid development of automobile electronics industrial applications, and mobile devices, memory chips will be applied in even more fields. Macronix has both excellent product design and manufacturing technologies, and is able to continue providing customers with high performance and highly reliable memory solutions, creating even greater added value for our products. For example, we were the first to make the innovative proposal to have the main chip of 19 nm Serial NAND Flash process ECC, and this has become a paradigm for the best quality and cost effectiveness. We have gained an important cost advantage in NAND Flash via the 19 nm Serial NAND Flash, and have fully transitioned to industry-leading processes. Furthermore, due to the growing importance of information security in IoT and smart devices, the level of integration and complexity of automobile electronic systems have also increased. Macronix's ArmorFlash<sup>TM</sup> already has a key secure element design and is expected to play a key role in high-end secure memory products. Hence, we will use our advanced technologies, highest quality, and reliable services to provide long-term support, and will work together with our customers to welcome new growth opportunities.

- (VI) Impact of Corporate Image Change on Risk Management and Response Measures: NA.
- (VII) Expected Benefits and Potential Risks of Merger and Acquisition: NA.
- (VIII) Expected Benefits, Potential Risks, and Countermeasures of Factory Expansion

Macronix plans its production capacity based on the market situation, customer demands, and product and technology development requirements. We have dedicated our recent efforts to the development of advanced process 19 nm NAND Flash, 55 nm NOR Flash product manufacturing, and development of 48-layer 3D NAND products, and continue to work towards our goal of 192-layer stacking technology for next generation memory products. We continue to strive for excellent product design, advanced process manufacturing technologies, and providing customers with high performance, high reliability, and high quality memory solutions, in hopes of becoming the major supplier in our respective fields. We will continue to monitor changes in product applications, market, and customer demand, and will use the forecast and production and sales management mechanisms we established to make adjustments in response to our business situation and possible changes, so as to lower our operating risks.

# (IX) Risks Relating to the Concentration of Purchasing or Sales and the Countermeasures

The Company's primary raw materials are silicon wafers, raw chemicals, and gases used for processing. To gain the recognition and trust of customers, the Company's procurement policy builds excellent long-term partnerships with suppliers based on smooth supply chain information. We adopt the strategy of buying from multiple stable sources, and attach great importance to quality. Furthermore, we are now selecting qualified suppliers based on stricter social responsibility and environmental protection requirements. Furthermore, we continue to search for new suppliers to enhance our cost competitiveness and reduce unforeseeable risks in our supply chain.

Our main customers are all world-class. Our sales strategy has been focused on working closely with customers and fostering long-term partnerships, which helps to reduce the risks resulting from changes in customer demand. Furthermore, we stay up-to-date on the rapid changes in the electronics industry and are actively expanding into new markets. We utilize forward-looking product design, process technologies, and the highest quality to lower the risk of sales concentration and demand changes.

- (X) The Impact of Mass Transfer or Change of Equity by Directors, Supervisors, or Shareholders Holding More than 10% of Shares on the Company, Associated Risks and Response Measures: NA.
- (XI) The Impact of Change of Operating Rights on the Company, Associated Risk and Response Measures: NA.

# (XII) Litigious or Non-litigious Events

In 2020 the most important disputes are as follows:

- 1. Case of the theft at FAB 5:
  - (1) Criminal part: The defendant was found guilty by the Hsinchu District Court, and the defendant has appealed to the Taiwan High Court.
  - (2) Criminal and civil part: The Company has filed a criminal and civil lawsuit with the Hsinchu District Court, which is being at the Hsinchu District Court.
- 2. The Company's previous employee David Lin's breach of contract: the employee has been sued for compensation and the final judgement certificate has been obtained and enforced.

## (XIII) Other Important Risks and Countermeasures:

1.Information Security Risk Assessment

The rapid technological development of mobile devices and the Internet in recent years has brought great convenience and efficiency to individuals and corporations. However, threats to information security have also become commonplace. Should a major information security breach occur, the Company's information assets could face intentional/accidental internal/external threats and damage, causing confidential information to lose its confidentiality, usability, and integrity. This could have a major impact on the Company's competitiveness, business operations, and even financial performance and reputation.

Macronix set up the "Information Security Committee" and "Information Security Core Team" to establish an information security policy as well as promote various information security management measures to reduce the risk of a breach of information security. The committee is also dedicated to lowering the risks of any potential management incident to an acceptable degree to ensure the Company's normal operations.

The Company continues to strengthen information security and business secret management, and reviews and revises its information security policy and management regulations in response to management requirements. The preventative measures include establishing appropriate safety control mechanisms for the use of computers, regulatory information devices, and network resources. Confidential information and business secrets are protected by measures such as classification, labeling, and external delivery control. Information security event reporting and handling procedures were established, so that information security events can be immediately handled when they occur. The Company has purchased information security insurance to reduce the damages and impact. In the worst-case scenario, threats can be addressed in a timely manner to contain the damage and impact. Since expensive or complicated management measures and tools can't play their roles if the staff lack adequate awareness of information security and business secrets protection, it is strengthened through annual education and training. The enewsletter is also in place to promote information security so that all employees can do their parts in the Company's information security.

## 2. Tax risks

Tax Policy: Macronix seeks to best manage its tax risks, and devotes itself to information transparency and compliance. We also support government tax policy to drive economic development and sustainability, Macronix's 6 guidelines for tax management are as follows:

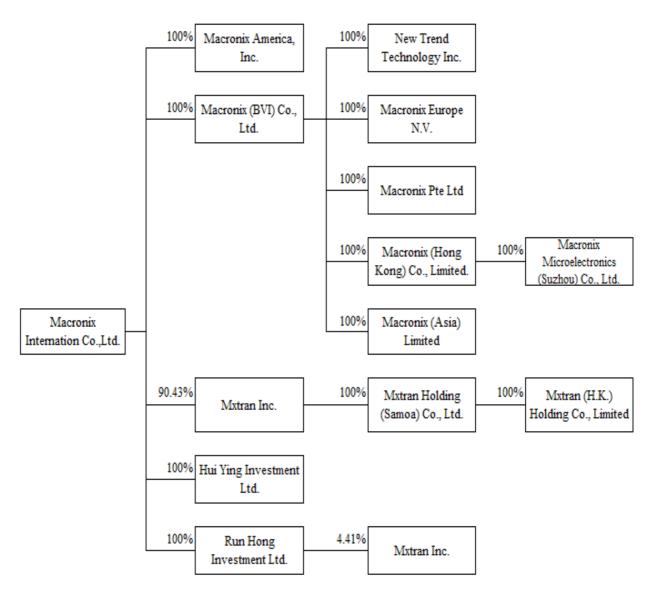
- (1) All operations comply with tax laws and regulations of Taiwan.
- (2) Transactions between affiliated enterprises comply with the internationally recognized pricing principles announced by the OECD, and BEPS related regulations, so that the pricing policy of related parties complies with the arm's length principle.
- (3) In response to the global trend of anti-tax evasion, avoid using countries with low tax rates in tax planning with the purpose of tax evasion.
- (4) Make information in tax reports transparent, submit the Country-by-Country Report, Master File, and Local File to the tax authority, so that tax disclosure complies with laws, regulations, and guidelines.
- (5) The Company's tax planning and decisions all take into consideration the effect of tax risks.
- (6) Establish a good interaction with the tax authority based on the principles of mutual trust and information transparency.

# VII. Other Significant Events: None.

# **Chapter VIII. Special Disclosure**

# I. Summary of Affiliated Companies (Ended on December 31, 2020)

- (I) Consolidated Business Report
  - 1. Corporate Affiliation Chart



# 2. Basic Information of Affiliated Companies

Unit: NT\$ thousands

| Company Name                                 | Establishment<br>Date | Address  | Paid-in Capital | Primary Business or Production                        |
|--|-----------------------|--|-----------------|---|
| Macronix America, Inc.                       | March,1994            | 680 N. McCarthy Blvd Suite 200, Milpitas, CA 95035   | 2,640           | Sales and marketing                                   |
| Macronix (BVI) Co., Ltd.                     | February,1997         | Vistra Corporate Services Centre, Wickhams Cay II,<br>Road Town, Tortola, VG1110,British Virgin Islands      | 6,977,791       | Investment holding company                            |
| Hui Ying Investment Ltd.                     | May,1998              | 20F, 4, Min-Chuan E. Road, Sec.3, Taipei, Taiwan, R.O.C  | 500,000         | Investment  |
| Run Hong Investment Ltd.                     | October,2001          | 19F, 4, Min-Chuan E. Road, Sec. 3, Taipei, Taiwan, R.O.C   | 984,432         | Investment  |
| Mxtran Inc.                                  | August.2006           | 9F, 16, Li-Hsin Road, Science Park, Hsinchu, Taiwan, R.O.C   | 770,000         | IC design   |
| Mxtran Holding (Samoa)<br>Co., Ltd.          | May,2009              | Portcullis Chambers, P.O. Box 1225, Apia, Samoa  | 35,979          | Investment holding company                            |
| Mxtran (H.K.) Holding Co.,<br>Limited        | June,2009             | Rm 1702, Sino Centre 582-592 Nathan Road,<br>Mongkok, Hong Kong  | 23,880          | Investment holding company                            |
| New Trend Technology Inc.                    | January,1999          | 680 N. McCarthy Blvd Suite 200, Milpitas,<br>CA95035   | 899,931         | IC design   |
| Macronix Europe N.V.                         | July,1999             | Koningin Astridlaan 49 Bus 6 1780 Wemmel,<br>Belgium   | 2,106           | After-sales services                                  |
| Macronix Pte Ltd                             | August,2000           | 133 Cecil Street #05-02 Keck Seng Tower<br>Singapore (069535)  | 3,291           | After-sales services                                  |
| Macronix (Hong Kong) Co.,<br>Limited.        | March,2003            | 702-703, 7/F, Building 9, Hong Kong Science Park, 5 Science Park West Avenue, Sha Tin, N.T.                  | 378,427         | Sales and marketing                                   |
| Macronix Microelectronics (Suzhou) Co., Ltd. | September,2005        | No.55, Su Hong Xi Street, Suzhou Industrial Park,<br>SuZhou City, Jiangsu, China                             | 296,160         | development of integrated circuit system and software |
| Macronix (Asia) Limited                      | October,2004          | P.O. Box 31119 Grand Pavilion, Hibiscus Way, 802<br>West Bay Road, Grand Cayman, KY1-1205,<br>Cayman Islands | 23,035          | Investment holding company                            |

<sup>3.</sup>Presumed to be in Effective Control of the Same Shareholder Information with the Affiliate: None.

# 4. Overall Business Scope of Affiliated Companies

The business scope of the Company and its affiliated companies include the research and development, design, manufacture, testing, sales, consultancy of integrated circuits, various semiconductor components, and their system applications, and general investment.

# 5. Directors, Supervisors, and President in all Affiliated Companies:

|                                       | Directors, Sup        | pervisors, and President   | Shares           | Held                 |
|---------------------------------------|-----------------------|--|------------------|----------------------|
| Company Name                          | Title                 | Name or Representative   | Number of Shares | Percentage of Shares |
|                                       | Chairman of the Board | Chih-Yuan Lu   | 0                | 0%                   |
|                                       | Director              | Miin Chyou Wu  | 0                | 0%                   |
| Macronix America, Inc.                | Director              | Dang-Hsing Yiu   | 0                | 0%                   |
|                                       | President             | Ya-Sheng Yang  | 0                | 0%                   |
| Macronix (BVI) Co., Ltd.              | Director              | Miin Chyou Wu  | 0                | 0%                   |
| Hui Ying Investment Ltd.              | Director              | Macronix International Co., Ltd.<br>Representative: Miin Chyou Wu  | -                | 100%                 |
| Run Hong Investment<br>Ltd.           | Director              | Macronix International Co., Ltd.<br>Representative: Miin Chyou Wu  | ı                | 100%                 |
|                                       | Chairman of the Board | Miin Chyou Wu  | 120,000          | 0.16%                |
|                                       | Director              | Macronix International Co., Ltd.<br>Representative: Dang-Hsing Yiu | 69,627,323       | 90.43%               |
| Mxtran Inc.                           | Director/President    | Macronix International Co., Ltd.<br>Representative: Showen Huang   | 69,627,323       | 90.43%               |
|                                       | Director              | Achi Capital Limited   | 90,000           | 0.12%                |
|                                       | Supervisor            | Run Hong Investment Ltd.<br>Representative: Pei-Fu Yeh             | 3,393,200        | 4.41%                |
| Mxtran Holding (Samoa)<br>Co., Ltd.   | Director              | Showen Huang   | 0                | 0%                   |
| Mxtran (H.K.) Holding<br>Co., Limited | Director              | Showen Huang   | 0                | 0%                   |
| New Trend Technology<br>Inc.          | Director              | Pei-Fu Yeh   | 0                | 0%                   |
|                                       | Chairman of the Board | Ful-Long Ni  | 0                | 0%                   |
|                                       | Director              | Miin Chyou Wu  | 1                | 0%                   |
| Macronix Europe N.V.                  | Director              | Chih-Yuan Lu   | 0                | 0%                   |
| Macronix Europe IV. V.                | Director              | Pei-Fu Yeh   | 0                | 0%                   |
|                                       | Director              | Jon-Ten Chung  | 0                | 0%                   |
|                                       | President             | Timothy Pusey  | 0                | 0%                   |
|                                       | Director              | Jon-Ten Chung  | 0                |                      |
| Macronix Pte Ltd                      | Director              | Ful-Long Ni  | 0                | 0%                   |
|                                       | Director/President    | Tan Siah Cheae   | 0                | 0%                   |
|                                       | Director              | Miin Chyou Wu  | 0                | 0%                   |
|                                       | Director              | Chih-Yuan Lu   | 0                | 0%                   |
| Macronix (Hong Kong)                  | Director              | Ful-Long Ni  | 0                | 0%                   |
| Co., Limited.                         | Director              | Pei-Fu Yeh   | 0                | 0%                   |
|                                       | Director              | Jon-Ten Chung  | 0                | 0%                   |
| _                                     | President             | Hao-Wei Hsieh  | 0                | 0%                   |
| Macronix                              | Executive Director    | Miin Chyou Wu  | 0                | 0%                   |
| Microelectronics                      | President             | Hsieng-Hung Chang  | 0                | 0%                   |
| (Suzhou) Co., Ltd.                    | Supervisor            | Hsiu-Mei Lin   | 0                | 0%                   |
| Macronix (Asia) Limited               | Director              | Miin Chyou Wu  | 0                | 0%                   |

# 6. Operational Highlights of Affiliated Companies

Unit: NT\$ thousands

| Company Name                                 | Capital   | Total Assets | Total<br>Liabilities | Net Value | Operating<br>Revenue | Operating<br>Profit | Net Profit<br>(Loss)<br>(after tax) | Earnings per Share (NT\$) (after tax) |
|--|-----------|--------------|----------------------|-----------|----------------------|---------------------|-------------------------------------|---------------------------------------|
| Macronix America, Inc.                       | 2,640     | 369,810      | 191,992              | 177,818   | 1,647,893            | 24,168              | 15,552                              | 155.52                                |
| Macronix (BVI) Co., Ltd.                     | 6,977,791 | 2,244,384    | 125                  | 2,244,259 | -                    | (205)               | 142,922                             | 0.67                                  |
| Hui Ying Investment Ltd.                     | 500,000   | 166,647      | 100                  | 166,547   | -                    | (200)               | 7,014                               | NA                                    |
| Run Hong Investment Ltd.                     | 984,432   | 14,213       | 100                  | 14,113    | -                    | (150)               | (483)                               | NA                                    |
| Mxtran Inc.                                  | 770,000   | 19,751       | 4,256                | 15,495    | 45                   | (9,370)             | (9,138)                             | (0.12)                                |
| Mxtran Holding (Samoa) Co., Ltd.             | 35,979    | 984          | -                    | 984       | -                    | -                   | 1                                   | -                                     |
| Mxtran (H.K.) Holding Co., Limited           | 23,880    | 419          | -                    | 419       | -                    | -                   | -                                   | -                                     |
| New Trend Technology Inc.                    | 899,931   | 278,367      | -                    | 278,367   | -                    | (8,789)             | (8,812)                             | (0.32)                                |
| Macronix Europe N.V.                         | 2,106     | 156,435      | 22,930               | 133,505   | 133,800              | 9,186               | 7,429                               | 7,429                                 |
| Macronix Pte Ltd                             | 3,291     | 24,357       | 2,425                | 21,932    | 22,699               | 1,081               | 2,308                               | 13.26                                 |
| Macronix (Hong Kong) Co., Limited.           | 378,427   | 1,652,887    | 735,188              | 917,699   | 6,393,784            | 108,924             | 130,729                             | 1.46                                  |
| Macronix Microelectronics (Suzhou) Co., Ltd. | 296,160   | 490,576      | 90,101               | 400,475   | 317,991              | 10,286              | 11,040                              | NA                                    |
| Macronix (Asia) Limited                      | 23,035    | 89,888       | 17,439               | 72,449    | 100,553              | 6,151               | 4,016                               | 5.74                                  |

- (II) Consolidated Financial Statements: please refer to page 126 of this annual report.
- (III) Affiliation Report: None.

# II. Private Placement Securities of the Most Recent Year and Up to the Printing Date of this Annual Report: None.

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# III. Subsidiaries' Holding or Disposing the Company's Shares in the Most Recent Fiscal Year and Up to the Printing Date of this Annual Report

Unit: NT\$ thousands; Shares; %

| Name of<br>Subsidiary          | Stock Capital<br>Collected | Fund<br>Source    | Shareholding<br>Ratio of the<br>Company |  | Shares and<br>Amount<br>Acquired | Shares and<br>Amount<br>Disposed of | Investment<br>Gain<br>(Loss) | Shareholdings and<br>Amount Up to the<br>Printing Date of this<br>Annual Report | Mortgage | Endorsement<br>Amount Made<br>for the<br>Subsidiary | Amount<br>Loaned to<br>the<br>Subsidiary |
|--------------------------------|----------------------------|-------------------|---|--|----------------------------------|-------------------------------------|------------------------------|---|----------|---|--|
|                                |                            |                   |   | 2020   | None                             | None                                | None                         |   | None     | None  | None                                     |
| Hui Ying<br>Investment<br>Ltd. | NT\$500,000                | Parent<br>company | 100%                                    | This fiscal<br>year up to the<br>date of<br>publication of<br>the annual<br>report | None                             | None                                | None                         | 1,956,619 shares<br>NT\$87,363 (Note)   | None     | None  | None                                     |

Note: The amount is calculated based on the closing price of the common shares at NT\$44.65 per share on March 30, 2021.

# IV. Other Necessary Supplement: None

V. The Events Resulting in Significant Impact to Shareholders' Equity or Stock Prices Under Article 36(3) (ii) of Securities and Exchange Act in the Most Recent Fiscal Year and Up to the Printing Date of this Annual Report.: None.

# Macronix International Co., Ltd. and Subsidiaries

Consolidated Financial Statements for the Years Ended December 31, 2020 and 2019 and Independent Auditors' Report DECLARATION OF CONSOLIDATION OF FINANCIAL STATEMENTS OF AFFILIATES

The entities that are required to be included in the consolidated financial statements of Macronix

International Co., Ltd. as of and for the year ended December 31, 2020 under the "Criteria

Governing Preparation of Affiliation Reports, Consolidated Business Reports and Consolidated

Financial Statements of Affiliated Enterprises" are all the same as those included in the

consolidated financial statements prepared in conformity with International Financial Reporting

Standard 10 "Consolidated Financial Statements". In addition, all the relevant information required

to be disclosed in the consolidated financial statements have been disclosed. Hence, we do not

prepare a separate set of consolidated financial statements.

Very truly yours,

Macronix International Co., Ltd.

By

Miin Wu Chairman

February 26, 2021

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# Deloitte.

# 勤業眾信

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#### INDEPENDENT AUDITORS' REPORT

The Board of Directors and the Shareholders Macronix International Co., Ltd.

## **Opinion**

We have audited the accompanying consolidated financial statements of Macronix International Co., Ltd. (the "Company") and its subsidiaries (collectively referred to as the "Group"), which comprise the consolidated balance sheets as of December 31, 2020 and 2019, 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, 2020 and 2019, 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, 2020. 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.

Key audit matters for the Company's consolidated financial statements for the year ended December 31, 2020 are stated as follows:

## Valuation of inventory

The Group manufactures and sells ROM products, NOR Flash, and NAND Flash, which are widely used in consumer electronics. As of December 31, 2020, inventory was NT\$12,945,267 thousand, accounting for 20% of the total assets in the consolidated balance sheet. With the current rapid changes in technology and the improvements in manufacturing technologies, market demand for memory chip could change significantly and result in inventory obsolescence. Since inventory valuation and estimates of net realizable value of inventory are subject to management's judgment, they are considered as accounting estimates with relatively high uncertainty. Therefore, valuation of inventory has been identified as a key audit matter. Refer to notes 4 (f), 5 (a), and 10 to the consolidated financial statements for the details of accounting policy, accounting judgment, key sources of estimation uncertainty and the related information about the valuation of inventory.

Our key audit procedures performed in respect of the above area included the following:

- 1. We understood and assessed the adequacy of the policy and procedures for the inventory valuation adopted by the management.
- 2. We obtained data on the assessment of inventory at the lower of cost or net realizable value and selected sample data, and we tested the reasonableness of net realizable value by comparing inventory carrying amounts to recent selling prices; we tested the accuracy of allowance for inventory loss by comparing net realizable value with carrying amounts. We obtained the inventory aging report, and we tested the accuracy and completeness of the report by agreeing the age interval, quantity, and amount to the supporting documents of inbound inventory. We assessed the reasonableness of allowance for inventory loss by recalculating the amount in accordance with the stated valuation policy for the inventory.
- 3. We performed a retrospective review of inventory movements to evaluate the reasonableness of inventory obsolescence reserve policy and policy on scrapping of inventories.

#### Other Matter

We have also audited the parent company only financial statements of the Company as of and for the years ended December 31, 2020 and 2019 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, 2020 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 Tung Hui Yeh and Kuo Tyan Hong.

Deloitte & Touche Taipei, Taiwan Republic of China

February 26, 2021

## 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.

CONSOLIDATED BALANCE SHEETS DECEMBER 31, 2020 AND 2019 (In Thousands of New Taiwan Dollars)

|  | 2020                       |         | 2010                      |         |
|--|----------------------------|---------|---------------------------|---------|
| ASSETS   | 2020<br>Amount             | %       | Amount                    | %       |
|  |                            | , -     |                           | , -     |
| CURRENT ASSETS   | ¢ 11.970.200               | 10      | e 0.705.000               | 1.4     |
| Cash and cash equivalents (Notes 4, 6 and 30)  Notes receivable and trade receivables, net (Notes 4, 9 and 30) | \$ 11,879,299<br>3,454,719 | 18<br>5 | \$ 8,725,089<br>3,947,729 | 14<br>7 |
| Receivables from related parties, net (Notes 4, 30 and 31)   | 1,647,427                  | 3       | 973,076                   | 2       |
| Other receivables (Notes 4, 9, 26 and 30)  | 116,930                    | -       | 156,080                   | _       |
| Inventories (Notes 4, 5 and 10)  | 12,945,267                 | 20      | 12,810,437                | 21      |
| Financial assets measured at amortized cost - current (Notes 4, 8 and 30)                                      | 12,545,207                 | -       | 21,525                    | -       |
| Other current assets (Note 16)   | 118,182                    | _       | 252,759                   | _       |
| Total current assets   | 30,161,824                 | 46      | 26,886,695                | 44      |
| NON-CURRENT ASSETS   |                            |         |                           |         |
| Financial assets at fair value through other comprehensive income (FVTOCI) - non-current (Notes 4, 7 and 30)   | 2,336,074                  | 3       | 2,001,130                 | 3       |
| Property, plant and equipment (Notes 4, 12, 32 and 33)   | 31,462,800                 | 48      | 29,365,507                | 49      |
| Right-of-use assets (Notes 4 and 13)   | 1,042,394                  | 2       | 1,077,468                 | 2       |
| Intangible assets (Notes 4 and 14)   | 57,280                     | _       | 47,022                    | _       |
| Deferred tax assets (Notes 4 and 26)   | 660,294                    | 1       | 1,107,366                 | 2       |
| Other financial assets - non-current (Notes 4, 15, 30 and 32)  | 171,552                    |         | 171,590                   |         |
| Total non-current assets   | 35,730,394                 | 54      | 33,770,083                | 56      |
| TOTAL  | \$ 65,892,218              | 100     | \$ 60,656,778             | 100     |
|  | 9 05,072,210               |         | <u> </u>                  | 100     |
| LIABILITIES AND EQUITY   |                            |         |                           |         |
| CURRENT LIABILITIES Short term horrowings (Notes 17 and 20)  | \$ -                       |         | ¢ 1.550.000               | 2       |
| Short-term borrowings (Notes 17 and 30)  | 92,195                     | -       | \$ 1,550,000              | 3       |
| Contract liabilities (Note 24) Notes payable and trade payables (Notes 18 and 30)                              | 2,940,531                  | 5       | 98,557<br>2,141,510       | 4       |
| Payables to related parties (Notes 30 and 31)  | 4,161,427                  | 6       | 4,720,212                 | 8       |
| Accrued employees' compensation and remuneration of directors (Notes 25 and 31)                                | 1,403,624                  | 2       | 1,285,774                 | 2       |
| Payables for purchases of equipment (Note 30)  | 554,266                    | 1       | 878,536                   | 1       |
| Other payables (Notes 19 and 30)   | 1,481,794                  | 2       | 1,496,387                 | 3       |
| Current tax liabilities (Notes 4 and 26)   | 63,359                     | -       | 11,231                    | -       |
| Provisions - current (Notes 4 and 21)  | 22,687                     | -       | 20,460                    | -       |
| Lease liabilities - current (Notes 4 and 13)   | 104,598                    | -       | 93,919                    | -       |
| Current portion of long-term borrowings (Notes 17, 30 and 32)  | 5,412,007                  | 8       | 3,267,200                 | 5       |
| Other current liabilities (Note 20)  | 332,270                    | 1       | 230,440                   |         |
| Total current liabilities  | 16,568,758                 | 25      | 15,794,226                | 26      |
| NON-CURRENT LIABILITIES  |                            |         |                           |         |
| Long-term borrowings (Notes 17, 30 and 32)   | 10,736,875                 | 16      | 9,774,330                 | 16      |
| Lease liabilities - non-current (Notes 4 and 13)   | 940,302                    | 2       | 973,712                   | 1       |
| Net defined benefit liabilities (Notes 4 and 22)   | 1,432,473                  | 2       | 1,611,562                 | 3       |
| Other non-current liabilities (Note 20)  | 19,418                     |         | 10,280                    |         |
| Total non-current liabilities  | 13,129,068                 | 20      | 12,369,884                | 20      |
| Total liabilities  | 29,697,826                 | 45      | 28,164,110                | 46      |
| EQUITY ATTRIBUTABLE TO SHAREHOLDERS OF THE PARENT (Notes 4, 23 and 28)   |                            |         |                           |         |
| Share capital  |                            |         |                           |         |
| Ordinary shares  | 18,563,017                 | 28      | 18,399,271                | 30      |
| Share capital to be cancelled  | (1,153)                    |         | (182)                     |         |
| Total share capital  | 18,561,864                 |         | 18,399,089                | 30      |
| Capital surplus  | 384,772                    | 1       | 543,920                   | 1       |
| Retained earnings Legal reserve  | 1,741,857                  | 3       | 1,440,661                 | 2       |
| Special reserve  | 621,195                    | 1       | 1,007,052                 | 2       |
| Unappropriated earnings  | 15,408,584                 | 23      | 12,237,717                |         |
| Total retained earnings  | 17,771,636                 | 27      | 14,685,430                | 24      |
| Other equity   | (365,619)                  | (1)     | (977,986)                 | (1)     |
| Treasury shares  | (159,061)                  |         | (159,061)                 |         |
| Equity attributable to shareholders of the parent  | 36,193,592                 | 55      | 32,491,392                | 54      |
| NON-CONTROLLING INTERESTS (Note 23)  | 800                        |         | 1,276                     |         |
| Total equity   | 36,194,392                 | 55      | 32,492,668                | 54      |
|  | \$ 65,892,218              | 100     | \$ 60,656,778             | 100     |

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

# CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME FOR THE YEARS ENDED DECEMBER 31, 2020 AND 2019

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

|  | 2020                                     |                    | 2019                                       |                    |
|--|--|--------------------|--|--------------------|
|  | Amount                                   | %                  | Amount                                     | %                  |
| NET OPERATING REVENUE (Notes 4, 24, 31 and 36)   | \$ 39,800,947                            | 100                | \$ 34,995,411                              | 100                |
| OPERATING COSTS (Notes 4, 10, 22, 25 and 31)   | 26,391,592                               | 66                 | 25,379,917                                 | 72                 |
| GROSS PROFIT   | 13,409,355                               | 34                 | 9,615,494                                  | 28                 |
| OPERATING EXPENSES (Notes 4, 22, 25 and 31) Selling and marketing expenses General and administrative expenses Research and development expenses                 | 1,538,615<br>1,888,419<br>4,115,844      | 4<br>5<br>10       | 1,518,621<br>1,442,077<br>                 | 5<br>4<br>10       |
|  |  |                    |  |                    |
| Total operating expenses   | 7,542,878                                | <u>19</u>          | 6,516,617                                  | 19                 |
| INCOME FROM OPERATIONS   | 5,866,477                                | <u>15</u>          | 3,098,877                                  | 9                  |
| NON-OPERATING INCOME AND EXPENSES Interest income (Note 25) Other income (Notes 4, 7, 13 and 25) Other gains and losses (Note 25) Finance costs (Notes 4 and 25) | 30,858<br>130,386<br>60,281<br>(246,956) | -<br>-<br>-<br>(1) | 38,387<br>152,207<br>(66,202)<br>(196,943) | -<br>-<br>-<br>(1) |
| Total non-operating income and expenses  | (25,431)                                 | (1)                | (72,551)                                   | (1)                |
| INCOME BEFORE INCOME TAX FROM CONTINUING OPERATIONS  | 5,841,046                                | 14                 | 3,026,326                                  | 8                  |
| INCOME TAX EXPENSE (Notes 4 and 26)  | (515,434)                                | (1)                | (13,425)                                   |                    |
| NET INCOME FOR THE YEAR  | 5,325,612                                | 13                 | 3,012,901                                  | 8                  |
| OTHER COMPREHENSIVE INCOME (LOSS) Items that will not be reclassified subsequently to profit or loss:  |  |                    |  |                    |
| Remeasurement of defined benefit plans   | (2,737)                                  | -                  | (108,120)                                  | -                  |
| Unrealized gain on investments in equity instruments at FVTOCI (Notes 23 and 30)  Items that may be reclassified subsequently to profit or                       | 440,966                                  | 1                  | 447,722                                    | 1                  |
| loss: Exchange differences on translating foreign operations (Note 23)   | (150,215)                                |                    | (98,748)                                   |                    |
| Other comprehensive income (loss) for the year, net of income tax  | 288,014                                  | 1                  | 240,854                                    | 1                  |
| TOTAL COMPREHENSIVE INCOME FOR THE YEAR  | \$ 5,613,626                             | <u>14</u>          | \$ 3,253,755 (Co                           | ontinued)          |

# CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME FOR THE YEARS ENDED DECEMBER 31, 2020 AND 2019

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

|   | 2020                |           | 2019                |              |
|---|---------------------|-----------|---------------------|--------------|
|   | Amount              | %         | Amount              | %            |
| NET INCOME (LOSS) ATTRIBUTABLE TO: Shareholders of the parent | \$ 5,326,083        | 13        | \$ 3,011,960        | 9            |
| Non-controlling interests                                     | <u>(471)</u>        |           | 941                 | <del>_</del> |
|   | <u>\$ 5,325,612</u> | <u>13</u> | \$ 3,012,901        | 9            |
| TOTAL COMPREHENSIVE INCOME (LOSS) ATTRIBUTABLE TO:            |                     |           |                     |              |
| Shareholders of the parent                                    | \$ 5,614,102        | 14        | \$ 3,252,814        | 9            |
| Non-controlling interests                                     | (476)               |           | 941                 |              |
|   | \$ 5,613,626        | <u>14</u> | <u>\$ 3,253,755</u> | 9            |
| EARNINGS PER SHARE (Note 27)                                  | ¢ 2.00              |           | ф 1 <i>СА</i>       |              |
| Basic<br>Diluted  | \$ 2.90<br>\$ 2.84  |           | \$ 1.64<br>\$ 1.61  |              |

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

(Concluded)

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY FOR THE YEARS ENDED DECEMBER 31, 2020 AND 2019 (In Thousands of New Taiwan Dollars)

|  |  |                    |               |                                  |                 |               | Equity Attributable to S | Equity Attributable to Shareholders of the Parent | ınt                               | 4<br>8                                 |                          |                 |             |                              |               |
|--|--|--------------------|---------------|----------------------------------|-----------------|---------------|--------------------------|---|-----------------------------------|--|--------------------------|-----------------|-------------|------------------------------|---------------|
| Market   M   |  |                    | Share Canital |                                  |                 |               | Retained Earnings        |   | Exchange<br>Differences on        | Other Equity Unrealized Gain (Loss) on | Employees,               |                 |             |                              |               |
| 1440.20   1. 10.000000000000000000000000000000   |  | Shares (Thousands) |               | Share Capital to be<br>Cancelled | Capital Surplus | Legal Reserve | Special Reserve          | Unappropriated<br>Earnings                        | Translating<br>Foreign Operations | Financial<br>Assets at FVTOCI          | Unearned<br>Compensation | Treasury Shares | Total       | Non-controlling<br>Interests | Total Equity  |
| Figure 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.  | BALANCE AT JANUARY 1, 2019   | 1,840,292          |               |                                  |                 |               |                          |   |                                   |  |                          |                 |             |                              | \$ 31,360,357 |
| Control         Control <t< td=""><td>Legal reserve</td><td>1</td><td>1</td><td>•</td><td>1</td><td>899,301</td><td>1</td><td>(899,301)</td><td>•</td><td>•</td><td>1</td><td></td><td></td><td>1</td><td>•</td></t<>  | Legal reserve  | 1                  | 1             | •                                | 1               | 899,301       | 1                        | (899,301)   | •                                 | •                                      | 1                        |                 |             | 1                            | •             |
| 1,000,000,000,000,000,000,000,000,000,0  | Special reserve  | 1                  | •             | Í                                | •               | 1             | 932,777                  | (932,777)   | •                                 | i                                      | •                        | 1               | •           | 1                            | 1             |
| One of the control with the contro                        | Cash dividends distributed by the Company - \$1.20 per share   | •                  | •             |                                  | •               | ,             | •                        | (2,208,200)                                       |                                   |  | ,                        | ٠               | (2,208,200) | ,                            | (2,208,200)   |
| Control Repair         Control   | Net income (loss) for the year ended<br>December 31, 2019  | ,                  | •             | ,                                | ,               | •             | ,                        | 3,011,960   |                                   |  | ,                        | ,               | 3,011,960   | 941                          | 3,012,901     |
| Fig. 1. Sept. 1. Sept | Other comprehensive income (loss) for the year ended December 31, 2019, net of income tax                    |                    |               | 1                                | "               |               |                          | (108,120)   | (98,748)                          | 447,722                                |                          |                 | 240,854     |                              | 240,854       |
| byored since | Total comprehensive income (loss) for the year ended December 31, 2019                                       |                    |               |                                  |                 |               |                          | 2,903,840   | (98,748)                          | 447,722                                |                          |                 | 3,252,814   | 941                          | 3,253,755     |
| be for   | Issuance of restricted shares for employees  |                    |               | •                                | 508,772         |               |                          | •   |                                   |  | (508,772)                | •               | •           | •                            |               |
| rot cupped (265) (2664) | Compensation cost of restricted shares for employees   | •                  | •             | ,                                | 86,460          | •             | ,                        | (87,737)  |                                   | •                                      | 85,684                   | ,               | 84,407      | •                            | 84,407        |
| 1, 18, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19  | Retirement of restricted shares for employees  | (365)              | (3,648)       | 1,067                            | 2,581           |               | •                        |   | •                                 |  | ,                        |                 |             | •                            |               |
| 1.589.97   1.589.97   1.589.97   1.589.97   1.440.00   1.400.00   1.400.00   1.227717    | Dividends paid to subsidiaries to adjust capital surplus   | ,                  | ,             | •                                | 2,348           | ,             | ,                        |   | •                                 | ,                                      | •                        |                 | 2,348       | ,                            | 2,348         |
| 1, 18, 18, 18, 18, 18, 18, 18, 18, 18,   | Increase in non-controlling interests  |                    |               |                                  |                 |               |                          |   |                                   |  |                          |                 |             | 1                            | 1             |
| 1.00      | BALANCE AT DECEMBER 31, 2019   | 1,839,927          | 18,399,271    | (182)                            | 543,920         | 1,440,661     | 1,007,052                | 12,237,717  | (235,880)                         | (299,040)                              | (443,066)                | (159,061)       | 32,491,392  | 1,276                        | 32,492,668    |
| (38,887)         38,887 <th< td=""><td>Legal reserve</td><td>•</td><td>•</td><td>i</td><td>•</td><td>301,196</td><td>•</td><td>(301,196)</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></th<>  | Legal reserve  | •                  | •             | i                                | •               | 301,196       | •                        | (301,196)   | •                                 | •                                      | •                        | •               | •           | •                            | •             |
| 1.566.20    | Special reserve  | •                  | •             | ı                                | •               | •             | (385,857)                | 385,857   | •                                 | 1                                      | •                        |                 | 1           | 1                            | •             |
| 1,856,322   1,85   | Cash dividends distributed by the Company - \$1.20 per share   | •                  |               | ,                                | •               |               | •                        | (2,207,891)                                       |                                   |  | ,                        | •               | (2,207,891) | 1                            | (2,207,891)   |
| 1,5,400   1,6,400   1,5,200   2,5,20,100     | Net income (loss) for the year ended<br>December 31, 2020  | •                  | ,             |                                  | ,               | ,             | •                        | 5,326,083   |                                   | •                                      | ,                        |                 | 5,326,083   | (471)                        | 5,325,612     |
| 1.856.302   2.816.50.01   2.816.02   2.816   | Other comprehensive income (loss) for the year ended December 31, 2020, net of income tax                    |                    |               |                                  | '               |               |                          | (2,737)   | (150,210)                         | 440,966                                |                          |                 | 288,019     | (5)                          | 288,014       |
| 16,400   164,002   | Total comprehensive income (loss) for the year ended December 31, 2020                                       |                    |               |                                  |                 |               |                          | 5,323,346   | (150,210)                         | 440,966                                |                          |                 | 5,614,102   | (476)                        | 5,613,626     |
| 16,400   164,002   | Disposal of investments in equity instruments designated as at fair value through other comprehensive income |                    |               |                                  |                 |               |                          | (29,100)  |                                   | 29,100                                 | •                        |                 |             |                              |               |
| C25   C256   (971)   | Issuance of restricted shares for employees  | 16,400             | 164,002       | •                                | (164,002)       | •             | 1                        | •   | •                                 | •                                      | 1                        |                 |             | 1                            | •             |
| (25)         (256)         (971)         1,227         .   | Compensation cost of restricted shares for employees   | ,                  | ,             | •                                | 1,300           | ,             | ,                        | (149)   | •                                 | ,                                      | 292,511                  |                 | 293,662     | ,                            | 293,662       |
|  | Retirement of restricted shares for employees  | (25)               | (256)         | (971)                            | 1,227           |               | •                        | 1   | •                                 | 1                                      |                          |                 |             | •                            |               |
| 1.856,302 \$ 18,563,017 \$ (1,153) \$ 384,772 \$ 1,741,857 \$ 621,195 \$ 15,408,584 \$ (386,090) \$ 171,026 \$ (150,555) \$ (150,061) \$ 36,193,592 \$   | Dividends paid to subsidiaries to adjust capital surplus   |                    |               |                                  | 2,327           |               |                          |   |                                   |  |                          |                 | 2,327       |                              | 2,327         |
|  | BALANCE AT DECEMBER 31, 2020   | 1,856,302          |               |                                  |                 |               |                          | ll ll   |                                   |  |                          |                 |             | \$ 800                       | \$ 36,194,392 |

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

# CONSOLIDATED STATEMENTS OF CASH FLOWS FOR THE YEARS ENDED DECEMBER 31, 2020 AND 2019

(In Thousands of New Taiwan Dollars)

| Income before income tax   |  |    | 2020        |    | 2019         |
|--|--|----|-------------|----|--------------|
| Income before income tax   | CASH ELOWS EDOM OBED ATING ACTIVITIES                                      |    |             |    |              |
| Adjustments for   Depreciation expense   3,713,338   2,697,467   Amortization expense   32,989   33,554   Expected credit loss recognized   223   24,9556   196,943   Interest income   (30,858)   (38,387)   Dividend income   (101,174)   (109,016)   Compensation cost of employee restricted shares   293,662   84,407   Gain on disposal of property, plant and equipment   (6,822)   (319,027)   Gain on disposal of property, plant and equipment   (6,822)   (319,027)   Gain on disposal of property, plant and equipment   (6,822)   (319,027)   Gain on disposal of investments   - (7,404)   Net loss (gain) on foreign currency exchange   8,608   (63,592)   Changes in operating assets and liabilities   (637,329)   (206,363)   Receivables from related parties   (637,329)   (206,363)   Receivables from related parties   (637,329)   (310,035)   (202,388   Inventories   (134,830)   (134,830)   (135,806   Contract liabilities   (63,622)   (33,644   Motes payable and trade payables   (63,622)   (43,983)   Payables to related parties   (63,622)   (43,983)   Payables for employees' compensation and director's remuneration   117,850   (1,006,661)   (406,042)   Payables for employees' compensation and director's remuneration   117,850   (1,006,661)   (406,942)   Provision   (2,227)   (8,057)   (4,067,942)    |  | \$ | 5 841 046   | \$ | 3 026 326    |
| Disperciation expense   3,713,338   2,697,467   Amortization expense   32,989   33,554   Expected credit loss recognized   223   1- 1   Finance costs   246,956   196,943   Interest income   (101,174)   (109,016)   Compensation cost of employee restricted shares   236,665   38,387)   Dividend income   (101,174)   (109,016)   Compensation cost of employee restricted shares   233,662   34,007   Gain on disposal of property, plant and equipment   (6,822)   (319,027)   Gain on disposal of investments   - (7,404)   Net loss (gain) on foreign currency exchange   8,608   (63,592)   Changes in operating assets and liabilities   Notes receivable and trade receivables   519,076   (206,363)   Receivables from related parties   (637,329)   (310,035)   Other receivables   21,095   20,258   Inventories   (134,830)   5,138,797   Other current assets   130,401   185,806   Contract liabilities   (6,362)   83,644   Notes payable and trade payables   795,312   (463,983)   Payables to related parties   (582,175)   (4,600,942)   Payables for employees' compensation and director's remuneration   117,850   (1,006,640)   Other payables   7,663   89,114   Other payables   7,663   89,114   Other payables to related parties   (58,591)   Other current liabilities   (38,591)   Other payables to related parties   (39,7375)   Other current liabilities   (38,591)   Other current liabilities   (38,591)   Other payables   7,663   Other payables   7,   |  | Ψ  | 3,041,040   | Ψ  | 3,020,320    |
| Amortization expense         32,989         33,554           Finance costs         246,956         196,943           Interest income         (30,858)         (38,387)           Dividend income         (101,174)         (109,016)           Compensation cost of employee restricted shares         293,662         84,407           Gain on disposal of property, plant and equipment         (6,822)         (319,027)           Gain on disposal of investments         (7,404)           Net loss (gain) on foreign currency exchange         8,608         (63,792)           Changes in operating assets and liabilities         519,076         (206,363)           Receivables from related parties         (637,329)         (310,035)           Other receivables and trade receivables         12,095         20,258           Inventories         (134,830)         513,8797           Other current assets         (134,830)         185,806           Contract liabilities         (6,362)         83,644           Notes payable and trade payables         795,312         (463,983)           Payables for related parties         (82,175)         (4,000,942)           Payables for current liabilities         (3,088)         1,242           Other payables to related parties         (3,098) <td></td> <td></td> <td>3 713 338</td> <td></td> <td>2 697 467</td>   |  |    | 3 713 338   |    | 2 697 467    |
| Expected credit loss recognized   223   196,943   196,   |  |    |             |    |              |
| Finance costs         246,956         196,943           Interest income         (30,858)         (38,887)           Dividend income         (101,174)         (109,016)           Compensation cost of employee restricted shares         293,662         84,407           Gain on disposal of property, plant and equipment         (6,822)         (319,027)           Gain on disposal of investments         -         (7,044)           Net loss (gain) on foreign currency exchange         8,608         (63,592)           Changes in operating assets and liabilities         -         (7,043)           Receivables from related parties         (637,329)         (310,035)           Other receivables         11,095         20,228           Inventories         (134,830)         5,138,797           Other current assets         (6,362)         83,644           Notes payable and trade payables         795,312         (463,983)           Payables for employees' compensation and director's remuneration         117,850         (1,006,601)           Other current liabilities         (30,98)         1,242           Provisions         2,227         (8,057)           Other current liabilities         (3,088)         1,04           Net defined benefit liabilities         (181   |  |    |             |    | 33,334       |
| Interest income   (30,858)   (38,387)   Dividend income   (101,174)   (109,016)   Compensation cost of employee restricted shares   293,662   84,407   Gain on disposal of property, plant and equipment   (6,822)   (319,027)   (319,027)   (319,027)   (319,027)   (319,027)   (319,027)   (319,027)   (310,035)   (310,03   |  |    |             |    | 196 943      |
| Dividend income  |  |    |             |    |              |
| Compensation cost of employee restricted shares         293,662         84,407           Gain on disposal of property, plant and equipment         (6,822)         (319,027)           Gain on disposal of investments         -         (7,404)           Net loss (gain) on foreign currency exchange         8,608         (63,592)           Changes in operating assets and liabilities         519,076         (206,363)           Receivables and trade receivables         519,076         (206,363)           Receivables from related parties         (637,329)         (310,035)           Other receivables         12,095         20,258           Inventories         (134,830)         5,138,797           Other current assets         130,401         185,806           Contract liabilities         (6,362)         88,744           Notes payable and trade payables         795,312         (463,983)           Payables to related parties         (582,175)         (4,660,942)           Payables for employees' compensation and director's remuneration         117,850         (1,006,661)           Other payables to related parties         (3,098)         1,242           Provisions         2,227         (8,057)           Other current liabilities         (3,160)         (3,098)         (1,242   |  |    |             |    |              |
| Gain on disposal of property, plant and equipment (ani on disposal of investments (7,404)         (319,027)           Gain on disposal of investments (63,592)         (7,404)           Net loss (gain) on foreign currency exchange         8,608         (63,592)           Changes in operating assets and liabilities         519,076         (206,363)           Receivables from related parties         (637,329)         (310,035)           Other receivables         21,095         20,258           Inventories         (134,830)         5,138,797           Other current assets         130,401         185,806           Contract liabilities         (6,362)         83,644           Notes payable and trade payables         795,312         (463,983)           Payables for employees' compensation and director's remuneration         117,850         (1,006,661)           Other payables for employees' compensation and director's remuneration         117,850         (1,006,661)           Other payables for employees' compensation and director's remuneration         117,850         (1,006,661)           Other payables for employees' compensation and director's remuneration         117,850         (1,006,661)           Other payables for employees' compensation and director's remuneration         117,850         (1,006,661)           Other payables to related parties   |  |    |             |    |              |
| Gain on disposal of investments         (7,404)           Net loss (gain) on foreign currency exchange         8,608         (63,592)           Changes in operating assets and liabilities         206,363           Notes receivable and trade receivables         519,076         (206,363)           Receivables from related parties         (637,329)         (310,035)           Other receivables         21,095         20,258           Inventories         (134,830)         5,138,797           Other current assets         130,401         185,806           Contract liabilities         (6,362)         83,644           Notes payable and trade payables         795,312         (460,983)           Payables to related parties         (582,175)         (4,060,942)           Payables for employees' compensation and director's remuneration         117,850         (1,006,661)           Other payables         7,663         89,114           Other payables to related parties         (3,098)         1,242           Provisions         2,227         (8,057)           Other current liabilities         (181,826)         (137,375)           Other current liabilities         (181,826)         (137,375)           Cash generated from operations         9,987,381         4,721,190   |  |    |             |    |              |
| Net loss (gain) on foreign currency exchanges         8,608         (63,592)           Changes in operating assets and liabilities         519,076         (206,363)           Receivables from related parties         (637,229)         (310,035)           Other receivables         21,095         20,258           Inventories         (134,830)         5,138,797           Other current assets         130,401         185,806           Contract liabilities         (6,362)         88,644           Notes payable and trade payables         795,312         (463,983)           Payables to related parties         (582,175)         (4,060,942)           Payables for employees' compensation and director's remuneration         117,850         (1,006,661)           Other payables         7,663         89,114           Other payables to related parties         (3,098)         1,242           Provisions         2,227         (8,057)           Other current liabilities         (58,591)         (105,526)           Net defined benefit liabilities         (181,826)         (137,375)           Cash generated from operations         9,987,381         4,721,190           Interest paid         (270,217)         (212,991)           Income tax return (paid)         5,714 <td></td> <td></td> <td>(0,022)</td> <td></td> <td></td>  |  |    | (0,022)     |    |              |
| Changes in operating assets and liabilities         519,076         (206,363)           Notes receivables from related parties         (637,329)         (310,035)           Other receivables         21,095         20,258           Inventories         (134,830)         5,138,797           Other current assets         130,401         185,806           Contract liabilities         (6,362)         83,644           Notes payable and trade payables         795,312         (430,983)           Payables to related parties         (582,175)         (4,060,942)           Payables for employees' compensation and director's remuneration         117,850         (1,006,661)           Other payables to related parties         7,663         89,114           Other payables to related parties         (3,098)         1,242           Provisions         2,227         (8,057)           Other current liabilities         (58,591)         (105,526)           Net defined benefit liabilities         (181,826)         (137,375)           Cash generated from operations         9,987,381         4,721,190           Interest received         31,167         39,370           Dividend received         101,174         108,189           Income tax return (paid)         5,714   |  |    | 8 608       |    | · · /        |
| Notes receivable and trade receivables         519,076         (206,363)           Receivables from related parties         (637,329)         (310,035)           Other receivables         21,095         20,258           Inventories         (134,830)         5,138,797           Other current assets         130,401         185,806           Contract liabilities         (6,362)         83,644           Notes payable and trade payables         795,312         (463,983)           Payables to related parties         (582,175)         (4,060,942)           Payables for employees' compensation and director's remuneration         117,850         (1,006,661)           Other payables         7,663         89,114           Other payables to related parties         (3,098)         1,242           Provisions         (3,098)         1,242           Provisions         (58,591)         (105,526)           Net defined benefit liabilities         (58,591)         (105,526)           Net defined benefit liabilities         (58,591)         (105,526)           Net defined benefit liabilities         (3,983)         4,721,190           Interest received         31,167         39,370           Dividend received         101,174         108,189  |  |    | 0,000       |    | (03,372)     |
| Receivables from related parties         (637,329)         (310,035)           Other receivables         21,095         20,258           Inventories         (134,830)         5,138,797           Other current assets         130,401         185,806           Contract liabilities         (6,362)         83,644           Notes payable and trade payables         795,312         (463,983)           Payables to related parties         (582,175)         (4,060,942)           Payables for employees' compensation and director's remuneration         117,850         (1,006,661)           Other payables to related parties         3(3,098)         1,242           Provisions         2,227         (8,057)           Other payables to related parties         (3,598)         1,242           Provisions         2,227         (8,057)           Other current liabilities         (3,098)         1,242           Provisions         2,227         (8,057)           Other current liabilities         (181,826)         (137,375)           Cash generated from operations         9,987,381         4,721,190           Interest received         31,167         39,370           Dividend received         101,174         108,189           Income tax r  |  |    | 519.076     |    | (206.363)    |
| Other receivables         21,095         20,258           Inventories         (134,830)         5,138,797           Other current assets         130,401         185,806           Contract liabilities         (6,362)         83,644           Notes payable and trade payables         795,312         (463,983)           Payables to related parties         (582,175)         (4,060,942)           Payables for employees' compensation and director's remuneration         117,850         (1,006,661)           Other payables to related parties         (3,098)         1,242           Provisions         (3,227)         (8,057)           Other current liabilities         (58,591)         (105,526)           Net defined benefit liabilities         (181,826)         (137,375)           Cash generated from operations         9,987,381         4,721,190           Interest received         31,167         39,370           Dividend received         101,174         108,189           Interest paid         (270,217)         (212,991)           Income tax return (paid)         5,714         (113,071)           Net cash generated from operating activities         9,855,219         4,542,687           CASH FLOWS FROM INVESTING ACTIVITIES         6,626         - <td></td> <td></td> <td>·</td> <td></td> <td></td>  |  |    | ·           |    |              |
| Inventories  | 1  |    |             |    |              |
| Other current assets         130,401         185,806           Contract liabilities         (6,362)         83,644           Notes payable and trade payables         795,312         (463,983)           Payables to related parties         (582,175)         (4,060,942)           Payables for employees' compensation and director's remuneration         117,850         (1,006,661)           Other payables to related parties         (3,098)         1,242           Provisions         2,227         (8,057)           Other current liabilities         (58,591)         (105,526)           Net defined benefit liabilities         (181,826)         (137,375)           Cash generated from operations         9,987,381         4,721,190           Interest received         31,167         39,370           Dividend received         101,174         108,189           Interest paid         (270,217)         (212,991)           Income tax return (paid)         5,714         (113,071)           Net cash generated from operating activities         9,855,219         4,542,687           CASH FLOWS FROM INVESTING ACTIVITIES         8         2         2           Proceeds from the disposal of financial assets at fair value through other comprehensive income         8,626         -   |  |    |             |    |              |
| Contract liabilities         (6,362)         83,644           Notes payable and trade payables         795,312         (463,983)           Payables to related parties         (582,175)         (4,060,942)           Payables for employees' compensation and director's remuneration         117,850         (1,006,661)           Other payables         7,663         89,114           Other payables to related parties         (3,098)         1,242           Provisions         2,227         (8,057)           Other current liabilities         (58,591)         (105,526)           Net defined benefit liabilities         (181,826)         (137,375)           Cash generated from operations         9,987,381         4,721,190           Interest received         31,167         39,370           Dividend received         101,174         108,189           Increst paid         (270,217)         (212,991)           Income tax return (paid)         5,714         (113,071)           Net cash generated from operating activities         9,855,219         4,542,687           CASH FLOWS FROM INVESTING ACTIVITIES         Froceeds from the disposal of financial assets at fair value through other comprehensive income         8,626         -           Financial assets at amortized cost after maturity         20  |  |    |             |    |              |
| Notes payable and trade payables         795,312 (463,983)           Payables to related parties         (582,175) (4,060,942)           Payables for employees' compensation and director's remuneration         117,850 (1,006,661)           Other payables         7,663 (89,114)           Other payables to related parties         (3,098) (1,242)           Provisions         2,227 (8,057)           Other current liabilities         (58,591) (105,526)           Net defined benefit liabilities         (181,826) (137,375)           Cash generated from operations         9,987,381 (137,375)           Cash generated from operations         9,987,381 (101,174)           Interest received         31,167 (39,370)           Dividend received         101,174 (108,189)           Interest paid         (270,217) (212,991)           Income tax return (paid)         5,714 (113,071)           Net cash generated from operating activities         9,855,219 (25,830)           Payments from the disposal of financial assets at fair value through other comprehensive income         8,626 (6,036,935) (12,752,517)           Proceeds from disposal of property, plant and equipment         (6,036,935) (12,752,517)           Proceeds from disposal of property, plant and equipment         7,623 (340,012) (12,752,517)           Proceeds from disposal of property, plant and equipment         7,62   |  |    |             |    |              |
| Payables to related parties         (582,175)         (4,060,942)           Payables for employees' compensation and director's remuneration         117,850         (1,006,661)           Other payables         7,663         89,114           Other payables to related parties         (3,098)         1,242           Provisions         2,227         (8,057)           Other current liabilities         (58,591)         (105,526)           Net defined benefit liabilities         (181,826)         (137,375)           Cash generated from operations         9,987,381         4,721,190           Interest received         31,167         39,370           Dividend received         101,174         108,189           Interest paid         (270,217)         (212,991)           Income tax return (paid)         5,714         (113,071)           Net cash generated from operating activities         9,855,219         4,542,687           CASH FLOWS FROM INVESTING ACTIVITIES         Proceeds from the disposal of financial assets at fair value through other comprehensive income         8,626         -           Financial assets at amortized cost after maturity         20,955         25,830           Payments for property, plant and equipment         (6,036,935)         (12,752,517)           Proceeds from disposal  |  |    | \ ' · /     |    |              |
| Payables for employees' compensation and director's remuneration         117,850         (1,006,661)           Other payables         7,663         89,114           Other payables to related parties         (3,098)         1,242           Provisions         2,227         (8,057)           Other current liabilities         (58,591)         (105,526)           Net defined benefit liabilities         (181,826)         (137,375)           Cash generated from operations         9,987,381         4,721,190           Interest received         31,167         39,370           Dividend received         101,174         108,189           Interest paid         (270,217)         (212,991)           Income tax return (paid)         5,714         (113,071)           Net cash generated from operating activities         9,855,219         4,542,687           CASH FLOWS FROM INVESTING ACTIVITIES         8,626         -           Proceeds from the disposal of financial assets at fair value through other comprehensive income         8,626         -           Financial assets at amortized cost after maturity         20,955         25,830           Payments for property, plant and equipment         (6,036,935)         (12,752,517)           Proceeds from disposal of property, plant and equipment         7,623 <td></td> <td></td> <td></td> <td></td> <td>. , ,</td>  |  |    |             |    | . , ,        |
| Other payables         7,663         89,114           Other payables to related parties         (3,098)         1,242           Provisions         2,227         (8,057)           Other current liabilities         (58,591)         (105,526)           Net defined benefit liabilities         (181,826)         (137,375)           Cash generated from operations         9,987,381         4,721,190           Interest received         31,167         39,370           Dividend received         101,174         108,189           Interest paid         (270,217)         (212,991)           Income tax return (paid)         5,714         (113,071)           Net cash generated from operating activities         9,855,219         4,542,687           CASH FLOWS FROM INVESTING ACTIVITIES         Proceeds from the disposal of financial assets at fair value through other comprehensive income         8,626         -           Financial assets at amortized cost after maturity         20,955         25,830           Payments for property, plant and equipment         (6,036,935)         (12,752,517)           Proceeds from disposal of property, plant and equipment         7,623         340,012           Increase in refundable deposits         98         10           Payments for intangible assets         (4  |  |    |             |    |              |
| Other payables to related parties         (3,098)         1,242           Provisions         2,227         (8,057)           Other current liabilities         (58,591)         (105,526)           Net defined benefit liabilities         (181,826)         (137,375)           Cash generated from operations         9,987,381         4,721,190           Interest received         31,167         39,370           Dividend received         101,174         108,189           Interest paid         (270,217)         (212,991)           Income tax return (paid)         5,714         (113,071)           Net cash generated from operating activities         9,855,219         4,542,687           CASH FLOWS FROM INVESTING ACTIVITIES         8,626         -           Proceeds from the disposal of financial assets at fair value through other         8,626         -           comprehensive income         8,626         -           Financial assets at amortized cost after maturity         20,955         25,830           Payments for property, plant and equipment         (6,036,935)         (12,752,517)           Proceeds from disposal of property, plant and equipment         7,623         340,012           Increase in refundable deposits         (71)         (63)           Decre  |  |    |             |    |              |
| Provisions         2,227         (8,057)           Other current liabilities         (58,591)         (105,526)           Net defined benefit liabilities         (181,826)         (137,375)           Cash generated from operations         9,987,381         4,721,190           Interest received         31,167         39,370           Dividend received         101,174         108,189           Interest paid         (270,217)         (212,991)           Income tax return (paid)         5,714         (113,071)           Net cash generated from operating activities         9,855,219         4,542,687           CASH FLOWS FROM INVESTING ACTIVITIES         8,626         -           Proceeds from the disposal of financial assets at fair value through other comprehensive income         8,626         -           Financial assets at amortized cost after maturity         20,955         25,830           Payments for property, plant and equipment         (6,036,935)         (12,752,517)           Proceeds from disposal of property, plant and equipment         7,623         340,012           Increase in refundable deposits         98         10           Payments for intangible assets         (43,201)         (35,514)           Pecrease in other financial assets         -         18,678   |  |    |             |    |              |
| Other current liabilities         (58,591)         (105,526)           Net defined benefit liabilities         (181,826)         (137,375)           Cash generated from operations         9,987,381         4,721,190           Interest received         31,167         39,370           Dividend received         101,174         108,189           Interest paid         (270,217)         (212,991)           Income tax return (paid)         5,714         (113,071)           Net cash generated from operating activities         9,855,219         4,542,687           CASH FLOWS FROM INVESTING ACTIVITIES           Proceeds from the disposal of financial assets at fair value through other comprehensive income         8,626         -           Financial assets at amortized cost after maturity         20,955         25,830           Payments for property, plant and equipment         (6,036,935)         (12,752,517)           Proceeds from disposal of property, plant and equipment         7,623         340,012           Increase in refundable deposits         98         10           Payments for intangible assets         (43,201)         (35,514)           Decrease in other financial assets         -         18,678           Net cash used in investing activities         (6,042,905)         (12,403,564)<  |  |    |             |    |              |
| Net defined benefit liabilities         (181,826)         (137,375)           Cash generated from operations         9,987,381         4,721,190           Interest received         31,167         39,370           Dividend received         101,174         108,189           Interest paid         (270,217)         (212,991)           Income tax return (paid)         5,714         (113,071)           Net cash generated from operating activities         9,855,219         4,542,687           CASH FLOWS FROM INVESTING ACTIVITIES           Proceeds from the disposal of financial assets at fair value through other comprehensive income         8,626         -           Financial assets at amortized cost after maturity         20,955         25,830           Payments for property, plant and equipment         (6,036,935)         (12,752,517)           Proceeds from disposal of property, plant and equipment         7,623         340,012           Increase in refundable deposits         98         10           Payments for intangible assets         (43,201)         (35,514)           Decrease in other financial assets         -         18,678           Net cash used in investing activities         (6,042,905)         (12,403,564)  | Other current liabilities  |    |             |    |              |
| Interest received         31,167         39,370           Dividend received         101,174         108,189           Interest paid         (270,217)         (212,991)           Income tax return (paid)         5,714         (113,071)           Net cash generated from operating activities         9,855,219         4,542,687           CASH FLOWS FROM INVESTING ACTIVITIES           Proceeds from the disposal of financial assets at fair value through other comprehensive income         8,626         -           Financial assets at amortized cost after maturity         20,955         25,830           Payments for property, plant and equipment         (6,036,935)         (12,752,517)           Proceeds from disposal of property, plant and equipment         7,623         340,012           Increase in refundable deposits         98         10           Payments for intangible assets         (43,201)         (35,514)           Decrease in other financial assets         -         18,678           Net cash used in investing activities         (6,042,905)         (12,403,564)   | Net defined benefit liabilities  |    |             |    |              |
| Dividend received         101,174         108,189           Interest paid         (270,217)         (212,991)           Income tax return (paid)         5,714         (113,071)           Net cash generated from operating activities           9,855,219         4,542,687           CASH FLOWS FROM INVESTING ACTIVITIES           Proceeds from the disposal of financial assets at fair value through other comprehensive income         8,626         -           Financial assets at amortized cost after maturity         20,955         25,830           Payments for property, plant and equipment         (6,036,935)         (12,752,517)           Proceeds from disposal of property, plant and equipment         7,623         340,012           Increase in refundable deposits         (71)         (63)           Decrease in refundable deposits         98         10           Payments for intangible assets         (43,201)         (35,514)           Decrease in other financial assets         -         18,678    Net cash used in investing activities   | Cash generated from operations   |    | 9,987,381   |    | 4,721,190    |
| Interest paid         (270,217)         (212,991)           Income tax return (paid)         5,714         (113,071)           Net cash generated from operating activities         9,855,219         4,542,687           CASH FLOWS FROM INVESTING ACTIVITIES         Proceeds from the disposal of financial assets at fair value through other comprehensive income         8,626         -           Financial assets at amortized cost after maturity         20,955         25,830           Payments for property, plant and equipment         (6,036,935)         (12,752,517)           Proceeds from disposal of property, plant and equipment         7,623         340,012           Increase in refundable deposits         (71)         (63)           Decrease in refundable deposits         98         10           Payments for intangible assets         (43,201)         (35,514)           Decrease in other financial assets         -         18,678    Net cash used in investing activities   | Interest received  |    | 31,167      |    | 39,370       |
| Income tax return (paid)  Net cash generated from operating activities  Proceeds from the disposal of financial assets at fair value through other comprehensive income Financial assets at amortized cost after maturity Payments for property, plant and equipment Proceeds from disposal of property, plant and equipment Financial assets are in refundable deposits Payments for intangible assets  Refundable deposits Financial assets Financial assets Financial assets at amortized cost after maturity | Dividend received  |    | 101,174     |    | 108,189      |
| Net cash generated from operating activities  Proceeds from the disposal of financial assets at fair value through other comprehensive income Financial assets at amortized cost after maturity Payments for property, plant and equipment Froceeds from disposal of property, plant and equipment Proceeds from disposal of property, plant and equipment Financial assets Financial assets Financial assets at amortized cost after maturity Financial assets at amortized cost after maturity Financial assets of property, plant and equipment Financial assets Fi | Interest paid  |    | (270,217)   |    | (212,991)    |
| CASH FLOWS FROM INVESTING ACTIVITIES  Proceeds from the disposal of financial assets at fair value through other comprehensive income  Financial assets at amortized cost after maturity  Payments for property, plant and equipment  Proceeds from disposal of property, plant and equipment  Increase in refundable deposits  Decrease in refundable deposits  Payments for intangible assets  Net cash used in investing activities  Proceeds from the disposal of financial assets at fair value through other comprehensive income assets at amortized cost after maturity and assets at fair value through other comprehensive income assets at amortized cost after maturity and assets at fair value through other comprehensive income assets at amortized cost after maturity and assets at amortized cost after maturity an | Income tax return (paid)   | _  | 5,714       |    | (113,071)    |
| Proceeds from the disposal of financial assets at fair value through other comprehensive income  Financial assets at amortized cost after maturity  Payments for property, plant and equipment  Proceeds from disposal of property, plant and equipment  Increase in refundable deposits  Decrease in refundable deposits  Payments for intangible assets  Net cash used in investing activities  Proceeds from disposal of property, plant and equipment  7,623  340,012  (63)  (71)  (63)  (72)  (73)  (74)  (75)  (74)  (75)  (75)  (75)  (75)  (76)  (77)  (77)  (78)  (78)  (79)  (79)  (70)  (70)  (70)  (71)  (71)  (71)  (72)  (73)  (73)  (74)  (75)  (75)  (75)  (75)  (76)  (77)  (77)  (78)  (78)  (78)  (79)  (79)  (79)  (70 | Net cash generated from operating activities                               |    | 9,855,219   |    | 4,542,687    |
| comprehensive income Financial assets at amortized cost after maturity Payments for property, plant and equipment Proceeds from disposal of property, plant and equipment Proceeds from disposal of property, plant and equipment T,623 T, | CASH FLOWS FROM INVESTING ACTIVITIES                                       |    |             |    |              |
| comprehensive income Financial assets at amortized cost after maturity Payments for property, plant and equipment Proceeds from disposal of property, plant and equipment Proceeds from disposal of property, plant and equipment T,623 T, | Proceeds from the disposal of financial assets at fair value through other |    |             |    |              |
| Payments for property, plant and equipment Proceeds from disposal of property, plant and equipment Trocease in refundable deposits Toecrease in refundable deposits Toecrease in refundable deposits Toecrease in refundable deposits Toecrease in other financial assets Toecrease in other financial assets Toecrease in other financial assets Toecrease in investing activities Toecrease in other financial assets  | comprehensive income   |    | 8,626       |    | -            |
| Proceeds from disposal of property, plant and equipment 7,623 340,012 Increase in refundable deposits (71) (63) Decrease in refundable deposits 98 10 Payments for intangible assets (43,201) (35,514) Decrease in other financial assets - 18,678  Net cash used in investing activities (6,042,905) (12,403,564)   | Financial assets at amortized cost after maturity                          |    | 20,955      |    | 25,830       |
| Increase in refundable deposits  Decrease in refundable deposits  Payments for intangible assets  Decrease in other financial assets  Net cash used in investing activities  (71) (63) (83) (98) (12,403,514) (35,514) (35,514) (12,403,564)   | Payments for property, plant and equipment                                 |    | (6,036,935) |    | (12,752,517) |
| Decrease in refundable deposits  Payments for intangible assets  Decrease in other financial assets  Net cash used in investing activities  98 10 (35,514) (35,514) - 18,678  (6,042,905) (12,403,564)   | Proceeds from disposal of property, plant and equipment                    |    | 7,623       |    | 340,012      |
| Payments for intangible assets  Decrease in other financial assets  Net cash used in investing activities  (43,201) (35,514)  - 18,678  (6,042,905) (12,403,564)   | Increase in refundable deposits  |    | (71)        |    | (63)         |
| Decrease in other financial assets  - 18,678  Net cash used in investing activities  (6,042,905) (12,403,564)  | Decrease in refundable deposits  |    | 98          |    | 10           |
| Net cash used in investing activities (6,042,905) (12,403,564)   | Payments for intangible assets   |    | (43,201)    |    | (35,514)     |
|  | Decrease in other financial assets   |    | <u>=</u>    |    | 18,678       |
|  | Net cash used in investing activities                                      |    | (6,042,905) |    | (12,403,564) |
|  |  |    | <del></del> |    |              |

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

# CONSOLIDATED STATEMENTS OF CASH FLOWS FOR THE YEARS ENDED DECEMBER 31, 2020 AND 2019

(In Thousands of New Taiwan Dollars)

|  | 2020             | 2019            |
|--|------------------|-----------------|
| CASH FLOWS FROM FINANCING ACTIVITIES                   |                  |                 |
| Proceeds from short-term borrowings                    | \$<br>-          | \$<br>4,000,000 |
| Repayments of short-term borrowings                    | (1,550,000)      | (2,450,000)     |
| Proceeds from long-term borrowings                     | 7,300,000        | 9,776,000       |
| Repayments of long-term borrowings                     | (4,192,648)      | (5,955,028)     |
| Proceeds from guarantee deposits received              | 193,798          | 550             |
| Refund of guarantee deposits received                  | (16,946)         | (150)           |
| Repayment of leased liabilities                        | (107,963)        | (119,548)       |
| Distribution of cash dividends                         | (2,205,564)      | (2,205,852)     |
| Increase in non-controlling interests                  | <br><del>_</del> | <br>1           |
| Net cash (used in) generated from financing activities | <br>(579,323)    | <br>3,045,973   |
| EFFECT OF EXCHANGE RATE CHANGES ON THE BALANCE OF CASH |                  |                 |
| AND CASH EQUIVALENTS HELD IN FOREIGN CURRENCIES        | <br>(78,781)     | <br>(71,509)    |
| NET INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS   | 3,154,210        | (4,886,413)     |
| CASH AND CASH EQUIVALENTS AT THE BEGINNING OF THE YEAR | <br>8,725,089    | <br>13,611,502  |
| CASH AND CASH EQUIVALENTS AT THE END OF THE YEAR       | \$<br>11,879,299 | \$<br>8,725,089 |
|  |                  |                 |
|  |                  |                 |

(Concluded)

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS FOR THE YEARS ENDED DECEMBER 31, 2020 AND 2019 (In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

#### 1. GENERAL INFORMATION

Macronix International Co., Ltd. (the "Company") was incorporated in the Republic of China (ROC) on December 9, 1989 and commenced business in December 1989. The Company operates principally as a designer, manufacturer and supplier of integrated circuits (ICs) and memory chips. The Company also performs design, research and development, consultation and trade of relevant products.

The Company's shares have been listed on the Taiwan Stock Exchange (TWSE) since March 15, 1995.

The consolidated financial statements are presented in the Company's functional currency, the New Taiwan dollar.

#### 2. APPROVAL OF FINANCIAL STATEMENTS

The consolidated financial statements were approved by the Company's board of directors and were authorized for issue on February 26, 2021.

## 3. APPLICATION OF NEW, AMENDED AND REVISED STANDARDS AND INTERPRETATIONS

a. Initial application of the amendments to 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

The initial application of the amendments to the IFRSs endorsed and issued into effect by the FSC did not have material impact on the Group's accounting policies.

b. The IFRSs endorsed by the Financial Supervisory Commission (FSC) for application starting from 2021

| New IFRSs  | Effective Date Announced by IASB                                    |
|--|---|
| Amendments to IFRS 4 "Extension of the Temporary Exemption from Applying IFRS 9"  Amendments to IFRS 9, IAS 39, IFRS 7, IFRS 4 and IFRS 16  "Interest Rate Benchmark Reform - Phase 2" | Effective immediately upon promulgation by the IASB January 1, 2021 |
| Amendment to IFRS 16 "Covid-19-Related Rent Concessions"   | June 1, 2020  |

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. New IFRSs in issue but not yet endorsed and issued into effect by the FSC

|  | <b>Effective Date</b>      |
|--|----------------------------|
| New IFRSs  | Announced by IASB (Note 1) |
|  |                            |
| "Annual Improvements to IFRS Standards 2018-2020"                | January 1, 2022 (Note 2)   |
| Amendments to IFRS 3 "Reference to the Conceptual Framework"     | January 1, 2022 (Note 3)   |
| 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, 2023            |
| Amendments to IFRS 17  | January 1, 2023            |
| Amendments to IAS 1 "Classification of Liabilities as Current or | January 1, 2023            |
| Non-current"   | •                          |
| Amendments to IAS 16 "Property, Plant and Equipment - Proceeds   | January 1, 2022 (Note 4)   |
| before Intended Use"   |                            |
| Amendments to IAS 37 "Onerous Contracts - Cost of Fulfilling a   | January 1, 2022 (Note 5)   |
| Contract"  | . , ,                      |

- Note 1: Unless stated otherwise, the above New IFRSs are effective for annual reporting periods beginning on or after their respective effective dates.
- Note 2: The amendments to IFRS 9 will be applied prospectively to modifications and exchanges of financial liabilities that occur on or after the annual reporting periods beginning on or after January 1, 2022.
- Note 3: The amendments are applicable 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, 2022.
- Note 4: The amendments are applicable to property, plant and equipment that are brought to the location and condition necessary for them to be capable of operating in the manner intended by management on or after January 1, 2021.
- Note 5: The amendments are applicable to contracts for which the entity has not yet fulfilled all its obligations on January 1, 2022.

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.

#### 4. SUMMARY OF SIGNIFICANT ACCOUNTING POLICY

#### 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 as 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 defined benefit liabilities.

The fair value measurements, which are grouped into Levels 1 to 3 based on the degree to which the fair value measurement inputs are observable and based on 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 for 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 the 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, even if an agreement to refinance, or to reschedule payments, on a long-term basis is completed after the reporting period and before the consolidated financial statements are authorized for issue; 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. Terms of a liability that could, at the option of the counterparty, result in its settlement by the issue of equity instruments do not affect its classification.

Assets and liabilities that are not classified as current are classified as non-current.

#### d. Basis of consolidation

The consolidated financial statements incorporate the financial statements of the Company and the entities controlled by the Company (i.e. its subsidiaries).

Income and expenses of subsidiaries acquired or disposed of during the period are included in the consolidated statement of comprehensive income from the effective dates of acquisitions 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 Company 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 interests of the Group 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 Company.

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 if the Group had directly disposed of the related assets or liabilities.

The fair value of any investment retained in a former subsidiary at the date when control is lost is regarded as the fair value on initial recognition of financial assets at fair value through profit or loss or, when applicable, the cost on initial recognition of an investment in an associate or a joint venture.

See Note 11 and Table 5 for the detailed information of subsidiaries (including the percentage of ownership and main business).

## e. Foreign currencies

In preparing the financial statements of each individual group, transactions in currencies other than the entity's functional currency (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 in which they arise.

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, in which cases, 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 Company and the Group (including subsidiaries and associates that use currency different from the currency of the Company) 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 Company and non-controlling interests as appropriate).

#### f. Inventories

Inventories consist of raw materials, supplies, finished goods, merchandise 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. 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 standard cost and adjusted to approximate weighted - average cost on the balance sheet date.

# g. Property, plant, and equipment

Property, plant and equipment are stated at cost, less accumulated depreciation and accumulated impairment loss.

Depreciation on 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 effects of any changes in 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.

## h. 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 life, residual value, and amortization method are reviewed at the end of each reporting period, with the effect of any changes in 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) Internally-generated intangible assets - research and development expenditure

Expenditure on research activities is recognized as an expense in the period in which it is incurred.

An internally-generated intangible asset arising from the development phase of an internal project is recognized if, and only if, all of the following have been demonstrated:

- a) The technical feasibility of completing the intangible asset so that it will be available for use or sale;
- b) The intention to complete the intangible asset and use or sell it;
- c) The ability to use or sell the intangible asset;
- d) How the intangible asset will generate probable future economic benefits;
- e) The availability of adequate technical, financial and other resources to complete the development and to use or sell the intangible asset; and
- f) The ability to measure reliably the expenditure attributable to the intangible asset during its development.

The amount initially recognized for internally-generated intangible assets is the sum of the expenditure incurred from the date when the intangible asset first meets the recognition criteria listed above. 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.

i. Impairment of property, plant and equipment, right-of-use asset, intangible assets other than goodwill

At the end of each reporting period, the Group reviews the carrying amounts of its property, plant and equipment, right-of-use asset and intangible assets, excluding goodwill, 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 Group 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 with indefinite useful lives and intangible assets not yet available for use are tested for impairment at least annually, and whenever there is an indication that the asset 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 the corresponding asset or cash-generating unit is increased to the revised estimate of its recoverable amount, but only to the extent of the carrying amount that would have been determined had no impairment loss been recognized on the asset or cash-generating unit in prior years. A reversal of an impairment loss is recognized in profit or loss.

# i. Financial instruments

Financial assets and financial liabilities are recognized when the Group becomes a party to the contractual provisions of the instruments.

Transaction costs that are directly attributable to the acquisition or issue of financial assets and financial liabilities (other than financial assets and financial liabilities at fair value through profit or loss) 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 fair value through profit or loss 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 settlement date basis.

# a) Measurement category

Financial assets are classified into the following categories: Financial assets measured at amortized cost and investments in equity instruments at FVTOCI.

### i. Financial assets measured at amortized cost

Financial assets that meet the following conditions are subsequently measured at amortized cost:

- i) The financial assets are 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 assets 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 measured at amortized cost, including cash and cash equivalents and trade receivables measured 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 a financial asset, except for:

- i) 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 a financial asset; and
- ii) Financial assets that have subsequently become credit-impaired, for which interest income is calculated by applying the effective interest rate to the amortized cost of such a financial asset.

A financial asset is credit impaired when one or more of the following events have occurred:

- i) Significant financial difficulty of the issuer or the borrower;
- ii) Breach of contract, such as a default;
- iii) It is becoming probable that the borrower will enter bankruptcy or undergo a financial reorganization; or
- iv) The disappearance of an active market for that financial asset because of financial difficulties.

Cash equivalents include time deposits with original maturities, 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.

# ii 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 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 the disposal of the equity investments; instead, they 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.

# b) Impairment of financial assets

The Group recognizes a loss allowance for expected credit losses on financial assets measured at amortized cost (including trade receivables).

The Group always recognizes lifetime expected credit losses (i.e. 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 such 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 a 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.

For internal credit risk management purposes, the Group determines that the following situations indicate that a financial asset is in default (without taking into account any collateral held by the Group):

- i Internal or external information show that the debtor is unlikely to pay its creditors.
- ii When a financial asset is more than 90 days past due unless the Group has reasonable and corroborative information to support a more lagged default criterion.

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, except for investments in debt instruments that are measured at FVTOCI, for which the loss allowance is recognized in other comprehensive income and does not reduce the carrying amount of the financial asset.

### 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.

If the Group neither transfers nor retains substantially all the risks and rewards of ownership and continues to control the transferred asset, the Group recognizes its retained interest in the asset and any associated liability for amounts it may have to pay. If the Group retains substantially all the risks and rewards of ownership of a transferred financial asset, the Group continues to recognize the financial asset and also recognizes a collateralized borrowing for the proceeds received.

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. On derecognition of an investment in an equity instrument 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

Equity instruments issued by the Group are recognized at the proceeds received, net of direct issue costs.

The repurchase of the Company'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 Company's own equity instruments.

## 3) Financial liabilities

#### a) Subsequent measurement

All financial liabilities are measured at amortized cost using the effective interest method.

# 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.

#### k. Provisions

Provisions are measured at the best estimate of the discounted cash flows of the consideration required to settle the present obligation at the end of the reporting period, taking into account the risks and uncertainties surrounding the obligation.

## 1. Revenue recognition

The Group identifies contracts with customers, allocates the transaction price to the performance obligations and recognizes revenue when performance obligations are satisfied.

For contracts entered into with the same customer (or related parties of the customer) at or near the same time, those contracts are accounted for as a single contract if the goods or services promised in the contracts are a single performance obligation.

### 1) Revenue from the sale of goods

Revenue from the sale of goods comes from sales of Memory products and wafer fabrication. Sales of Memory products and wafer fabrication are recognized as revenue when the goods are delivered to the customer's specific location because it is the time when the customer has full discretion over the manner of distribution and price to sell the goods, and has the primary responsibility for sales to future customers and bears the risks of obsolescence. Trade receivables are recognized concurrently. For Memory products and wafer fabrication, revenue is recognized when the goods are delivered to the customer's specific location, and the transaction price received is recognized as a contract liability until the goods have been delivered to the customer.

The Group does not recognize revenue on materials delivered to subcontractors because this delivery does not involve a transfer of control.

# 2) Revenue from the rendering of services

As the Group provides rendering services, the related revenue is recognized when services are rendered. Payment for installation services is not due from the customer until the installation services are complete, and therefore, contract assets are recognized over the period in which the

installation services are performed. The contract assets are reclassified to trade receivables when the installation is complete.

#### m. Leases

At the inception of a contract, the Group assesses whether the contract is, or contains, a lease.

For a contract that contains a lease component and non-lease components, the Group allocates the consideration in the contract to each component on the basis of the relative stand-alone price and accounts for each component separately.

# 1) The Group as lessor

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.

When the Group subleases right-of-use assets, the sublease is classified by reference to the right-of-use asset arising from the head lease, not with reference to the underlying asset. However, if the head lease is a short-term lease that the Group, as a lessee, has accounted for applying recognition exemption, the sublease is classified as an operating lease.

Lease payments (less any lease incentives payable) from operating leases are recognized as income on a straight-line basis over the terms of the relevant leases. Initial direct costs incurred in obtaining operating leases are added to the carrying amounts of the underlying assets and recognized as expenses on a straight-line basis over the lease terms. Lease modification that resulted from a negotiation with a lessee is accounted for as a new lease from the effective date of modification.

# 2) The Group as lessee

The Group recognizes right-of-use assets and lease liabilities for all leases at the commencement date of a lease, except for short-term leases and low-value asset leases accounted for applying a recognition exemption where lease payments are recognized as expenses on a straight-line basis over the lease terms.

Right-of-use assets are initially measured at cost, which comprises the initial measurement of lease liabilities adjusted for lease payments made at or before the commencement date, plus any initial direct costs incurred and an estimate of costs needed to restore the underlying assets, and less any lease incentives received. Right-of-use assets are subsequently measured at cost less accumulated depreciation and impairment losses and adjusted for any remeasurement of the lease liabilities. Right-of-use assets are presented on a separate line in the consolidated balance sheets.

Right-of-use assets are depreciated using the straight-line method from the commencement dates to the earlier of the end of the useful lives of the right-of-use assets or the end of the lease terms.

Lease liabilities are initially measured at the present value of the lease payments, which comprise fixed payments, in-substance fixed payments, variable lease payments which depend on an index or a rate, residual value guarantees, the exercise price of a purchase option if the Group is reasonably certain to exercise that option, and payments of penalties for terminating a lease if the lease term reflects such termination, less any lease incentives receivable. The lease payments are discounted using the interest rate implicit in a lease, if that rate can be readily determined. If that rate cannot be readily determined, the Group uses the lessee's incremental borrowing rate.

Subsequently, lease liabilities are measured at amortized cost using the effective interest method, with interest expense recognized over the lease terms. When there is a change in a lease term, a change in the amounts expected to be payable under a residual value guarantee, a change in the assessment of an option to purchase an underlying asset, or a change in future lease payments resulting from a change in an index or a rate used to determine those payments, the Group remeasures the lease liabilities with a corresponding adjustment to the right-of-use-assets. However, if the carrying amount of the right-of-use assets is reduced to zero, any remaining amount of the remeasurement is recognized in profit or loss. For a lease modification that is not accounted for as a separate lease, the Group accounts for the remeasurement of the lease liability by (a) decreasing the carrying amount of the right-of-use asset of lease modifications that decreased the scope of the lease, and recognizing in profit or loss any gain or loss on the partial or full termination of the lease; (b) making a corresponding adjustment to the right-of-use asset of all other lease modifications. Lease liabilities are presented on a separate line in the consolidated balance sheets.

# n. Borrowing costs

Borrowing costs directly attributable to an 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.

Other than stated above, all other borrowing costs are recognized in profit or loss in the period in which they are incurred.

# o. 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 service.

### 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 cost, net interest and remeasurement) under defined benefit retirement benefit plans are determined using the projected unit credit method. Service cost (including current service cost) and net interest on the net defined benefit liability are recognized as employee benefit expenses in the period they occur. Remeasurement, comprising actuarial gains and losses, the effect of the changes to the asset ceiling and the return on plan assets (excluding interest), is recognized in other comprehensive income in the period in which they occur. Remeasurement recognized in other comprehensive income is reflected immediately in retain earnings and will not be reclassified to profit or loss.

Net defined benefit liability represents the actual deficit in the Group's defined benefit plan. Any surplus resulting from this calculation is limited to the present value of any refunds from the plans or reductions in future contributions to the plans.

## 3) Other long-term employee benefits

Other long-term employee benefits are accounted for in the same way as the accounting required for defined benefit plan except that remeasurement is recognized in profit or loss.

#### 4) Termination benefits

A liability for a termination benefit is recognized at the earlier of when the Group can no longer withdraw the offer of the termination benefit and when the Group recognizes any related restructuring costs.

# p. 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 or other equity - employees' unearned compensation. It is recognized as an expense in full at the grant date if vesting immediately.

When restricted shares for employees are issued, other equity - employees' unearned compensation are recognized on the grant date, with a corresponding increase in capital surplus - restricted shares for employees.

At the end of each reporting period, the Group revises its estimate of the number of equity instruments expected to vest. The impact of the revision of the original estimates is recognized in profit or loss such that the cumulative expense reflects the revised estimate, with a corresponding adjustment to the capital surplus - employee share options or capital surplus-restricted share option.

# q. Treasury shares

The parent company's shares held by subsidiaries is reclassified to treasury shares from investment accounted for using equity method and recognized with the original investment cost. Cash dividends earned by subsidiaries are write-off with investment income and adjust capital surplus-treasury share transaction.

# r. Taxation

Income tax expense represents the sum of the tax currently payable and deferred tax.

## 1) Current tax

Income tax payable (recoverable) is based on taxable profit (loss) for the year determined according to the applicable tax laws of each tax jurisdiction.

According to the Income Tax Law in the ROC, 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 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 carry forward and unused tax credits for purchases of machinery, equipment and technology, research and development expenditures and personnel training 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, 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. 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 asset to be recovered. A previously unrecognized deferred tax asset is also reviewed at the end of each reporting period and recognized 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 which the liability is settled or the asset 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

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, in which case, the current and deferred taxes are also recognized in other comprehensive income or directly in equity, respectively.

# 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, estimates 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 year in which the estimate is revised if the revision affects only that period or in the period of the revision and future years if the revision affects both current and future years.

#### a. Write-down of inventory

The net realizable value of inventory is the estimated selling price in the ordinary course of business less the estimated costs of completion and disposal. The estimation of net realizable value was based on current market conditions and historical experience with product sales of a similar nature. Changes in market conditions may have a material impact on the estimation of the net realizable value.

# b. Recognition and measurement of defined benefit plans

The net defined liabilities (assets) and the resulting defined benefit costs under the defined benefit pension plans are calculated using the projected unit credit method. Actuarial assumptions comprise the discount rates, rates of employee turnover, future salary increases, etc. Changes in economic circumstances and market conditions will affect these assumptions and may have a material impact on the amount of related expenses and the liabilities.

#### c. Income taxes

The realizability of deferred tax assets mainly depends on whether sufficient future profit or taxable temporary differences will be available. In cases where the actual future profit generated is less than expected, a material reversal of deferred tax assets may arise, which would be recognized in profit or loss for the period in which such a reversal takes place.

# 6. CASH AND CASH EQUIVALENTS

|   | December 31   |               |    |                 |
|---|---------------|---------------|----|-----------------|
|   | 20            | 020           |    | 2019            |
| Cash on hand Checking accounts and demand deposits Cash equivalents | \$<br>9,      | 11<br>730,077 | \$ | 58<br>7,001,899 |
| Time deposits   |               | 149,211       |    | 1,723,132       |
|   | <u>\$ 11,</u> | 379,299       | \$ | 8,725,089       |

#### 7. FINANCIAL ASSETS AT FAIR VALUE THROUGH OTHER COMPREHENSIVE INCOME

|                                   | December 31  |              |  |
|-----------------------------------|--------------|--------------|--|
|                                   | 2020         | 2019         |  |
| Non-current                       |              |              |  |
| Investments in equity instruments |              |              |  |
| Domestic investments              |              |              |  |
| Listed shares                     | \$ 1,461,804 | \$ 1,182,250 |  |
| Unlisted shares                   | 420,699      | 361,594      |  |
|                                   | 1,882,503    | 1,543,844    |  |
| Foreign investments               | , ,          | , ,          |  |
| Listed shares                     | 453,571      | 421,894      |  |
| Unlisted shares                   | <del>_</del> | 35,392       |  |
|                                   | \$ 2,336,074 | \$ 2,001,130 |  |

These investments in equity instruments are not held for trading. Instead, they are held for medium to long-term strategic purposes. Accordingly, the management elected to designate these investments in equity instruments as at FVTOCI as they believe that recognizing short-term fluctuations in these investments' fair value in profit or loss would not be consistent with the Group's strategy of holding these investments for long-term purposes.

The Group sold its ordinary shares in Tower Semiconductor Ltd. at a fair value of \$4,827 thousand in January 2020. The related unrealized loss on financial assets at FVTOCI of NT\$16,050 thousand under other equity was transferred from other equity to retained earnings.

Due to the liquidation and dissolution of Global Strategic Investment Inc. (Cayman) and Global Strategic Investment Inc. (Samoa), cash in the amount of \$33,280 thousand and 49,116 shares of Amphastar Pharmaceuticals, Inc. at fair value were allocated to the Group in August 2020 based on the shareholding ratio. The related unrealized loss on financial assets at FVTOCI of NT\$13,050 thousand under other equity was transferred to retained earnings.

The Group recognized dividend income of NT\$101,174 thousand and NT\$109,016 thousand for the years ended December 31, 2020 and 2019, respectively. As of December 31, 2020 and 2019, the Group's related investments still held amounted to NT\$1,882,503 thousand and NT\$1,543,844 thousand, respectively.

#### 8. FINANCIAL ASSETS MEASURED AT AMORTIZED COST

|   | December 31 |           |
|---|-------------|-----------|
|   | 2020        | 2019      |
| Current   |             |           |
| Time deposits with original maturities exceeding 1 year | <u>\$ -</u> | \$ 21,525 |

The interest rate for time deposits with original maturities exceeding 1 year was 2.73% per annum as of December 31, 2019.

## 9. NOTES RECEIVABLE, TRADE RECEIVABLES AND OTHER RECEIVABLES

|   | December 31              |                          |  |
|---|--------------------------|--------------------------|--|
|   | 2020                     | 2019                     |  |
| Trade receivables   |                          |                          |  |
| Total amount of trade receivables measured at amortized cost<br>Less: Allowance for impairment loss | \$ 3,471,737<br>(17,018) | \$ 3,964,524<br>(16,795) |  |
|   | \$ 3,454,719             | \$ 3,947,729             |  |
| Other receivables   |                          |                          |  |
| Tax receivable<br>Others  | \$ 110,103<br>6,827      | \$ 123,184<br>32,896     |  |
|   | <u>\$ 116,930</u>        | \$ 156,080               |  |

# a. Trade receivables

The average credit period for sales of goods was 60 days.

In determining the recoverability of a trade receivable, the Group evaluates each customer's credibility and financial position and considers any change in the credit quality of the trade receivable since the date credit was initially granted to the end of the reporting period.

The Group measures the loss allowance for trade receivables at an amount equal to lifetime ECLs.

The expected credit losses on trade receivables are estimated using a provision matrix by reference to past default experience with the respective debtors and an analysis of the debtors' current financial positions, adjusted for factors that are specific to the debtors, general economic conditions of the industry in which the debtors operate and an assessment of both the current as well as the forecasted direction of conditions at the reporting date. The Group estimates expected credit losses based on the number of days for which receivables are past due. As the Group's historical credit loss experience shows significantly different loss patterns for different customer segments, the provision for losses based on past due status of receivables is not further distinguished according to different segments of the Group's customer base.

The aging of trade receivables is as follows:

|                               | December 31         |              |  |
|-------------------------------|---------------------|--------------|--|
|                               | 2020                | 2019         |  |
| Neither past due nor impaired | \$ 3,384,849        | \$ 3,776,736 |  |
| Past due but not impaired     |                     |              |  |
| Within 60 days                | 69,837              | 170,993      |  |
| 61-120 days                   | 33                  | -            |  |
| Over 120 days                 | <del>-</del>        |              |  |
|                               | <u>\$ 3,454,719</u> | \$ 3,947,729 |  |

The above aging schedule was based on the past due days from the end of the credit term.

As of December 31, 2020 and 2019, the Group did not hold collateral for most of its receivables.

The movements of the allowance for doubtful trade receivables are as follows:

|   | For the Year Ended December 31 |                        |  |
|---|--------------------------------|------------------------|--|
|   | 2020                           | 2019                   |  |
| Balance at January 1<br>Add: Amounts recovered<br>Less: Amounts written off | \$ 16,795<br>223               | \$ 16,812<br>-<br>(17) |  |
| Balance at December 31  | <u>\$ 17,018</u>               | <u>\$ 16,795</u>       |  |

## b. Other receivables

No allowance for impairment loss of other receivables was recognized since the other receivables of the Group were not past due and the Group assessed that there was no uncertainty of recoverability.

## 10. INVENTORIES

|   | December 31                         |   |  |
|---|-------------------------------------|---|--|
|   | 2020                                | 2019                                    |  |
| Finished goods and merchandise<br>Work in progress<br>Raw materials | \$ 932,686<br>11,327,960<br>684,621 | \$ 1,001,297<br>10,781,345<br>1,027,795 |  |
|   | <u>\$ 12,945,267</u>                | <u>\$ 12,810,437</u>                    |  |

The costs of inventories recognized as cost of goods sold included inventory loss that resulted from the write-downs of inventory to net realizable value and reversal of inventory loss due to sold of part of the written-down inventory. The amounts were as follows:

|  | For the Year Ended December 31 |              |  |
|--|--------------------------------|--------------|--|
|  | 2020                           | 2019         |  |
| Loss on inventory write-downs (reversal of inventory loss) | <u>\$ (99,103)</u>             | \$ 2,699,918 |  |

## 11. SUBSIDIARIES

# Subsidiaries included in the consolidated financial statements

As of December 31, 2020 and 2019, the Company has direct and indirect majority ownership in the following subsidiaries: Run Hong Investment Ltd. (Run Hong), Hui Ying Investment Ltd. (Hui Ying), Mxtran Inc. (Mxtran), Macronix America, Inc. (MXA), Macronix (BVI) Co., Ltd. (MXBVI), Mxtran Holding (Samoa) Co., Ltd. (Mxtran Samoa), Mxtran (H.K.) Holding Co., Limited (MxtranHK), New Trend Technology Inc. (NTTI), Macronix (Asia) Limited (MX Asia), Macronix Pte Ltd (MPL), Macronix Europe N.V. (MXE), Macronix (Hong Kong) Co., Limited (MXHK) and Macronix Microelectronics (Suzhou) Co., Ltd. (MXm).

|                          |              |   | % of Ov | vnership |
|--------------------------|--------------|---|---------|----------|
|                          |              |   | Decem   | iber 31  |
| Investor                 | Investee     | Nature of Activities                                  | 2020    | 2019     |
| The Company              | Run Hong     | Investment company                                    | 100.00  | 100.00   |
| The Company              | Hui Ying     | Investment company                                    | 100.00  | 100.00   |
| The Company and Run Hong | Mxtran       | IC design   | 94.84   | 94.84    |
| The Company              | MXA          | Sales and marketing                                   | 100.00  | 100.00   |
| The Company              | MXBVI        | Investment holding company                            | 100.00  | 100.00   |
| Mxtran                   | Mxtran Samoa | Investment holding company                            | 100.00  | 100.00   |
| Mxtran Samoa             | Mxtran HK    | Investment holding company                            | 100.00  | 100.00   |
| MXBVI                    | NTTI         | IC design   | 100.00  | 100.00   |
| MXBVI                    | MX Asia      | After-sales service                                   | 100.00  | 100.00   |
| MXBVI                    | MPL          | After-sales service                                   | 100.00  | 100.00   |
| MXBVI                    | MXE          | After-sales service                                   | 100.00  | 100.00   |
| MXBVI                    | MXHK         | Sales and marketing                                   | 100.00  | 100.00   |
| MXHK                     | MXm          | Development of integrated circuit system and software | 100.00  | 100.00   |

## 12. PROPERTY, PLANT AND EQUIPMENT

December 31 2020 2019

Assets used by the Group

|   | Years Ended December 31, 2020    |              |                   |                             |                    |                         |
|---|----------------------------------|--------------|-------------------|-----------------------------|--------------------|-------------------------|
|   | Balance,<br>Beginning of<br>Year | Additions    | Disposals         | Net Exchange<br>Differences | Reclassification   | Balance, End of<br>Year |
| Cost                                    |                                  |              |                   |                             |                    |                         |
| Freehold land                           | \$ 1,257,751                     | \$ -         | \$ -              | \$ (33,005)                 | \$ -               | \$ 1,224,746            |
| Buildings                               | 25,161,752                       | -            | 750               | 3,564                       | 275,330            | 25,439,896              |
| Machinery equipment                     | 91,635,490                       | -            | 204,065           | -                           | 9,422,251          | 100,853,676             |
| Research and development                |                                  |              |                   |                             |                    |                         |
| equipment                               | 3,634,881                        | 2,457        | 14,672            | 611                         | 613,474            | 4,236,751               |
| Transportation equipment                | 28,642                           | -            | 7,240             | 31                          | 1,200              | 22,633                  |
| Leasehold improvements                  | 18,057                           | 272          | 3,106             | (262)                       | 84                 | 15,045                  |
| Miscellaneous equipment                 | 1,225,083                        | 8,556        | 151,224           | (108)                       | 106,551            | 1,188,858               |
| Advance payments and construction       |                                  |              |                   |                             |                    |                         |
| in progress                             | 9,822,103                        | 5,692,111    | 63                | 2                           | (10,423,449)       | 5,090,704               |
|   | 132,783,759                      | \$ 5,703,396 | <u>\$ 381,120</u> | <u>\$ (29,167)</u>          | <u>\$ (4,559</u> ) | 138,072,309             |
| Accumulated depreciation and impairment |                                  |              |                   |                             |                    |                         |
| Freehold land                           | 372,499                          | \$ -         | \$ -              | \$ (18,636)                 | \$ -               | 353,863                 |
| Buildings                               | 20,577,580                       | 414,583      | 750               | 1,205                       | -                  | 20,992,618              |
| Machinery equipment                     | 79,413,703                       | 2,845,771    | 204,065           | -                           | 199,636            | 82,255,045              |
| Research and development                |                                  |              |                   |                             |                    |                         |
| equipment                               | 1,921,379                        | 259,279      | 14,672            | 492                         | (203,687)          | 1,962,791               |
| Transportation equipment                | 17,637                           | 3,042        | 6,660             | 18                          | -                  | 14,037                  |
| Leasehold improvements                  | 16,359                           | 752          | 2,956             | (249)                       | 84                 | 13,990                  |
| Miscellaneous equipment                 | 1,099,095                        | 69,805       | 151,201           | 10                          | (544)              | 1,017,165               |
|   | 103,418,252                      | \$ 3,593,232 | <u>\$ 380,304</u> | <u>\$ (17,160)</u>          | <u>\$ (4,511)</u>  | 106,609,509             |
| Carrying amount at                      |                                  |              |                   |                             |                    |                         |
| December 31, 2020                       | \$ 29,365,507                    |              |                   |                             |                    | \$ 31,462,800           |

|   |   |   | Years Ended De                                   | ecember 31, 2019   |  |   |
|---|---|---|--|--|--|---|
|   | Balance,<br>Beginning of<br>Year                          | Additions   | Disposals  | Net Exchange<br>Differences  | Reclassification                               | Balance, End of<br>Year                                   |
| Cost  |   |   |  |  |  |   |
| Freehold land<br>Buildings<br>Machinery equipment<br>Research and development     | \$ 1,273,924<br>24,888,772<br>87,236,824<br>3,844,510     | \$  | \$ -<br>31,832<br>2,338,063                      | \$ (16,173)<br>(8,267)   | \$ 313,079<br>6,736,729                        | \$ 1,257,751<br>25,161,752<br>91,635,490                  |
| equipment Transportation equipment Leasehold improvements Miscellaneous equipment | 23,983<br>40,157<br>1,198,924                             | 3,050<br>-<br>639<br>7,769                        | 51,944<br>1,140<br>148<br>62,816                 | (1,302)<br>(72)<br>(1,133)<br>(3,383)  | (159,433)<br>5,871<br>(21,458)<br>84,589       | 3,634,881<br>28,642<br>18,057<br>1,225,083                |
| Advance payments and construction in progress                                     | 4,135,257<br>122,642,351                                  | 12,667,672<br>\$ 12,679,130                       | \$ 2,485,943                                     | <u>9</u><br><u>\$ (30,321)</u>   | (6,980,835)<br>\$ (21,458)                     | 9,822,103<br>132,783,759                                  |
| Accumulated depreciation and impairment   |   |   |  |  |  |   |
| Freehold land Buildings Machinery equipment Research and development              | 381,632<br>20,209,450<br>79,576,058                       | \$ -<br>396,660<br>1,921,393                      | \$ -<br>26,066<br>2,322,942                      | \$ (9,133)<br>(2,464)  | \$ - 239,194                                   | 372,499<br>20,577,580<br>79,413,703                       |
| equipment Transportation equipment Leasehold improvements Miscellaneous equipment | 1,989,499<br>15,838<br>38,402<br>1,122,797<br>103,333,676 | 223,971<br>2,961<br>672<br>41,967<br>\$ 2,587,624 | 51,917<br>1,140<br>148<br>62,745<br>\$ 2,464,958 | $ \begin{array}{c} (980) \\ (22) \\ (1,109) \\ \underline{\qquad (2,924)} \\ \underline{\qquad (16,632)} \end{array} $ | (239,194)<br>-<br>(21,458)<br>-<br>\$ (21,458) | 1,921,379<br>17,637<br>16,359<br>1,099,095<br>103,418,252 |
| Carrying amount at<br>December 31, 2019   | <u>\$ 19,308,675</u>                                      |   |  |  |  | <u>\$ 29,365,507</u>                                      |

For the years ended December 31, 2020 and 2019, the Group assessed that no indication of an impairment loss was present; therefore, no impairment assessment was performed.

The carrying amount of the freehold land in the United States which was unutilized by the Group as of December 31, 2020 and 2019 was US\$9,579 thousand, respectively.

The above items of property, plant and equipment are depreciated on a straight-line basis over their estimated useful lives as follows:

| Buildings |
|-----------|
| 3.6 . 1   |

| Main buildings                     | 31-40 years |
|------------------------------------|-------------|
| Electronic equipment               | 11-20 years |
| Facility equipment                 | 15 years    |
| Landscape engineering              | 20 years    |
| Machinery equipment                | 11 years    |
| Research and development equipment | 5-11 years  |
| Transportation equipment           | 5 years     |
| Leasehold improvements             | 6-16 years  |
| Miscellaneous equipment            | 2-16 years  |

Property, plant and equipment pledged as collateral for bank borrowings are set out in Note 32.

# 13. LEASE ARRANGEMENTS

# a. Right-of-use assets

|  | December 31  |   |  |
|--|--|---|--|
|  | 2020   | 2019  |  |
| Carrying amounts   |  |   |  |
| Freehold land Buildings Machinery equipment Transportation equipment Miscellaneous equipment   | \$ 919,621<br>107,825<br>9,445<br>5,003<br>500               | \$ 952,687<br>118,282<br>-<br>6,000<br>499          |  |
|  | <u>\$ 1,042,394</u>  | \$ 1,077,468  |  |
|  | For the Year En  | ded December 31                                     |  |
|  | 2020   | 2019  |  |
| Additions to right-of-use assets   | <u>\$ 76,762</u>   | \$ 82,035   |  |
| Depreciation charge for right-of-use assets Freehold land Buildings Machinery equipment Transportation equipment Miscellaneous equipment | \$ 70,126<br>39,729<br>4,861<br>3,390<br>2,000<br>\$ 120,106 | \$ 70,491<br>33,378<br>3,978<br>1,996<br>\$ 109,843 |  |
| Income from the subleasing of right-of-use assets (included in other income)   | <u>\$ (4,036)</u>  | <u>\$ (3,744)</u>                                   |  |

Except for the recognized depreciation, the Group did not have impairment of right-of-use assets for the years ended December 31, 2020 and 2019.

# b. Lease liabilities

|                        | Decem                    | December 31             |  |  |
|------------------------|--------------------------|-------------------------|--|--|
|                        | 2020 201                 |                         |  |  |
| Carrying amounts       |                          |                         |  |  |
| Current<br>Non-current | \$ 104,598<br>\$ 940,302 | \$ 93,919<br>\$ 973,712 |  |  |

Range of discount rate for lease liabilities was as follows:

|                          | December 31 |             |  |
|--------------------------|-------------|-------------|--|
|                          | 2020        | 2019        |  |
| Freehold land            | 1.67%-1.73% | 1.67%       |  |
| Buildings                | 1.03%-6.00% | 1.07%-4.31% |  |
| Machinery equipment      | 1.05%       | -           |  |
| Transportation equipment | 1.03%-1.22% | 1.22%       |  |
| Miscellaneous equipment  | 1.03%-1.22% | 1.22%       |  |

#### c. Material lease-in activities and terms

The Group also leased certain land and buildings for the use as plant and office in a period of one to twenty years. The Group does not have bargain purchase options to acquire the leasehold land and buildings at the end of the lease terms. In addition, the Group is prohibited from subleasing or transferring all or any portion of the underlying assets without the lessor's consent.

## d. Other lease information

|   | For the Year Ended December 31          |   |  |
|---|---|---|--|
|   | 2020 2019                               |   |  |
| Expenses relating to short-term leases Expenses relating to low-value asset leases Expenses relating to variable lease payments not included in the | <u>\$</u> - <u>\$</u> 299               | \$ 9,783<br>\$ 190                      |  |
| measurement of lease liabilities Total cash outflow for leases  | \$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | \$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |  |

The Group leases certain office buildings which qualify as short-term leases and certain office equipment which qualifies as low-value asset leases. The Group has elected to apply the recognition exemption and thus, did not recognize right-of-use assets and lease liabilities for these leases.

## 14. INTANGIBLE ASSETS

|                                       | Years Ended December 31, 2020    |                                     |                                  |                             |                         |
|---------------------------------------|----------------------------------|-------------------------------------|----------------------------------|-----------------------------|-------------------------|
|                                       | Balance,<br>Beginning of<br>Year | Additions                           | Disposals                        | Net Exchange<br>Differences | Balance, End of<br>Year |
| Cost                                  |                                  |                                     |                                  |                             |                         |
| Software<br>Others                    | \$ 108,386                       | \$ 43,201<br>\(\frac{1}{\\$} 43,201 | \$ 43,323<br>13,000<br>\$ 56,323 | \$ 358<br>\$ 358            | \$ 108,622<br>          |
| Accumulated amortization              |                                  |                                     |                                  |                             |                         |
| Software<br>Others                    | 62,447<br>11,917<br>74,364       | \$ 31,906<br>1,083<br>\$ 32,989     | \$ 43,323<br>13,000<br>\$ 56,323 | \$ 312<br><u>\$ 312</u>     | 51,342<br>              |
| Carrying amounts at December 31, 2020 | <u>\$ 47,022</u>                 |                                     |                                  |                             | <u>\$ 57,280</u>        |

|                                       |                                  | Years                           | Ended December 31             | 1, 2019                     |                            |
|---------------------------------------|----------------------------------|---------------------------------|-------------------------------|-----------------------------|----------------------------|
|                                       | Balance,<br>Beginning of<br>Year | Additions                       | Disposals                     | Net Exchange<br>Differences | Balance, End of<br>Year    |
| Cost                                  |                                  |                                 |                               |                             |                            |
| Software<br>Others                    | \$ 86,874<br>13,000<br>99,874    | \$ 35,514<br><u>\$ 35,514</u>   | \$ 13,261<br>\$ 13,261        | \$ (741)<br><u>\$ (741)</u> | \$ 108,386                 |
| Accumulated amortization              |                                  |                                 |                               |                             |                            |
| Software<br>Others                    | 47,068<br>7,583<br>54,651        | \$ 29,220<br>4,334<br>\$ 33,554 | \$ 13,261<br><u>\$ 13,261</u> | \$ (580)<br>                | 62,447<br>11,917<br>74,364 |
| Carrying amounts at December 31, 2019 | \$ 45,223                        |                                 |                               |                             | \$ 47,022                  |

Intangible assets are amortized on a straight-line basis over their estimated useful lives as follows:

Software 3 years Others 3 years

# 15. OTHER FINANCIAL ASSETS

|   | Decem                | December 31          |  |  |
|---|----------------------|----------------------|--|--|
|   | 2020                 | 2019                 |  |  |
| Non-current   |                      |                      |  |  |
| Restricted time deposits (Note 32)<br>Refundable deposits | \$ 157,665<br>13,887 | \$ 157,665<br>13,925 |  |  |
|   | <u>\$ 171,552</u>    | <u>\$ 171,590</u>    |  |  |

# 16. OTHER ASSETS

|                | December 31       |            |  |
|----------------|-------------------|------------|--|
|                | 2020 20           |            |  |
| <u>Current</u> |                   |            |  |
| Prepayments    | <u>\$ 118,182</u> | \$ 252,759 |  |

# 17. BORROWINGS

a. Short-term borrowings

|                           | December 31 |              |  |
|---------------------------|-------------|--------------|--|
|                           | 2020        | 2019         |  |
| Line of credit borrowings | <u>\$</u>   | \$ 1,550,000 |  |
| Interest rate             | -           | 0.98%-1.10%  |  |

# b. Long-term borrowings

|   |                                       | December 31          |               |  |
|---|---------------------------------------|----------------------|---------------|--|
|   |                                       | 2020                 | 2019          |  |
| Secured borrowings from finan                 | cial institutions                     | \$ 10,291,437        | \$ 10,237,531 |  |
| Unsecured borrowings from fin                 | ancial institutions                   | 5,880,000            | 2,840,000     |  |
|   |                                       | 16,171,437           | 13,077,531    |  |
| Less: Current portion                         |                                       | 5,412,007            | 3,267,200     |  |
| Less: Arrangement fee                         |                                       | 22,555               | 36,001        |  |
| Long-term borrowings                          |                                       | <u>\$ 10,736,875</u> | \$ 9,774,330  |  |
| Interest rate                                 |                                       | 0.93%-1.79%          | 1.23%-1.97%   |  |
|   |                                       |                      | nber 31       |  |
| <b>Borrowing Type</b>                         | Repayment Terms                       | 2020                 | 2019          |  |
| Secured bank borrowing denominated in NT\$    | From June 2019 to February 2024       | \$ 7,700,000         | \$ 4,600,000  |  |
| Secured syndicated loan denominated in NT\$   | From December 2017 to January 2021    | 2,175,812            | 4,818,662     |  |
| Unsecured bank borrowings                     | From March 2020 to March              | 1,200,000            | _             |  |
| denominated in NT\$                           | 2022                                  | 1,200,000            |               |  |
| Unsecured bank borrowing                      | From June 2019 to June 2021           | 960,000              | 1,200,000     |  |
| denominated in NT\$                           |                                       | 500.000              |               |  |
| Unsecured bank borrowings denominated in NT\$ | From December 2020 to December 2023   | 600,000              | -             |  |
| Unsecured bank borrowings                     | From August 2020 to February          | 600,000              | -             |  |
| denominated in NT\$ Unsecured bank borrowing  | 2023<br>From August 2020 to August    | 500,000              | -             |  |
| denominated in NT\$                           | 2023                                  |                      |               |  |
| Unsecured bank borrowings denominated in NT\$ | From August 2020 to August 2023       | 500,000              | -             |  |
| Unsecured bank borrowings denominated in NT\$ | From June 2020 to June 2023           | 500,000              | -             |  |
| Unsecured bank borrowings denominated in NT\$ | From April 2019 to April 2022         | 450,000              | 600,000       |  |
| Unsecured bank borrowings                     | From June 2020 to June 2023           | 300,000              | -             |  |
| denominated in NT\$                           | T 0 1 0015                            | 210 550              | 2.42.550      |  |
| Secured bank borrowing denominated in NT\$    | From September 2017 to September 2022 | 218,750              | 343,750       |  |
| Secured bank borrowing                        | From September 2018 to                | 196,875              | 459,375       |  |
| denominated in NT\$                           | September 2021                        | 1.50.000             | 200.000       |  |
| Unsecured bank borrowings denominated in NT\$ | From July 2019 to July 2022           | 150,000              | 300,000       |  |
| Unsecured bank borrowings                     | From September 2018 to                | 120,000              | 240,000       |  |
| denominated in NT\$                           | September 2021                        |                      |               |  |
| Unsecured bank borrowings denominated in NT\$ | Pay off in December 2020              | -                    | 300,000       |  |
| Unsecured bank borrowings denominated in NT\$ | Pay off in September 2020             | -                    | 200,000       |  |
| ασποιπιαισα πετιτή                            |                                       |                      | (Continued)   |  |

|  |                 | December 31 |               |    |                         |
|--|-----------------|-------------|---------------|----|-------------------------|
| <b>Borrowing Type</b>                      | Repayment Terms | 2020        |               |    | 2019                    |
| Secured bank borrowing denominated in NT\$ | · · ·           |             | -             | \$ | 15,744                  |
| Less: Current portion                      |                 | 5,4         | 12,007        | 3  | 3,267,200               |
| Less: Arrangement fee                      |                 |             | 22,555        |    | 36,001                  |
| Total long-term borrowings                 |                 | \$10,7      | <u>36,875</u> |    | 0,774,330<br>Concluded) |

To repay the vested liabilities, purchase equipment and machinery and increase operating funds, the Group signed a 5-year syndicated loan agreement with 7 financial institutions in November 2017 with a total amount of NT\$7.7 billion. In June 2020, the Group canceled the loan facility of NT\$1.1 billion. In January 2021, the Group repaid all of the loan in advance.

To purchase equipment or machinery, the Group has entered into a 5-year syndicated loan agreement with 9 financial institutions including the Taiwan Cooperative Bank in January 2019 with the total amount of NT\$8 billion. The Group provided notes used as refundable guarantees for syndicated loan mentioned above that will be cancelled upon termination of the guarantee.

In addition, the Group's floating borrowing rate on the above borrowing is reset every one to three months.

The loan agreement requires the maintenance of a current ratio, debt ratio, and interest coverage ratio based on the Group's semi-annual and annual consolidated financial statements. For the year ended December 31, 2020 and 2019, the Group had met the financial ratio covenants.

The details of assets pledged as collateral for long-term loans are set in Note 32.

# 18. NOTES PAYABLE AND TRADE PAYABLES

|                | Decem        | December 31  |  |
|----------------|--------------|--------------|--|
|                | 2020         | 2019         |  |
| Trade payables | \$ 2,940,531 | \$ 2,141,510 |  |

The Group has financial risk management policies in place to ensure that all payables are paid within the pre-agreed upon credit terms.

#### 19. OTHER PAYABLES

|                                      | December 31 |           | 1  |           |
|--------------------------------------|-------------|-----------|----|-----------|
|                                      |             | 2020      |    | 2019      |
| Payables for bonuses                 | \$          | 260,131   | \$ | 253,924   |
| Payables for maintenance and repairs |             | 192,006   |    | 219,965   |
| Payables for donations               |             | 177,957   |    | 98,144    |
| Payables for patents                 |             | 129,333   |    | 165,357   |
| Payables for spare parts             |             | 77,155    |    | 62,763    |
| Others                               |             | 645,212   |    | 696,234   |
|                                      | <u>\$</u>   | 1,481,794 | \$ | 1,496,387 |

## 20. OTHER LIABILITIES

|   | December 31  |   |
|---|--|---|
|   | 2020   | 2019  |
| Current   |  |   |
| Refund liabilities Guarantee deposits Receipts under custody Others | \$ 128,992<br>160,721<br>35,032<br>7,525<br>\$ 332,270 | \$ 190,061<br>31,999<br>8,380<br>\$ 230,440 |
| Non-current   |  |   |
| Guarantee deposits Others   | \$ 19,409<br><u>9</u>                                  | \$ 10,271<br><u>9</u>                       |
|   | <u>\$ 19,418</u>                                       | <u>\$ 10,280</u>                            |

#### 21. PROVISIONS

|                       | December 31 |           |
|-----------------------|-------------|-----------|
|                       | 2020        | 2019      |
| Current               |             |           |
| Employee benefits (a) | \$ 22,687   | \$ 20,460 |

a. The provision for employee benefits represents vested long service leave entitlements accrued.

#### 22. RETIREMENT BENEFIT PLANS

## a. Defined contribution plans

The Company and the subsidiary Mxtran adopted a pension plan under the Labor Pension Act (LPA), which is a state-managed defined contribution plan. Under on the LPA, the Group makes monthly contributions to employees' individual pension accounts at 6% of monthly salaries and wages.

The Group's subsidiaries in Hong Kong, the USA, Europe, Japan, Korea, Singapore and China 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 plans

The defined benefit plan adopted by the Company in accordance with the Labor Standards Act 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 Company contributes amounts equal to 2% 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. Before

the end of each year, the Group assesses the balance in the pension fund. If the amount of the balance in the pension fund is inadequate to pay retirement benefits for employees who conform to retirement requirements in the next year, the Group is required to fund the difference in one appropriation that should be made before the end of March of the next year. 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 in the consolidated balance sheets in respect of the Group's defined benefit plans were as follows:

|   |   | Decem                                     | ber 31  |
|---|---|---|---|
|   |   | 2020                                      | 2019  |
| Present value of defined benefit obligation<br>Fair value of plan assets  |   | \$ 1,898,790<br>(942,837)                 | \$ 1,903,616<br>(791,902)                         |
| Net defined benefit liability   |   | <u>\$ 955,953</u>                         | <u>\$ 1,111,714</u>                               |
| Movements in net defined benefit liability were   | e as follows:   |   |   |
|   | Present Value<br>of Defined<br>Benefit<br>Obligation  | Fair Value of the Plan Assets             | Net Defined<br>Benefit<br>Liabilities<br>(Assets) |
| Balance at January 1, 2019  | \$ 1,890,484  | \$ 710,318                                | \$ 1,180,166                                      |
| Service cost Current service cost Net interest expense Return on plan assets Recognized in profit or loss   | 5,296<br>23,330<br>—————————————————————————————————— | 8,772<br>8,772                            | 5,296<br>23,330<br>(8,772)<br>19,854              |
| Remeasurement Return on plan assets Actuarial loss - change in financial  | -   | 13,955                                    | (13,955)  |
| assumptions Recognized in other comprehensive income Contributions from the employer Benefits paid Balance at December 31, 2019 Service cost          | 91,727<br>91,727<br>(107,221)<br>1,903,616            | 13,955<br>166,078<br>(107,221)<br>791,902 | 91,727<br>77,772<br>(166,078)<br>-<br>1,111,714   |
| Current service cost Net interest expense Return on plan assets Recognized in profit or loss  | 5,015<br>15,013<br>                                   | 6,241<br>6,241                            | 5,015<br>15,013<br>(6,241)<br>13,787              |
| Remeasurement Return on plan assets Actuarial loss - experience adjustments Actuarial loss - change in financial                                      | 26,798  | 26,677                                    | (26,677)<br>26,798                                |
| assumptions Actuarial loss - change in demographic assumptions Recognized in other comprehensive income Contributions from the employer Benefits paid | 39,079  (5,967)  59,910  (84,764)                     | 26,677<br>202,781<br>(84,764)             | 39,079<br>(5,967)<br>33,233<br>(202,781)          |
| Balance at December 31, 2020  | \$ 1,898,790  | \$ 942,837                                | \$ 955,953  |

An analysis by function of the amounts recognized in profit or loss in respect of the defined benefit plans is as follows:

|  | For the Year Ended December 31    |                                      |
|--|-----------------------------------|--------------------------------------|
|  | 2020                              | 2019                                 |
| Operating costs Selling and marketing expenses General and administration expenses Research and development expenses | \$ 7,381<br>797<br>2,478<br>3,131 | \$ 10,688<br>1,051<br>3,630<br>4,485 |
| • •  | <u>\$ 13,787</u>                  | \$ 19,854                            |

Through the defined benefit plans under the Labor Standards Act, 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/corporate 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 salary 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 |       |
|---|-------------|-------|
|   | 2020        | 2019  |
| Discount rate                           | 0.50%       | 0.80% |
| Expected rate of salary increase        | 3.00%       | 3.00% |
| Expected return on plan assets increase | 0.50%       | 0.80% |

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:

|                                  | For the Year Ended December 31 |              |
|----------------------------------|--------------------------------|--------------|
|                                  | 2020                           | 2019         |
| Discount rate                    |                                |              |
| 0.50% increase                   | \$ (67,172)                    | \$ (101,540) |
| 0.50% decrease                   | \$ 71,260                      | \$ 109,956   |
| Expected rate of salary increase |                                |              |
| 0.50% increase                   | \$ 97,993                      | \$ 126,190   |
| 0.50% decrease                   | \$ (92,509)                    | \$ (117,415) |

The sensitivity analysis presented above may not be representative of the actual change in the present value of the defined benefit obligation as it is unlikely that the change in assumptions would occur in isolation of one another as some of the assumptions may be correlated.

|  | December 31      |            |
|--|------------------|------------|
|  | 2020             | 2019       |
| The expected contributions to the plan for the next year | <u>\$ 56,154</u> | \$ 30,384  |
| The average duration of the defined benefit obligation   | 7.3 years        | 11.1 years |

The Group maintains a separate executive pension plan and the net periodic pension costs were NT\$6,835 thousand and NT\$8,651 thousand for the years ended December 31, 2020 and 2019, respectively.

Movements in net defined benefit liability were as follows:

|   | Present Value<br>of Defined<br>Benefit<br>Obligation |
|---|--|
| Balance at January 1, 2019                        | \$ 459,987   |
| Service cost                                      |  |
| Current service cost                              | 2,928  |
| Net interest expense                              | 5,723  |
| Recognized in profit or loss                      | 8,651  |
| Remeasurement                                     |  |
| Actuarial loss - experience adjustments           | 21,594   |
| Actuarial loss - changes in financial assumptions | 8,629  |
| Recognized in other comprehensive income          | 30,223   |
| Benefits paid                                     |  |
| Balance at December 31, 2019                      | 498,861  |
| Service cost                                      |  |
| Current service cost                              | 2,860  |
| Net interest expense                              | 3,975  |
| Recognized in profit or loss                      | 6,835  |
| Remeasurement                                     |  |
| Actuarial loss (gain) - experience adjustments    | (34,790)   |
| Actuarial loss - changes in financial assumptions | 4,294  |
| Recognized in other comprehensive income          | <u>(30,496</u> )                                     |
| Benefits paid                                     |  |
| Balance at December 31, 2020                      | <u>\$ 475,200</u>                                    |

An analysis by function of the amounts recognized in profit or loss in respect of the defined benefit plans is as follows:

|                                     | For the Year Ended December 31 |          |
|-------------------------------------|--------------------------------|----------|
|                                     | 2020                           | 2019     |
| General and administration expenses | <u>\$ 6,835</u>                | \$ 8,651 |

The actuarial valuations of the present value of the defined benefit obligation of executive pension plan were carried out by qualified actuaries. The significant assumptions used for the purposes of the actuarial valuations were as follows:

|   | December 31 |       |
|---|-------------|-------|
|   | 2020        | 2019  |
| Discount rate                           | 0.50%       | 0.80% |
| Expected rate of salary increase        | -           | -     |
| Expected return on plan assets increase | 0.50%       | 0.80% |

# 23. EQUITY

# a. Share capital

# Ordinary shares

|   | December 31   |               |  |
|---|---------------|---------------|--|
|   | 2020          | 2019          |  |
| Number of shares authorized (in thousands)            | 6,550,000     | 6,550,000     |  |
| Shares authorized                                     | \$ 65,500,000 | 65,500,000    |  |
| Number of shares issued and fully paid (in thousands) | 1,856,302     | 1,839,927     |  |
| Shares issued   | \$ 18,563,017 | \$ 18,399,271 |  |

Fully paid ordinary shares, which have a par value of \$10, carry one vote per share and carry a right to dividends.

A total of 864,704 thousand shares and 650,000 thousand shares of the Company's authorized shares were reserved for the issuance of convertible bonds and employee share options.

# b. Capital surplus

|   | December 31                       |                           |  |
|---|-----------------------------------|---------------------------|--|
|   | 2020                              | 2019                      |  |
| May be used to offset a deficit, distributed as cash dividends, or transferred to share capital (1) |                                   |                           |  |
| Donations Treasury share transactions   | \$ 37<br>33,096                   | \$ 37<br>30,769           |  |
|   | \$ 33,133                         | \$ 30,806                 |  |
| May be used to offset a deficit only  |                                   |                           |  |
| Issuance of ordinary shares<br>Changes in percentage of ownership interests in subsidiaries (2)     | \$ 145,378<br>4,609<br>\$ 149,987 | \$ -<br>4,609<br>\$ 4,609 |  |
| May not be used for any purpose   | <u>\$ 149,967</u>                 | <u>\$ 4,009</u>           |  |
|   |                                   |                           |  |
| Employee restricted shares  | <u>\$ 201,652</u>                 | <u>\$ 508,505</u>         |  |

- 1) Such capital surplus may be used to offset a deficit; in addition, when the Company has no deficit, such capital surplus may be distributed as cash dividends or transferred to share capital (limited to a certain percentage of the Company's paid-in capital and once a year).
- 2) Such capital surplus arises from changes in capital surplus of subsidiaries accounted for by using the equity method.

# c. Retained earnings and dividend policy

The Company's Articles of Incorporation, state that, where the Company made profit in a fiscal year, the profit shall be first utilized for paying taxes, offsetting losses of previous years, setting aside a legal reserve 10% of the remaining profit (until the amount of the legal reserve equals the amount of the Company's paid-in capital), 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 Company's board of directors as the basis for proposing a distribution plan, which should be resolved in the shareholders' meeting for the distribution of dividends and bonuses to shareholders. The Company state the policies on the distribution of employees' compensation and remuneration of directors state by the Company's Articles of Incorporation refer to "Employees' compensation and remuneration of directors" in Note 25 (g).

The Company is classified under the capital intensive industry. In accordance with the long-term financial program of the Company, the above shareholders' dividends can be retained as undistributed earnings, and then be distributed in the future, as determined by the shareholders at the Annual General Meeting.

Distributions shall be prioritized to take the form of cash dividends. Nevertheless, it still depends on the Company's financial, sales or operating condition. The Company's Articles of Incorporation provide that no more than 50% of the current year's total amount of distributable earnings can be distributed in the form of share dividends.

The appropriation of earnings to a legal reserve shall be made until the legal reserve equals the Company's paid-in capital. The legal reserve may be used to offset any deficit. If the Company has no deficit and the legal reserve has exceeded 25% of the Company's paid-in capital, the excess may be transferred to capital or distributed in cash.

Items referred under Rule No. 1010047490 issued by the FSC and in 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 Company.

The appropriation of earnings for 2019 and 2018, which had been proposed by the Company's general meeting of shareholders on May 27, 2020 and June 18, 2019, respectively. The appropriation and dividends per share were as follows:

|                          | For the Year Ended December 31 |              |  |
|--------------------------|--------------------------------|--------------|--|
|                          | 2019                           | 2018         |  |
| Legal reserve            | \$ 301,196                     | \$ 899,301   |  |
| Special reserve          | \$ (385,857)                   | \$ 932,777   |  |
| Cash dividends           | \$ 2,207,891                   | \$ 2,208,200 |  |
| Cash dividends per share | \$ 1.2                         | \$ 1.2       |  |

# d. Special reserve

|   | For the Year Ended December 31 |                   |  |
|---|--------------------------------|-------------------|--|
|   | 2020                           | 2019              |  |
| Beginning at January 1 Appropriations in respect of                     | \$ 1,007,052                   | \$ 74,275         |  |
| Treasury shares (reversal) Reversal of the debits to other equity items | (36,882)<br>(348,975)          | 48,882<br>883,895 |  |
| Balance at December 31  | <u>\$ 621,195</u>              | \$ 1,007,052      |  |

According to the shareholding ratio, the special reserve is calculated based on the difference between the market value of the parent company's stock holdings and the book value, and the special reserve will be partially reversed on market price.

# e. Other equity items

# 1) Exchange differences on translating foreign operations

|  | For the Year Ended December 31 |                                 |  |
|--|--------------------------------|---------------------------------|--|
|  | 2020                           | 2019                            |  |
| Balance at January 1<br>Exchange differences on translating foreign operations | \$ (235,880)<br>(150,210)      | \$ (137,132)<br><u>(98,748)</u> |  |
| Balance at December 31   | <u>\$ (386,090</u> )           | <u>\$ (235,880</u> )            |  |

# 2) Unrealized valuation gain on/(loss) on financial assets at FVTOCI

|  | For the Year Ended December 31 |                      |  |
|--|--------------------------------|----------------------|--|
|  | 2020                           | 2019                 |  |
| Balance at January 1   | \$ (299,040)                   | \$ (746,762)         |  |
| Recognized for the year Unrealized gain/(loss) - equity instrument                                       | 440,966                        | 447,722              |  |
| Other comprehensive income recognized for the year   | 141,926                        | (299,040)            |  |
| Cumulative unrealized gain/(loss) of equity instruments transferred to retained earnings due to disposal | 29,100                         | <del>_</del>         |  |
| Balance at December 31   | <u>\$ 171,026</u>              | <u>\$ (299,040</u> ) |  |

# 3) Employee unearned benefit

In the meeting of shareholders on June 16, 2016 and June 18, 2019, the shareholders approved a restricted share plan for employees. Refer to Note 28 for the information of restricted shares issued.

|   | For the Year Ended December 31 |                     |  |
|---|--------------------------------|---------------------|--|
|   | 2020                           | 2019                |  |
| Balance at January 1                    | \$ (443,066)                   | \$ (19,978)         |  |
| Grant by this year                      | -                              | (508,772)           |  |
| Share-based payment expenses recognized | 293,662                        | 84,407              |  |
| Adjustments for change of turnover rate | (1,151)                        | 1,277               |  |
| Balance at December 31                  | <u>\$ (150,555</u> )           | <u>\$ (443,066)</u> |  |

# f. Non-controlling interests

|  | For the Year Ended December 31 |                |    |               |
|--|--------------------------------|----------------|----|---------------|
|  |                                | 2020           | 2  | 019           |
| Balance at January 1 Share of (loss) gain for the year Other comprehensive income (loss) for the year Exchange difference on translating the financial statements of | \$                             | 1,276<br>(471) | \$ | 334<br>941    |
| foreign operations Invalidation of employee share option   |                                | (5)            |    | <u>-</u><br>1 |
| Balance at December 31   | \$                             | 800            | \$ | 1,276         |

# g. Treasury shares

The Company's shares held by its subsidiaries at December 31, 2020 and 2019 were as follows:

|            | Name of Subsidiary | Number of<br>Shares Held<br>(In Thousands) | Carrying<br>Amount | Market Price |
|------------|--------------------|--|--------------------|--------------|
| December 3 | 1, 2020            |  |                    |              |
| Hui Ying   |                    | 1,957                                      | \$ 159,061         | \$ 82,765    |
| December 3 | 1, 2019            |  |                    |              |
| Hui Ying   |                    | 1,957                                      | \$ 159,061         | \$ 72,786    |

The Company's shares held by subsidiaries are regarded as treasury shares; shareholder's rights are retained, except for the rights to participate in any share issuances for cash and to vote.

# 24. REVENUE

a. Segmentation of revenue from contracts with customers

|              | For the Year Ended December 31 |               |
|--------------|--------------------------------|---------------|
|              | 2020                           | 2019          |
| Product type |                                |               |
|              |                                |               |
| Flash        | \$ 20,953,865                  | \$ 19,481,027 |
| ROM          | 16,022,159                     | 13,290,888    |
| Foundry      | 2,794,731                      | 2,196,564     |
| Others       | 30,192                         | 26,932        |
|              | <u>\$ 39,800,947</u>           | \$ 34,995,411 |

# b. Contract balances

|  | For the Year Ended December 31 |           |  |
|--|--------------------------------|-----------|--|
|  | 2020                           | 2019      |  |
| Contract liabilities (classified as current liabilities) | <u>\$ 92,195</u>               | \$ 98,557 |  |

The changes in the contract liability balances primarily result from the timing difference between the satisfaction of the performance obligations and the customer's payment.

The Group recognized revenue from the beginning balance of contract liabilities as follows:

|  | For the Year Ended December 31 |                  |  |
|--|--------------------------------|------------------|--|
|  | 2020                           | 2019             |  |
| From the beginning balance of contract liabilities |                                |                  |  |
| Sale of goods                                      | <u>\$ 97,447</u>               | <u>\$ 14,544</u> |  |

# 25. NET PROFIT (LOSS) FROM CONTINUING OPERATIONS

## a. Interest income

|    |                           | For the Year Ended December 31 |                      |
|----|---------------------------|--------------------------------|----------------------|
|    |                           | 2020                           | 2019                 |
|    | Bank deposits             | <u>\$ 30,858</u>               | <u>\$ 38,387</u>     |
| b. | Other income              |                                |                      |
|    |                           | For the Year End               | ded December 31      |
|    |                           | 2020                           | 2019                 |
|    | Dividend income<br>Others | \$ 101,174<br>                 | \$ 109,016<br>43,191 |
|    |                           | <u>\$ 130,386</u>              | <u>\$ 152,207</u>    |

# c. Other gains and losses

|   | For the Year Ended December 31 |                                  |  |
|---|--------------------------------|----------------------------------|--|
|   | 2020                           | 2019                             |  |
| Net foreign exchange gains (losses)<br>Gains on disposal of investments<br>Other losses | \$ 95,298<br>-<br>(35,017)     | \$ (60,722)<br>7,404<br>(12,884) |  |
|   | <u>\$ 60,281</u>               | <u>\$ (66,202)</u>               |  |

# d. Finance costs

e.

f.

|   | For the Year End    | ded December 31 2019 |
|---|---------------------|----------------------|
| Interest on loans   | \$ 248,416          | \$ 215,886           |
| Interest on lease liabilities                                 | 20,432              | 18,972               |
| Less: Amounts included in the cost of qualifying assets       | (21,892)            | (37,915)             |
|   | <u>\$ 246,956</u>   | \$ 196,943           |
| Information about capitalized interest was as follows:        |                     |                      |
|   | For the Year En     | ded December 31      |
|   | 2020                | 2019                 |
| Capitalized interest  | \$ 21,892           | \$ 37,915            |
| Capitalization rate   | 1.79%               | 1.67%                |
| Depreciation and amortization                                 |                     |                      |
|   | For the Veer En     | ded December 31      |
|   | 2020                | 2019                 |
|   | _0_0                | 2019                 |
| An analysis of depreciation by function                       |                     |                      |
| Operating costs   | \$ 3,255,402        | \$ 2,295,217         |
| Operating expenses  | 457,936             | 402,250              |
|   | \$ 3,713,338        | <u>\$ 2,697,467</u>  |
| An analysis of amortization by function                       |                     |                      |
| Operating costs   | \$ 14,039           | \$ 10,448            |
| Operating expenses  | 18,950              | 23,106               |
|   | \$ 32,989           | <u>\$ 33,554</u>     |
| Employee benefits expense                                     |                     |                      |
|   | For the Vear Fn     | ded December 31      |
|   | 2020                | 2019                 |
| D (1 (7 (N) (22))   |                     |                      |
| Post-employment benefits (Note 22) Defined contribution plans | \$ 205,546          | \$ 212,386           |
| Defined benefit plans   | 20,622              | 28,505               |
| Defined contribution  | 226,168             | 240,891              |
| Share-based payments  |                     |                      |
| Equity-settled  | 293,662             | 84,407               |
| Other employee benefits                                       | 6,973,495           | 6,313,313            |
| Total employee benefits expense                               | \$ 7,493,325        | \$ 6,638,611         |
| An analysis of employee benefits expense by function          |                     |                      |
| Operating costs   | \$ 3,296,709        | \$ 3,005,669         |
| Operating expenses  | 4,196,616           | 3,632,942            |
|   | <u>\$ 7,493,325</u> | \$ 6,638,611         |

## g. Employees' compensation and remuneration of directors

In compliance with the Articles of Incorporation, the Company accrued employees' compensation and remuneration of directors at the rates of 15% and no higher than 2%, respectively, of net profit before income tax, employees' compensation, and remuneration of directors. For the years ended December 31, 2020 and 2019, the estimated employees' compensation and the remuneration of directors resolved by the board of directors on February 26, 2021 and February 17, 2020, respectively, were as follows:

#### Amount

|                           | For the Year Ended December 31 |            |  |
|---------------------------|--------------------------------|------------|--|
|                           | 2020                           | 2019       |  |
| Employees' compensation   | \$ 1,050,180                   | \$ 544,330 |  |
| Remuneration of directors | \$ 140,024                     | \$ 72,577  |  |

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 is no difference between the actual amount of employees' compensation and remuneration of directors paid and the amount recognized in the consolidated financial statements for the years ended December 31, 2019 and 2018.

Information on the employees' compensation and remuneration of directors resolved by the Company's board of directors in 2020 and 2019 is available at the Market Observation Post System website of the Taiwan Stock Exchange.

### 26. INCOME TAXES RELATING TO CONTINUING OPERATIONS

a. Major components of income tax expense recognized in profit or loss

|   | For the Year Ended December 31 |               |
|---|--------------------------------|---------------|
|   | 2020                           | 2019          |
| Current tax                                     |                                |               |
| In respect of the current year                  | \$ 65,707                      | \$ 16,903     |
| Overseas income tax                             | 4,274                          | 1,852         |
| Adjustments for prior period                    | (1,619)                        | (82,065)      |
| Deferred tax                                    | , , , ,                        | , , ,         |
| In respect of the current year                  | 447,072                        | <u>76,735</u> |
| Income tax expense recognized in profit or loss | <u>\$ 515,434</u>              | \$ 13,425     |

A reconciliation of accounting loss and income tax expenses is as follows:

|   | For the Year Ended December 31 |                  |
|---|--------------------------------|------------------|
|   | 2020                           | 2019             |
| Income before tax from continuing operations          | \$ 5,841,046                   | \$ 3,026,326     |
| Income tax expense calculated at the statutory rate   | \$ 1,189,038                   | \$ 625,635       |
| Non-deductible expenses in determining taxable income | 7,083                          | 6,798            |
| Non-taxable income                                    | (18,946)                       | (22,390)         |
| Deductible temporary differences                      | (1,085,296)                    | (590,616)        |
| Unrecognized investment credits                       | (25,666)                       | _                |
| Recognized loss carryforwards                         | 446,566                        | 74,211           |
| Overseas income tax                                   | 4,274                          | 1,852            |
| Adjustments for prior year                            | (1,619)                        | (82,065)         |
| Income tax expense recognized in profit or loss       | \$ 515,434                     | <u>\$ 13,425</u> |

In July 2019, the president of the ROC announced the amendments to the Statute for Industrial Innovation, which stipulate that the amounts of unappropriated earnings in 2018 and thereafter that are reinvested in the construction or purchase of certain assets or technologies are allowed as deduction when computing the income tax on unappropriated earnings. When calculating the tax on unappropriated earnings, the Group only deducts the amount of the unappropriated earnings that has been reinvested in capital expenditure.

## b. Current tax assets and liabilities

|  | December 31      |                  |  |
|--|------------------|------------------|--|
|  | 2020             | 2019             |  |
| Current tax assets Tax refund receivable   | \$ 3,818         | <u>\$ 2,978</u>  |  |
| Current tax liabilities Income tax payable | <u>\$ 63,359</u> | <u>\$ 11,231</u> |  |

#### c. Deferred tax assets and liabilities

The Group offset certain deferred tax assets and deferred tax liabilities which met the offset criteria.

The movements of deferred tax assets and deferred tax liabilities were as follows:

## For the year ended December 31, 2020

|  | Opening<br>Balance    | Recognized in Profit or Loss | Closing Balance     |
|--|-----------------------|------------------------------|---------------------|
| Deferred tax assets  |                       |                              |                     |
| Temporary differences Unrealized expense and losses Loss carryforwards | \$ 2,490<br>1,104,876 | \$ (506)<br>(446,566)        | \$ 1,984<br>658,310 |
|  | \$ 1,107,366          | <u>\$ (447,072)</u>          | \$ 660,294          |

# For the year ended December 31, 2019

|  | Opening<br>Balance  | Recognized in Profit or Loss | Closing Balance |
|--|---------------------|------------------------------|-----------------|
| Deferred tax assets  |                     |                              |                 |
| Temporary differences Unrealized expense and losses Loss carryforwards | \$ 5,017<br>        | \$ (2,527)<br>(74,208)       | \$ 2,490<br>    |
|  | <u>\$ 1,184,101</u> | <u>\$ (76,735)</u>           | \$ 1,107,366    |

d. Deductible temporary differences, unused loss carryforwards and unused investment credits for which no deferred assets have been recognized in the consolidated balance sheets

|  | December 31 |                   | 1  |            |
|--|-------------|-------------------|----|------------|
|  |             | 2020              |    | 2019       |
| Loss carryforwards                           |             |                   |    |            |
| Expire in 2020                               | \$          | -                 | \$ | 82,441     |
| Expire in 2021                               |             | 131,050           |    | 131,050    |
| Expire in 2022                               |             | 184,390           |    | 184,390    |
| Expire in 2023                               |             | 97,389            |    | 97,389     |
| Expire in 2024                               |             | 147,183           |    | 150,479    |
| Expire in 2025                               |             | 67,634            |    | 67,634     |
| Expire in 2026                               |             | 28,806            |    | 1,817,823  |
| Expire in 2027                               |             | 66,966            |    | 66,966     |
| Expire in 2028                               |             | 31,408            |    | 31,408     |
| Expire in 2029                               |             | 17                |    | 17         |
| Expire in 2030                               |             | 8,677             |    |            |
| Investment credits                           | \$          | 763,520           | \$ | 2,629,597  |
| Research and development expenditures        | \$          | 200,880           | \$ | 200,028    |
| Purchase of smart machines expenditures      | Ψ           | 23,538            | Ψ  | -          |
| r dividuo of biliary indomines experiatedres |             | 23,330            |    |            |
|  | <u>\$</u>   | 224,418           | \$ | 200,028    |
| Deductible temporary differences             | <u>\$ 2</u> | <u>25,574,391</u> | \$ | 26,394,004 |

The unrecognized investment credits will expire in 2021.

# e. Information about unused investment credits and unused loss carry-forwards

As of December 31, 2020, investment credits comprised of:

| Law and Statutes                  | Tax Credit Source                       | C  | emaining<br>reditable<br>Amount | Expiry<br>Year |
|-----------------------------------|---|----|---------------------------------|----------------|
| Statute for Industrial Innovation | Research and development expenditures   | \$ | 180,327                         | 2020           |
| Statute for Industrial Innovation | Research and development expenditures   |    | 200,880                         | 2021           |
| Statute for Industrial Innovation | Purchase of smart machines expenditures |    | 23,538                          | 2021           |
|                                   |   | \$ | 404,745                         |                |

Loss carryforwards as of December 31, 2020 comprised of:

| <b>Unused Tax Amount</b> | <b>Expiry Year</b> |
|--------------------------|--------------------|
| \$ 26,210                | 2021               |
| 36,878                   | 2022               |
| 19,478                   | 2023               |
| 29,437                   | 2024               |
| 97,138                   | 2025               |
| 580,460                  | 2026               |
| 13,393                   | 2027               |
| 6,282                    | 2028               |
| 3                        | 2029               |
| 1,735                    | 2030               |
| <u>\$ 811,014</u>        |                    |

# f. Income tax assessments

The Company's and its subsidiaries' tax returns through 2018 have been assessed by the tax authorities.

# 27. EARNINGS PER SHARE

**Unit: NT\$ Per Share** 

|  | For the Year End   | For the Year Ended December 31 |  |  |
|--|--------------------|--------------------------------|--|--|
|  | 2020               | 2019                           |  |  |
| Basic earnings per share<br>Diluted earnings per share | \$ 2.90<br>\$ 2.84 | \$ 1.64<br>\$ 1.61             |  |  |

The income and weighted average number of ordinary shares outstanding in the computation of earnings per share from continuing operations were as follows:

#### Net Income for the Year

|   | For the Year Ended December 31 |              |  |
|---|--------------------------------|--------------|--|
|   | 2020                           | 2019         |  |
| Income for the year attributable to owners of the Company | \$ 5,326,083                   | \$ 3,011,960 |  |

Weighted average number of ordinary shares outstanding (in thousand shares):

|   | For the Year Ended December 31 |           |  |
|---|--------------------------------|-----------|--|
|   | 2020                           | 2019      |  |
| Weighted average number of ordinary shares in computation of basic                      |                                |           |  |
| earnings per share  | 1,839,322                      | 1,831,825 |  |
| Effect of potentially dilutive ordinary shares:   |                                |           |  |
| Restricted shares to employees  | 10,105                         | 6,243     |  |
| Employees' compensation or bonus issue to employees                                     | 27,631                         | 29,428    |  |
| Weighted average number of ordinary shares in computation of diluted earnings per share | 1,877,058                      | 1,867,496 |  |

Since the Group offered to settle compensation or bonuses paid to employees in cash or shares, the Group 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.

# 28. SHARE-BASED PAYMENT ARRANGEMENTS

a. Restricted share plan for employees

Information on share plan for employees were as follows:

| Approved<br>Date | Grant Shares<br>(Thousand) | Board of<br>Directors<br>Approved<br>Grant Shares<br>(Thousand) | Grant Date | Issued Date | Issued<br>Shares<br>(Thousand) | Fair Value |
|------------------|----------------------------|---|------------|-------------|--------------------------------|------------|
| 2016/06/16       | 123,535                    | 58,971  | 2016/10/25 | 2017/01/03  | 57,476                         | \$ 4.73    |
| 2019/06/18       | 35,294                     | 16,815  | 2019/10/21 | 2020/06/16  | 16,400                         | 32.55      |

To meet the vesting conditions, an employee has to meet performance and other conditions over the vesting period listed as follows:

- 1) If an employee remains employed by the Company for one year after the grant date; and has a current year's performance rating of "successful" (or higher) /A0 or A1, 40% of the restricted shares will be vested;
- 2) If an employee remains employed by the Company for two years after the grant date; and has a current year's performance rating of "successful" (or higher) /A0 or A1, 30% of the restricted shares will be vested;

3) If an employee remains employed by the Company for three years after grant date; and has a current year's performance rating of "successful" (or higher) /A0 or A1, 30% of the restricted shares will be vested.

In addition to the vesting conditions, the limitations are as follows:

- 1) Employees, except for inheritance, should not sell, transfer, pledge, donate or in any other way dispose of the shares.
- 2) The shares should be held in stock trust.
- 3) Except for the above two paragraphs, the other rights of the restricted share plan for employees, which include, but are not limited to, dividends, bonuses, the distribution rights of the legal reserve and capital surplus, share options of cash capital voting rights of shareholders, etc., are the same as the Group's issued ordinary shares.
- 4) The dividends of restricted share plan for employees are not restricted by existing conditions.
- 5) When a new share is returned in cash due to the Company's capital reduction, the refund of the vested capital loss shall be under custodian trust. In accordance with the issuance method, such capital and shares shall be granted if the vesting conditions for new restricted employee shares are met. The vested shares are granted to employees without interests; if the vested conditions are not met, such cash will be recovered by the Company (applicable to the shareholders' resolution of restricted share plan in the 2019 shareholders' meeting).

When employees do not reach the vesting conditions of restricted share plan for employees during the year, the Company will recover and cancel the shares.

Information on restricted share plan for employees was as follows:

|                        | Number of Shares (In Thousands) For the Year Ended December 31 |           |  |
|------------------------|--|-----------|--|
|                        |  |           |  |
|                        | 2020   | 2019      |  |
| Balance at January 1   | 23   | 7,787     |  |
| Issued                 | 16,400   | -         |  |
| Vested                 | (6,465)  | (7,506)   |  |
| Forfeited (Note)       | (122)  | (258)     |  |
| Balance at December 31 | 9,836  | <u>23</u> |  |

Note: The forfeited shares for the years ended December 31, 2020 include 115 thousand shares which will be cancelled and 7 thousand shares which were already cancelled, and the forfeited shares for the year ended December 31, 2019 include 18 thousand shares which will be cancelled and 240 thousand shares which were already cancelled.

For the years ended December 31, 2020 and 2019, the compensation costs recognized were NT\$293,662 thousand and NT\$84,407 thousand, respectively.

#### 29. CAPITAL MANAGEMENT

The Group manages its capital to ensure that the Group will be able to operate under the premises of going concerns and growth while maximizing the return to shareholders through the optimization of the debt and equity balance.

The Group's strategy for managing the capital structure is to lay out the plan of product development and expand the market share considering the growth and the magnitude of industry and further developing an integral plan founded on the required capacity, capital outlay, and magnitude of assets in long-term development. Ultimately, considering the risk factors such as the fluctuation of the industry cycle and the life cycle of products, the Group determines the optimal capital structure by estimating the profitability of products, operating profit ratio, and cash flow based on the competitiveness of products.

The management of the Group periodically examines the capital structure and contemplates on the potential costs and risks involved while exerting different financial tools. In general, the Group implements prudent strategy of risk management.

#### 30. FINANCIAL INSTRUMENTS

a. Fair value of financial instruments not measured at fair value

The management considers that the carrying amounts of financial assets and financial liabilities recognized in the consolidated financial statements approximate their fair values or their fair values cannot be reliably measured.

- b. Fair value of financial instruments measured at fair value on a recurring basis
  - 1) Fair value hierarchy

#### December 31, 2020

|   | Level 1             | Level 2     | Level 3      | Total        |
|---|---------------------|-------------|--------------|--------------|
| Financial assets at FVTOCI<br>Equity securities         |                     |             |              |              |
| Securities listed in the ROC Securities listed in other | \$ 1,461,804        | \$ -        | \$ -         | \$ 1,461,804 |
| countries   | 453,571             | -           | <del>-</del> | 453,571      |
| Securities unlisted                                     |                     |             | 420,699      | 420,699      |
|   | <u>\$ 1,915,375</u> | <u>\$ -</u> | \$ 420,699   | \$ 2,336,074 |
| <u>December 31, 2019</u>                                |                     |             |              |              |
|   | Level 1             | Level 2     | Level 3      | Total        |
| Financial assets at FVTOCI<br>Equity securities         |                     |             |              |              |
| Securities listed in the ROC Securities listed in other | \$ 1,182,250        | \$ -        | \$ -         | \$ 1,182,250 |
| countries   | 421,894             | -           | -            | 421,894      |
| Securities unlisted                                     |                     |             | 396,986      | 396,986      |
|   | \$ 1,604,144        | <u>\$</u>   | \$ 396,986   | \$ 2,001,130 |

There were no transfers between Level 1 and Level 2 in the current and prior years.

#### 2) Reconciliation of Level 3 fair value measurements of financial assets

|  | Financial Assets at FVTOCI For the Year Ended December 31 |            |  |
|--|---|------------|--|
|  |   |            |  |
| Financial Assets   | 2020  | 2019       |  |
| Balance at January 1 Total gain recognized in other comprehensive income | \$ 396,986  | \$ 334,912 |  |
| (unrealized gain on financial assets at FVTOCI)                          | 23,713  | 62,074     |  |
| Balance at December 31   | \$ 420,699  | \$ 396,986 |  |

#### 3) Valuation used in Level 3 fair value measurement

The fair values of equity securities listed in the ROC and other countries was arrived at using either the asset-based approach or based on the multiplier evaluated in the active market by the market approach and adjustments of liquidity.

#### c. Categories of financial instruments

|   | December 31                |                            |  |
|---|----------------------------|----------------------------|--|
|   | 2020                       | 2019                       |  |
| Financial assets                                      |                            |                            |  |
| Measured at amortized costs (1)<br>Measured at FVTOCI | \$ 17,159,824<br>2,336,074 | \$ 13,872,145<br>2,001,130 |  |
| Financial liabilities                                 |                            |                            |  |
| Measured at amortized cost (2)                        | 25,167,034                 | 23,524,831                 |  |

- 1) The balances included financial assets measured at amortized cost, which comprise cash and cash equivalents, trade receivables (including receivables from related parties), other receivables and other financial assets.
- 2) The balances included financial liabilities measured at amortized cost, which comprise, notes payable and trade payables (including payables to related parties), other payables (including other payables to related parties), payable for purchases of equipment, guarantee deposits and long-term loans (including current portion).

#### d. Financial risk management objectives and policies

The Group manages its exposure to risks relating to the operations through market risk, credit risk, and liquidity risk with the objective to reduce the potentially adverse effects the market uncertainties may have on its financial performance.

The plans for material treasury activities are reviewed by management in accordance with procedures required by relevant regulations or internal controls. During the implementation of such plans, the Group must comply with certain treasury procedures that provide guiding principles for overall financial risk management.

#### 1) Market risk

The Group's activities exposed it primarily to the financial risks of changes in foreign currency exchange rates (see (a) below), interest rates (see (b) below), and other price risk (see (c) below).

#### a) Foreign currency risk

The Group had foreign currency sales and purchases, which exposed the Group to foreign currency risk. Exchange rate exposures were managed within approved policy parameters utilizing foreign exchange forward contracts.

#### Sensitivity analysis

The Group was mainly exposed to the USD and JPY.

The sensitivity analysis of foreign currency risk focuses mainly on exchange rates for transactions in currencies other than the entity's functional currency (i.e. foreign currencies) which are recognized at the rates of exchange prevailing at the end of each reporting period.

The following table details the Group's sensitivity to a 3% and 10% increase in the New Taiwan dollars (i.e. the functional currency) against the USD and JPY, respectively. The sensitivity rates used are 3% and 10% when reporting foreign currency risk internally to key management personnel.

|                         | <b>USD Impact</b>                 |                  | JPY Impact                        |                  |
|-------------------------|-----------------------------------|------------------|-----------------------------------|------------------|
|                         | For the Year Ended<br>December 31 |                  | For the Year Ended<br>December 31 |                  |
|                         |                                   |                  |                                   |                  |
|                         | 2020                              | 2019             | 2020                              | 2019             |
| Pre-tax profit decrease | \$ 93,594                         | <u>\$ 90,081</u> | <u>\$160,081</u>                  | <u>\$117,894</u> |

#### b) Interest rate risk

The Group is exposed to interest rate risk from outstanding bank loans. Interest rates of the Group's long-term bank loans are floating, and changes in interest rates would affect the future cash flows but not the fair value.

The sensitivity analysis of interest is performed based on the financial liabilities exposed to cash flow interest rate risk at the end of each reporting period.

If interest rates had been 50 basis points higher/lower, the Group's pre-tax loss for the years ended December 31, 2020 and 2019 would decrease/increase by NT\$80,744 thousand and NT\$65,388 thousand, respectively.

#### c) Other price risk

The Group was exposed to equity price risk through its investments in equity securities. Equity investments are held for strategic rather than trading purposes. The Group does not actively trade these investments.

#### Sensitivity analysis

A sensitivity analysis of equity prices is performed based on the fair values of equity investments at the end of each reporting period.

If equity prices had been 10% higher/lower, equity for the years ended December 31, 2020 and 2019 would have increase/decrease by NT\$233,607 thousand and NT\$200,113 thousand, respectively, as a result of the changes in fair value of available-for-sale investments.

#### 2) Credit risk

Credit risk refers to the risk that counterparty will default on its contractual obligations resulting in financial loss to the Group. The Group's exposure to credit risk mainly arises from trade receivables - operating, bank deposits, and other financial instruments. Credit risk is managed separately for business related and financial related exposures.

#### Business related credit risk

In order to maintain the credit quality of trade receivables, the Group has established procedures to monitor and limit exposure to credit risk on trade receivables.

Credit evaluation is performed in the consideration of the relevant factors, such as financial condition, external and internal credit scoring, historical experience, and economic conditions, which may affect the customer's paying ability. The Group holds some of the credit enhancements such as prepayments and collateral to mitigate its credit risks.

Trade receivables consisted of a large number of customers, spread across diverse industries and geographical areas.

As of December 31, 2020 and 2019, the Group's ten largest customers accounted for 57% and 54% of its total trade receivables (including receivables from related parties), respectively. The Group believed that the concentration of credit risk is relatively insignificant for the remaining trade receivables.

#### Financial credit risk

The Group's exposure to financial credit risk which pertained to bank deposits and other financial instruments were evaluated and monitored by Corporate Treasury function. The Group only deals with creditworthy counterparties and banks so that no significant credit risk was identified.

#### 3) Liquidity risk

The objective of liquidity risk management is to ensure the Group has sufficient liquidity to fund its business requirements of cash and cash equivalents and the unused of financing facilities associated with existing operations.

The table below summarizes the maturity profile of the Group's financial liabilities based on contractual and undiscounted payments, including principal and estimated interest.

#### December 31, 2020

|   | On Demand or<br>Less than<br>1 Year   | 1-3 Years               | 3-5 Years               | 5+ Years       | Total                                    |
|---|---------------------------------------|-------------------------|-------------------------|----------------|--|
| Non-derivative financial liabilities                          |                                       |                         |                         |                |  |
| Non-interest bearing<br>Lease liabilities<br>Interest bearing | \$ 10,702,363<br>128,813<br>5,626,283 | \$ 227,291<br>8,046,662 | \$ 188,559<br>2,891,576 | \$ 630,296<br> | \$ 10,702,363<br>1,174,959<br>16,564,521 |
|   | <u>\$ 16,457,459</u>                  | \$ 8,273,953            | \$ 3,080,135            | \$ 630,296     | \$ 28,441,843                            |

Additional information about the maturity analysis for lease liabilities:

|   | Less than 1<br>Year | 1-5 Years  | 5-10 Years                                   | 10-15 Years                                  | 15-20 Years                       | 20+ Years   |
|---|---------------------|--|--|--|-----------------------------------|---|
| Lease liabilities   | <u>\$ 128,813</u>   | \$ 415,850                                       | <u>\$ 376,402</u>                            | <u>\$ 245,069</u>                            | <u>\$ 8,825</u>                   | <u>\$</u>   |
| <u>December 31, 2019</u>                                      |                     |  |  |  |                                   |   |
|   |                     | n Demand or<br>Less than<br>1 Year               | 1-3 Years                                    | 3-5 Years                                    | 5+ Years                          | Total   |
| Non-derivative financial liabi                                | <u>lities</u>       |  |  |  |                                   |   |
| Non-interest bearing<br>Lease liabilities<br>Interest bearing | \$<br>_<br>\$       | 10,522,419<br>116,088<br>3,491,961<br>14,130,468 | \$ -<br>204,217<br>7,162,099<br>\$ 7,366,316 | \$ -<br>190,821<br>2,920,035<br>\$ 3,110,856 | \$ -<br>685,258<br><br>\$ 685,258 | \$ 10,522,419<br>1,196,384<br>13,574,095<br>\$ 25,292,898 |
| Additional information  | on about the        |  |  |  |                                   | <u>,-,-,-,</u>  |
|   | Less than 1<br>Year | 1-5 Years  | 5-10 Years                                   | 10-15 Years                                  | 15-20 Years                       | 20+ Years   |
| Lease liabilities   | <u>\$ 116,088</u>   | \$ 395,038                                       | \$ 391,353                                   | \$ 293,905                                   | <u>\$</u>                         | <u>\$</u>   |

The amounts included above for variable interest rate instruments for both non-derivative financial assets and liabilities was subject to change if changes in variable interest rates were to differ from those estimates of interest rates determined at the end of the reporting period.

#### 31. TRANSACTIONS WITH RELATED PARTIES

Balances and transactions between the Company and its subsidiaries, which are related parties of the Company, have been eliminated on consolidation and are not disclosed in this note. Besides information disclosed elsewhere in the other notes, details of transactions between the Group and other related parties are disclosed below.

a. Related parties and their relationships associated with the Company:

| Related Parties                                | Relationship with the Company               |
|--|---|
| MegaChips Corporation (MegaChips)              | Key management personnel                    |
| Ardentec Corporation (Ardentec)                | The Group is its major management authority |
| TM Technology, Inc. (TMTECH)                   | Others (Note)                               |
| Etron Technology, Inc. (Etron)                 | Others                                      |
| Macronix Education Foundation (MXIC Education) | Others                                      |

Note: As Etron Technology, Inc. disposed of its shares in TM Technology, Inc. on October 22, 2019, the Group lost its significant influence over TM Technology, Inc.

#### b. Operating revenues

|          |           |                                 | For the Year En   | ded December 31      |
|----------|-----------|---------------------------------|-------------------|----------------------|
| Line Ite | ems Relat | ed Parties Categories/Name      | 2020              | 2019                 |
| Sales    | •         | nanagement personnel<br>gaChips | \$ 16,101,433<br> | \$ 13,236,202<br>365 |
|          |           |                                 | \$ 16,101,433     | \$ 13,236,567        |

Sales prices for the related parties were not comparable to those for external customers as the Group was the sole provider of these customers. The sales terms for the related parties was 30 days.

#### c. Purchases

|                                 | For the Year Ended December 31 |              |  |
|---------------------------------|--------------------------------|--------------|--|
| Related Parties Categories/Name | 2020                           | 2019         |  |
| Key management personnel        |                                |              |  |
| MegaChips                       | <u>\$ 6,209,245</u>            | \$ 2,800,371 |  |

Materials purchased from related parties were for manufacturing process. The payment term was 30 days after monthly closing and after acceptance of materials.

#### d. Receivables from related parties

|                          |                                 | December 31         |                   |  |
|--------------------------|---------------------------------|---------------------|-------------------|--|
| Line Items               | Related Parties Categories/Name | 2020                | 2019              |  |
| Receivables from related | Key management personnel        |                     |                   |  |
| parties, net             | MegaChips                       | <u>\$ 1,647,427</u> | <u>\$ 973,076</u> |  |

The outstanding trade receivables from related parties are unsecured. For the years ended December 31, 2020 and 2019, no impairment loss was recognized for trade receivables from related parties.

#### e. Payables to related parties

|                             |  | December 31            |                        |  |
|-----------------------------|--|------------------------|------------------------|--|
| Line Items                  | Related Parties Categories/Name  | 2020                   | 2019                   |  |
| Payables to related parties | Key management personnel MegaChips The Group is its major management authority | \$ 4,062,278<br>99,149 | \$ 4,653,909<br>66,303 |  |
|                             | management authority   |                        |                        |  |
|                             |  | <u>\$ 4,161,427</u>    | \$ 4,720,212           |  |

The outstanding trade payables from related parties are unsecured and will be settled in cash.

#### f. Other transactions with related parties

|                        |   | For the Year Endo | ed December 31   |
|------------------------|---|-------------------|------------------|
| Line Items             | Related Parties Categories/Name             | 2020              | 2019             |
| Manufacturing expenses | The Group is its major management authority |                   |                  |
|                        | Ardentec                                    | \$ 306,514        | \$ 255,716       |
|                        | Major management authority                  | <del></del>       | 9,254            |
|                        |   | <u>\$ 306,514</u> | \$ 264,970       |
| Operating expenses     | Others                                      |                   |                  |
|                        | MXIC Education                              | \$ 23,028         | \$ 22,028        |
|                        | Etron                                       | 91                | 809              |
|                        |   | <u>\$ 23,119</u>  | <u>\$ 22,837</u> |

The manufacturing expense of related parties were comparable to those with other vendors. The payment term was 75 days after monthly closing.

#### g. Compensation of key management personnel

|                                   | For the Year End  | ded December 31 |
|-----------------------------------|-------------------|-----------------|
|                                   | 2020              | 2019            |
| Short-term benefits               | \$ 504,012        | \$ 301,995      |
| Post-employment benefits          | 6,835             | 8,651           |
| Share-based payments              | 48,751            | 13,899          |
| Other long-term employee benefits | (14)              | (27)            |
|                                   | <u>\$ 559,584</u> | \$ 324,518      |

The remuneration of key executives was determined by the remuneration committee based on the performance of individuals and market trends.

#### 32. ASSETS PLEDGED AS COLLATERAL OR FOR SECURITY

The following assets were provided as collateral for bank borrowings, the tariff of imported raw materials guarantees, natural gas agreements, and land lease agreements:

|  | Decem                           | iber 31                  |
|--|---------------------------------|--------------------------|
|  | 2020                            | 2019                     |
| Property, plant and equipment, net<br>Pledge deposits (classified as other financial assets - non-current) | \$ 12,915,218<br><u>157,665</u> | \$ 13,228,948<br>157,665 |
|  | \$ 13,072,883                   | \$ 13,386,613            |

#### 33. SIGNIFICANT CONTINGENT LIABILITIES AND UNRECOGNIZED COMMITMENTS

In addition to those disclosed in other notes, significant commitments and contingencies of the Group as of December 31, 2020 and 2019 were as follows:

- a. As of December 31, 2020 and 2019, unused letters of credit amounted to approximately NT\$0 thousand and NT\$36,917 thousand, respectively.
- b. Unrecognized commitments are as follows:

|  | Decem               | iber 31             |
|--|---------------------|---------------------|
|  | 2020                | 2019                |
| Acquisition of property, plant and equipment | <u>\$ 2,137,663</u> | <u>\$ 1,420,915</u> |

- c. In January 2019, the Company again signed an agreement with IBM to continue the joint development of phase-change memory technology, and the agreement is effective from January 2019 to January 2022. Under the agreement, both parties share the related expenditures of the technology development, and the unrecognized contract amounts were US\$4,000 thousand.
- d. The Company's board of directors passed a resolution to donate the Innovation Center Macronix Hall to National Cheng Kung University with a donation amount of \$420,000 thousand. As of December 31, 2020, the Company's unrecognized amount is \$154,000 thousand.
- e. The Company's board of directors passed a resolution to donate to National Cheng Kung University to establish the "School of Computing" to cultivate cross domain innovative talents with dual expertise "specific discipline" and "computing" to contribute to the society, and to fulfill Company's social responsibilities with a donation amount of \$100,000 thousand per year for the following ten years. As of December 31, 2020, the Company has allocated \$100,000 thousand.

#### 34. SIGNIFICANT ASSETS AND LIABILITIES DENOMINATED IN FOREIGN CURRENCIES

The Group's significant financial assets and liabilities denominated in foreign currencies aggregated by the foreign currencies other than functional currencies and the related exchange rates between foreign currencies and respective functional currencies were as follows:

#### December 31, 2020

|                        | Foreign<br>Currencies<br>(In Thousands) | Exchange<br>Rate | Carrying<br>Amount           |
|------------------------|---|------------------|------------------------------|
| Financial assets       |   |                  |                              |
| Monetary items JPY USD | \$ 20,790,537<br>155,570                | 0.2763<br>28.48  | \$ 5,744,425<br>4,430,634    |
|                        |   |                  | \$ 10,175,059<br>(Continued) |

|                          | Foreign<br>Currencies<br>(In Thousands) | Exchange<br>Rate | Carrying<br>Amount                                       |
|--------------------------|---|------------------|--|
| Financial liabilities    |   |                  |  |
| Monetary items JPY USD   | \$ 14,996,812<br>46,026                 | 0.2763<br>28.48  | \$ 4,143,619<br>1,310,820<br>\$ 5,454,439<br>(Concluded) |
| <u>December 31, 2019</u> |   |                  |  |
|                          | Foreign<br>Currencies<br>(In Thousands) | Exchange<br>Rate | Carrying<br>Amount                                       |
| Financial assets         |   |                  |  |
| Monetary items JPY USD   | \$ 21,738,886<br>139,945                | 0.2760<br>29.98  | \$ 5,999,933<br>4,195,551<br>\$ 10,195,484               |
| Financial liabilities    |   |                  |  |
| Monetary items JPY USD   | 17,467,359<br>39,788                    | 0.2760<br>29.98  | \$ 4,820,991<br>1,192,844<br>\$ 6,013,835                |

For the years ended December 31, 2020 and 2019, realized and unrealized net foreign exchange gains (losses) were NT\$95,298 thousand and NT\$(60,722) thousand, respectively. It is impractical to disclose net foreign exchange losses by each significant foreign currency due to the variety of the foreign currency transactions and functional currencies of the Group.

#### 35. SEPARATELY DISCLOSED ITEMS

- a. Information about significant transactions:
  - 1) Financing provided to others: None
  - 2) Endorsements/guarantees provided: None
  - 3) Marketable securities held (excluding investment in subsidiaries, associates and joint ventures): Table 1 (attached)
  - 4) Marketable securities acquired and disposed of at costs or prices of at least NT\$300 million or 20% of the paid-in capital: None

- 5) Acquisition of individual real estate at costs of at least NT \$300 million or 20% of the paid-in capital: None
- 6) Disposal of individual real estate at prices of at least NT\$300 million or 20% of the paid-in capital: None
- 7) Total purchases from or sales to related parties amounting to at least NT\$100 million or 20% of the paid-in capital: Table 2 (attached)
- 8) Receivables from related parties amounting to at least NT\$100 million or 20% of the paid-in capital: Table 3 (attached)
- 9) Trading in derivative instruments: None
- 10) Intercompany relationships and significant intercompany transactions: Table 4 (attached)
- b. Information on investees: Table 5 (attached)
- c. Information on investments in mainland China:
  - 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, shareholding ratio, investment gains or losses, carrying amount of the investment at the end of the period, repatriation of investment gains or losses, and limit on the amount of investment in the mainland China area: Table 6 (attached)
  - 2) Any of the significant transactions with investee companies in mainland China, either directly or indirectly through a third area, and their prices, payment terms, and unrealized gains or losses: Table 4 (attached)
- d. Information of major shareholders: List all shareholders with ownership of 5% or greater showing the name of the shareholder, the number of shares owned, and percentage of ownership of each shareholder: None

#### **36. SEGMENT INFORMATION**

Information reported to the chief operating decision maker for the purposes of resource allocation and assessment of segment performance emphasizes on the types of goods or services delivered or provided. Considering the nature of the product and the process of manufacture, the management integrated those divisions of similar operation functions into one operation segment. The reporting segments of the Group were as follows:

Memory products and wafer fabrication

IC design

There was no material difference between the accounting policies of the reportable segment and those described in Note 4.

#### a. Segment revenues and results

b.

The following was an analysis of the Group's revenue and results from continuing operations by reportable segment.

|   | For the Year End  | erating Revenue<br>ded December 31                        |
|---|---|---|
|   | 2020  | 2019  |
| Memory products and wafer fabrication IC design   | \$ 39,800,902<br>45                                       | \$ 34,987,810<br>   |
| Total   | \$ 39,800,947   | \$ 34,995,411   |
|   |   | nd Net Income   |
|   | For the Year End  | led December 31   |
|   | 2020  | 2019  |
| Memory products and wafer fabrication IC design Total Interest income Other income                | \$ 5,875,847  | \$ 3,080,466  |
| Other gains and losses  | 60,281  | (66,202)  |
| Finance costs   | (246,956)   | (196,943)   |
| Income before tax (continuing operations)   | \$ 5,841,046  | \$ 3,026,326  |
| Segment total assets and liabilities  |   |   |
|   | Decem   | har 31  |
|   | 2020  | 2019  |
| Segment assets  |   |   |
| Memory products and wafer fabrication   | \$ 65,040,620   | \$ 59,348,609   |
| IC design   | 19,751  | 29,213  |
| Total segment assets  | 65,060,371  | 59,377,822  |
| Uncollected assets  | 831,847   | 1,278,956   |
| Consolidated total assets   | \$ 65,892,218   | \$ 60,656,778   |
| Segment liabilities   |   |   |
| Memory products and wafer fabrication IC design Total segment liabilities Uncollected liabilities | \$ 13,481,320<br><u>4,256</u><br>13,485,576<br>16,212,250 | \$ 13,556,818<br><u>4,522</u><br>13,561,340<br>14,602,770 |
| Consolidated total liabilities  | <u>\$ 29,697,826</u>                                      | <u>\$ 28,164,110</u>                                      |

For the purpose of monitoring segment performance and allocating resources between segments:

- 1) All assets were allocated to reportable segments other than interests in associates accounted for using the equity method, other financial assets, and current and deferred tax assets. Assets used jointly by reportable segments were allocated on the basis of the revenue earned by individual reportable segments; and
- 2) All liabilities were allocated to reportable segments other than borrowings and other financial liabilities. Liabilities for which reportable segments are jointly liable were allocated in proportion to segment assets.

#### c. Geographical information

The Group operates in two principal geographical areas - Taiwan and China.

The Group's net operating revenue from external customers by location of operations and information about its non-current assets by location of assets are detailed below.

|                           | Custo                                   | om External omers December 31           |                                     | ent Assets<br>aber 31               |
|---------------------------|---|---|-------------------------------------|-------------------------------------|
|                           | 2020                                    | 2019                                    | 2020                                | 2019                                |
| Taiwan<br>China<br>Others | \$ 31,960,513<br>6,398,649<br>1,441,785 | \$ 28,537,524<br>5,019,996<br>1,437,891 | \$ 32,009,324<br>192,056<br>361,094 | \$ 29,918,692<br>197,621<br>373,684 |
|                           | \$ 39,800,947                           | \$ 34,995,411                           | \$ 32,562,474                       | \$ 30,489,997                       |

Non-current assets exclude financial instruments and deferred tax assets.

#### d. Information about major customers

Single customers who contributed 10% or more to the Group's revenue were as follows:

|            | For the Year En | ded December 31      |
|------------|-----------------|----------------------|
|            | 2020            | 2019                 |
| Customer A | \$ 16,101,433   | <u>\$ 13,236,202</u> |

MACRONIX INTERNATIONAL CO., LTD. AND SUBSIDIARY

MARKETABLE SECURITIES HELD
DECEMBER 31, 2020
(In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

|                      |  | D. 1. 2                                  |   |                                | December           | December 31, 2020              |              | 21.                     |
|----------------------|--|--|---|--------------------------------|--------------------|--------------------------------|--------------|-------------------------|
| Holding Company Name | Type and Name of Marketable Securities | Kelationship with the Holding<br>Company | Financial Statement Account                 | Shares/Units<br>(In Thousands) | Carrying<br>Amount | Percentage of<br>Ownership (%) | Fair Value   | Snares as<br>Collateral |
| The Company          | Shares<br>Ardantso Companyion          | The Commons coming or mampar of          | or mamban of Financial access of EVTOCI non | 35 051 871                     | \$ 1380540         | 7 33                           | \$ 1.380.540 | Mone                    |
|                      | Auciliee Colporation                   | its board of directors                   | current                                     | 17,071.07.                     | 0+5,202,1+0        | SC. /                          | 0,505,540    | INOILE                  |
|                      | United Industrial Gases Co., Ltd.      | None                                     |   | 6,671,877                      | 389,504            | 3.06                           | 389,504      | None                    |
|                      | Zowie Technology Co., Ltd.             | None                                     | "   | 20,426                         | 1                  | 0.10                           | ı            | None                    |
| MXBVI                | Shares                                 |  |   |                                |                    |                                |              |                         |
|                      | Chipbond Technology Corporation        | None                                     | Financial assets at FVTOCI - non current    | 1,088,319                      | 72,264             | 0.17                           | 72,264       | None                    |
|                      | Tower Semiconductor Ltd.               | None                                     |   | 578,552                        | 425,440            | 0.54                           | 425,440      | None                    |
|                      | Amphastar Pharmaceuticals, Inc.        | None                                     | ,,  | 49,116                         | 28,131             | 0.10                           | 28,131       | None                    |
| Hui Ying             | Shares                                 |  |   |                                |                    |                                |              |                         |
|                      | Macronix International Co., Ltd.       | The Company                              | Financial assets at FVTOCI - non            | 1,956,619                      | 82,765             | 0.11                           | 82,765       | None                    |
|                      | Raio Technology Co., Ltd.              | None                                     | "   | 1,247,288                      | 31,195             | 10.03                          | 31,195       | None                    |

MACRONIX INTERNATIONAL CO., LTD. AND SUBSIDIARY

TOTAL PURCHASES FROM OR SALES TO RELATED PARTIES AMOUNTING TO AT LEAST NT\$100 MILLION OR 20% OF THE PAID-IN CAPITAL FOR THE YEAR ENDED DECEMBER 31, 2020 (In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

| 7                                   | Note              | 1   |                               |             |  | 1                                  | ı                                  |
|-------------------------------------|-------------------|---|-------------------------------|-------------|--|------------------------------------|------------------------------------|
| eivable                             | % to<br>Total     | 32  | 11                            | 7           | 57   | 100                                | 100                                |
| Notes/Accounts Receivable (Payable) | Ending Balance    | 1,647,427   | 587,454                       | 98,670      | 4,062,279  | \$ 20,627                          | 3,465                              |
|                                     | Enc               | 8   |                               |             |  | \$SO                               | ns\$                               |
| Abnormal Transaction                | Payment<br>Term   | Note 31   | Note 31                       | Note 31     | Note 31  | No material No material difference | No material No material difference |
| Abnormal                            | Unit Price        | Note 31   | Note 31                       | Note 31     | Note 31  | No material difference             | No material<br>difference          |
| Details                             | Payment Terms     | 41 30 days after monthly closing  | 45 days after monthly closing | Net 60 days | 30 days after monthly closing and Note 31 after acceptance of materials          | 100 45 days after monthly closing  | 100 Net 60 days                    |
| Transaction Details                 | % to<br>Total     | 41  | 15                            | 3           | 52   | 100                                | 100                                |
| Tran                                | Amount            | 16,101,433  | 5,778,319                     | 1,257,037   | 6,209,245  | 195,739                            | 3 42,470                           |
|                                     | _                 | 8   |                               |             |  | NS\$                               | US\$                               |
|                                     | Purchase/<br>Sale | ment, Sales<br>rd of  | Sales                         | Sales       | ment, Purchase<br>rd of  | Purchase                           | Purchase                           |
| Doloticachie                        | Kelationship      | Its subsidiary, Shun Ying Investment, Sales is represented in MXIC's board of directors | Indirect subsidiary           | Subsidiary  | Its subsidiary, Shun Ying Investment, Purchase is represented in MXIC's board of | Indirect subsidiary                | Subsidiary                         |
| Delected Bester                     | Related Farty     | MegaChips   | MXHK                          | MXA         | MegaChips  | The Company                        | The Company                        |
| D                                   | Buyer             | The Company   |                               |             |  | MXHK                               | MXA                                |

MACRONIX INTERNATIONAL CO., LTD. AND SUBSIDIARY

RECEIVABLES FROM RELATED PARTIES AMOUNTING TO AT LEAST NT\$100 MILLION OR 20% OF THE PAID-IN CAPITAL DECEMBER 31, 2020 (In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

|                       |               | Dolotionshin  |                   |                 |        | Overdue      | Amounts Received in   | Allowance for   |
|-----------------------|---------------|---|-------------------|-----------------|--------|--------------|-----------------------|-----------------|
| Company Name          | Neigred Farty | Kelanonsinp   | Ellullig Dalalice | I UTILOVET NAUE | Amount | Action Taken | Subsequent Period     | Impairment Loss |
| The Company MegaChips | MegaChips     | Its subsidiary, Shun Ying Investment, is represented in MXIC's board of | \$ 1,647,427      | 12.29 times     | . ≪    | ı            | \$ 1,647,427 thousand | · ·             |
|                       | MXHK          | directors<br>Indirect subsidiary  | 587,454           | 8.76 times      | ı      | 1            | 587,454 thousand      | 1               |
|                       | MAA           | Substanty   | 90,070            | 10.00 tilles    | •      |              | 70,0 /U IIIOUSAIIU    | ı               |

# MACRONIX INTERNATIONAL CO., LTD. AND SUBSIDIARY

INTERCOMPANY RELATIONSHIPS AND SIGNIFICANT TRANSACTIONS FOR THE YEAR ENDED DECEMBER 31, 2020 (In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

|                  |              | Deletionship |                                     |              | Transaction Details |                                  |
|------------------|--------------|--------------|-------------------------------------|--------------|---------------------|----------------------------------|
| Investee Company | Counterparty | (Note 1)     | Financial Statement Accounts        | Amount       | Payment Terms       | % to Total Revenues or<br>Assets |
| The Company      | MXHK         | 1            | Sales                               | \$ 5,778,319 | Note 2              | 15%                              |
| •                |              |              | Net receivable from related parties | 587,454      |                     | 1%                               |
|                  | MXE          | 1            | Operating expenses                  | 134,553      | 1                   |                                  |
|                  |              |              | Other payables to related parties   | 45,740       |                     |                                  |
|                  | MXA          | 1            | Sales                               | 1,257,037    | Note 2              | 3%                               |
|                  |              |              | Operating expenses                  | 206,028      |                     | 1%                               |
|                  |              |              | Net receivable from related parties | 08,670       | -                   | -                                |
|                  |              |              | Other payables to related parties   | 58,659       |                     |                                  |
|                  | Mxtran       | 1            | Rental revenue                      | 435          | Note 3              |                                  |
|                  |              |              | IT service revenue                  | 318          |                     |                                  |
|                  | MX Asia      | 1            | Operating expenses                  | 100,854      |                     |                                  |
| _ ]              |              |              | Other payables to related parties   | 25,574       |                     |                                  |
| MXHK             | MXm          | 3            | Operating expenses                  | 314,183      |                     | 1%                               |
| 1                |              |              |                                     |              |                     |                                  |

Note 1: The transactions from the parent company to the subsidiary are denoted as 1.

The transactions from the subsidiary to the parent company are denoted as 2.

The transactions between two subsidiaries are denoted as 3.

Note 2: The sales price refers to the agreed upon product price for the end customer.

Note 3: The Company leased office space to related parties and collected rental revenue according to the floor space per month.

Note 4: The transaction terms with related parties were 30 to 60 days after monthly closing and were similar to those with third parties.

MACRONIX INTERNATIONAL CO., LTD. AND SUBSIDIARY

INFORMATION ON INVESTEES
FOR THE YEAR ENDED DECEMBER 31, 2020
(In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

|                  |                                      |   |   | Original Invest                                 | Original Investment Amount                      | Balance a  | Balance as of December 31, 2020      | .31,2020  | Not Income (Lece)                               | Choung of Dungfit                      |  |
|------------------|--------------------------------------|---|---|---|---|--|--------------------------------------|---|---|--|--|
| Investor Company | Investee Company                     | Location  | Main Businesses and Products  | December 31,<br>2020                            | December 31,<br>2019                            | Shares   | %                                    | Carrying Amount                                   |   | Share of From<br>(Loss)                | Note   |
| The Company      | MXA<br>MXBVI<br>Hui Ying<br>Run Hong | San Jose, California, USA.<br>Tortola, British Virgin Islands<br>Taipei, Taiwan<br>Taipei, Taiwan | Sales and marketing<br>Investment holding company<br>Investment<br>Investment   | \$ 2,640<br>7,348,057<br>500,000<br>984,432     | \$ 2,640<br>7,348,057<br>500,000<br>984,432     | \$ 100,000<br>212,048,000                                | 100.00<br>100.00<br>100.00<br>100.00 | \$ 174,769<br>2,235,463<br>83,782<br>14,113       | \$ 15,552<br>142,922<br>7,014<br>(483)          | \$ 14,939<br>143,018<br>4,687<br>(483) |  |
| MXBVI            | Matean NTTI MAXE MPL MPL MAXHK MAXHK | Hsinchu, Taiwan<br>San Jose, California, USA.<br>Belgium<br>Singapore<br>Hong Kong                | IC design IC design After-sales service After-sales service Sales and marketing | 755,287<br>899,931<br>2,106<br>3,291<br>378,427 | 755,287<br>891,291<br>2,106<br>3,291<br>378,427 | 69,627,323<br>27,450,000<br>999<br>174,000<br>89,700,000 | 90.43<br>100.00<br>100.00<br>100.00  | 14,019<br>278,367<br>133,516<br>21,932<br>917,699 | (9,138)<br>(8,812)<br>7,429<br>2,308<br>130,729 | (8,262) Note Note Note Note            | Subsidiary Subsidiary Subsidiary Subsidiary Subsidiary Subsidiary Subsidiary |
| Run Hong         | Mxtran                               | Hsinchu, Taiwan   | IC design   | 40,318  | 40,318  | 3,393,200  | 4.41                                 | 683   | (9,138)   | Note                                   |  |
| Mxtran           | Mxtran Samoa                         | Samoa   | Investment holding company  | 35,979  | 35,979  | 1,170,000  | 100.00                               | 984   | 1   | Note                                   | Subsidiary   |
| Mxtran Samoa     | Mxtran HK                            | Hong Kong   | Investment holding company  | 23,880  | 23,880  | 6,152,000  | 100.00                               | 419   |   | Note                                   | Subsidiary   |

Note: Under relevant regulations, no disclosure of investment gain (loss) is needed.

Carrying Amount as Repartration of Ocember 31, 2020 December 31, 2020

Investment Gain (Loss) (Note 1) \$ 400,483

\$ 11,040

MACRONIX INTERNATIONAL CO., LTD. AND SUBSIDIARY

INFORMATION ON INVESTMENT IN MAINLAND CHINA FOR THE YEAR ENDED DECEMBER 31, 2020 (In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

|                     | _ •  |   |
|---------------------|--|---|
|                     | % Ownership for<br>Direct or Indirect<br>Investment                            | 100   |
|                     | Net Income (Loss) of<br>the Investee   | \$ 11,040   |
| Accumulated         | Outward Remittance<br>for Investment from<br>Taiwan as of<br>December 31, 2020 | \$ 296,160  |
| Remittance of Funds | Inward   | \$  |
| Remittance          | Outward  | \$  |
| Accumulated         | Outward Remittance<br>for Investment from<br>Taiwan as of<br>January 1, 2020   | \$ 296,160  |
|                     | Method of<br>Investment  | MXHK<br>(Note 2)                                      |
|                     | Paid-in Capital  | \$ 296,160  |
|                     | Main Businesses and Products   | Development of integrated circuit system and software |
|                     | Investee Company   | MXm   |

| Upper Limit on the Amounts of Investment Stipulated by Investment Commission, MOEA         | \$ 21,716,156 |
|--|---------------|
| Investment Amount Authorized by the Investment<br>Commission, MOEA                         | \$ 296,160    |
| Accumulated Outward Remittance for Investment in<br>Mainland China as of December 31, 2020 | \$ 296,160    |

Note 1: The amount was recognized based on the audited financial statements of the investee company.

Note 2: The Company invested in a company located in mainland China indirectly through the existing company in a third country.

## **Macronix International Co., Ltd.**

Parent Company Only Financial Statements for the Years Ended December 31, 2020 and 2019 and Independent Auditors' Report

# Deloitte.

## 勤業眾信

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#### INDEPENDENT AUDITORS' REPORT

The Board of Directors and the Shareholders Macronix International Co., Ltd.

#### **Opinion**

We have audited the accompanying financial statements of Macronix International Co., Ltd. (the "Company"), which comprise the balance sheets as of December 31, 2020 and 2019, 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 Company as of December 31, 2020 and 2019, 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 Company 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, 2020. 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.

Key audit matters for the Company's parent company only financial statements for the year ended December 31, 2020 are stated as follows:

#### Valuation of inventory

The Company manufactures and sells ROM products, NOR Flash, and NAND Flash, which are widely used in consumer electronics. As of December 31, 2020, inventory was NT\$12,912,017 thousand, accounting for 20% of the total assets. With the current rapid changes in technology and the improvements in manufacturing technologies, market demand for memory chip could change significantly and result in inventory obsolescence. Since inventory valuation and estimates of net realizable value of inventory are subject to management's judgment, they are considered as

accounting estimates with relatively high uncertainty. Therefore, valuation of inventory has been identified as a key audit matter. Refer to Notes 4(e), 5(a) and 9 to the financial statements for the details of accounting policy, accounting judgment, key sources of estimation uncertainty and the related information about the valuation of inventory.

Our key audit procedures performed in respect of the above area included the following:

- 1. We understood and assessed the adequacy of the policy and procedures for the inventory valuation adopted by the management.
- 2. We obtained data on the assessment of inventory at the lower of cost or net realizable value and selected sample data, and we tested the reasonableness of net realizable value by comparing inventory carrying amounts to recent selling prices; we tested the reasonableness of allowance for inventory loss by comparing net realizable value with carrying amounts. We obtained the inventory aging report, and we tested the accuracy and completeness of the report by agreeing the age interval, quantity and amount to the supporting documents of inbound inventory. We assessed the reasonableness of allowance for inventory loss by recalculating the amount in accordance with the stated valuation policy for the inventory.
- 3. We performed a retrospective review of inventory movements to evaluate the reasonableness of inventory obsolescence reserve policy and policy on scrapping of inventories.

## 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 Company'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 Company 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 Company'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 Company'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 Company'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 Company 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 Company 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, 2020 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 Tung Hui Yeh and Kuo Tyan Hong.

Deloitte & Touche Taipei, Taiwan Republic of China

February 26, 2021

#### 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.

# PARENT COMPANY ONLY BALANCE SHEETS DECEMBER 31, 2020 AND 2019 (In Thousands of New Taiwan Dollars)

|   | 2020                 |        | 2019                 |           |
|---|----------------------|--------|----------------------|-----------|
| ASSETS  | Amount               | %      | Amount               | %         |
| CURRENT ASSETS  |                      |        |                      |           |
| Cash and cash equivalents (Notes 4, 6 and 29)   | \$ 10,297,465        | 16     | \$ 7,631,948         | 13        |
| Notes receivable and trade receivables, net (Notes 4, 8 and 29)   | 2,875,021            | 4      | 2,910,111            | 5         |
| Receivables from related parties, net (Notes 4, 29 and 30)<br>Other receivables (Notes 4, 8, 25, 29 and 30)                   | 2,333,551<br>110,939 | 4      | 1,841,672<br>125,248 | 3         |
| Inventories (Notes 4, 5 and 9)  | 12,912,017           | 20     | 12,768,317           | 21        |
| Other current assets (Note 15)  | 99,553               |        | 226,115              |           |
| Total current assets  | 28,628,546           | 44     | 25,503,411           | 42        |
| NON-CURRENT ASSETS  |                      |        |                      |           |
| Financial assets at fair value through other comprehensive income (FVTOCI) - non-current                                      |                      |        |                      |           |
| (Notes 4, 7 and 29)   | 1,779,044            | 3      | 1,440,574            | 2         |
| Investments accounted for using equity method (Notes 4 and 10)  | 2,522,146            | 4      | 2,397,392            | 4         |
| Property, plant and equipment (Notes 4, 11, 31 and 32)  | 31,016,511           | 47     | 28,904,312           | 48        |
| Right-of use assets(Notes 4 and 12) Intangible assets (Notes 4 and 13)  | 938,081<br>54,629    | 1      | 970,622<br>43,559    | 2         |
| Deferred tax assets (Notes 4 and 25)  | 658,310              | 1      | 1,104,876            | 2         |
| Other financial assets - non-current (Notes 4, 14, 29 and 31)   | 161,767              |        | 161,802              |           |
| Total non-current assets  | 37,130,488           | 56     | 35,023,137           | 58        |
| TOTAL   | <u>\$ 65,759,034</u> | 100    | \$ 60,526,548        | 100       |
| LIABILITIES AND EQUITY  |                      |        |                      |           |
| CURRENT LIABILITIES   |                      |        |                      |           |
| Short-term borrowings (Notes 16 and 29)   | \$ -                 | -      | \$ 1,550,000         | 3         |
| Contract liabilities (Note 23)  | 87,155               | -      | 97,101               | -         |
| Notes payable and trade payables (Notes 17 and 29)  | 2,940,247            | 5      | 2,140,288            | 4         |
| Payables to related parties (Notes 29 and 30)   | 4,161,427            | 6      | 4,720,212            | 8         |
| Accrued employees' compensation and remuneration of directors (Notes 24 and 30) Payables for purchases of equipment (Note 29) | 1,403,624<br>552,400 | 2<br>1 | 1,285,774<br>877,848 | 2 2       |
| Other payables (Notes 18 and 29)  | 1,366,096            | 2      | 1,345,691            | 2         |
| Other payables to related parties (Notes 29 and 30)   | 136,825              | -      | 149,947              | -         |
| Current tax liabilities (Notes 4 and 25)  | 38,349               | -      | -                    | -         |
| Provisions - current (Notes 4 and 20)   | 3,283                | -      | 4,856                | -         |
| Lease liabilities - current (Notes 4 and 12)  | 79,341               | -      | 72,307               | -         |
| Current portion of long-term borrowings (Notes 16, 29 and 31)   | 5,412,007            | 8      | 3,267,200            | 5         |
| Other current liabilities (Note 19)   | 323,549              | 1      | 222,706              |           |
| Total current liabilities   | 16,504,303           | 25     | 15,733,930           | 26        |
| NON-CURRENT LIABILITIES   |                      |        |                      |           |
| Long-term borrowings (Notes 16, 29 and 31)  | 10,736,875           | 17     | 9,774,330            | 16        |
| Lease liabilities - non-current (Notes 4 and 12)  | 873,701              | 1      | 906,049              | 1         |
| Net defined benefit liabilities (Notes 4 and 21) Other non-current liabilities (Note 19)                                      | 1,431,153<br>19,410  | 2      | 1,610,575<br>10,272  | 3         |
| Other non-current naomities (Note 17)   | 15,410               |        | 10,272               |           |
| Total non-current liabilities   | 13,061,139           |        | 12,301,226           |           |
| Total liabilities   | 29,565,442           | 45     | 28,035,156           | <u>46</u> |
| EQUITY ATTRIBUTABLE TO OWNERS OF THE COMPANY (Notes 4, 22 and 27) Share capital   |                      |        |                      |           |
| Ordinary shares   | 18,563,017           | 28     | 18,399,271           | 31        |
| Share capital to be cancelled   | (1,153)              |        | (182)                |           |
| Total share capital   | 18,561,864           | 28     | 18,399,089           | 31        |
| Capital surplus   | 384,772              | 1      | 543,920              | 1         |
| Retained earnings Legal reserve   | 1,741,857            | 3      | 1,440,661            | 2         |
| Special reserve   | 621,195              | 1      | 1,007,052            | 2         |
| Unappropriated earnings   | 15,408,584           | 23     | 12,237,717           | 20        |
| Total retained earnings   | 17,771,636           | 27     | 14,685,430           | 24        |
| Other equity  | (365,619)            | (1)    | (977,986)            | (2)       |
| Treasury shares   | (159,061)            |        | (159,061)            |           |
| Total equity  | 36,193,592           | 55     | 32,491,392           | 54        |
| TOTAL   | \$ 65,759,034        | 100    | \$ 60,526,548        | 100       |

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

# PARENT COMPANY ONLY STATEMENTS OF COMPREHENSIVE INCOME FOR THE YEARS ENDED DECEMBER 31, 2020 AND 2019

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

|  | 2020                                     |                    | 2019                                       |              |
|--|--|--------------------|--|--------------|
|  | Amount                                   | %                  | Amount                                     | %            |
| NET OPERATING REVENUE (Notes 4, 23 and 30)   | \$ 38,995,968                            | 100                | \$ 34,235,969                              | 100          |
| OPERATING COSTS (Notes 4, 9, 21, 24 and 30)  | 26,381,126                               | <u>68</u>          | 25,377,649                                 | 74           |
| GROSS PROFIT   | 12,614,842                               | 32                 | 8,858,320                                  | 26           |
| REALIZED (UNREALIZED) GAIN ON<br>TRANSACTIONS WITH SUBSIDIARIES AND<br>ASSOCIATES (Note 4)   | 16,242                                   |                    | 13,890                                     |              |
| REALIZED GROSS PROFIT  | 12,631,084                               | _32                | 8,872,210                                  | 26           |
| OPERATING EXPENSES (Notes 4, 21, 24 and 30) Selling and marketing expenses General and administrative expenses Research and development expenses   | 935,687<br>1,879,075<br>4,125,219        | 2<br>4<br>         | 894,834<br>1,433,247<br>3,577,367          | 3<br>4<br>10 |
| Total operating expenses   | 6,939,981                                | <u>17</u>          | 5,905,448                                  | <u>17</u>    |
| INCOME FROM OPERATIONS   | 5,691,103                                | <u>15</u>          | 2,966,762                                  | 9            |
| NON-OPERATING INCOME AND EXPENSES Interest income (Note 24) Other income (Notes 4, 7, 12, 24 and 30) Other gains and losses (Note 24) Finance costs (Notes 4 and 24) Share of profit of subsidiaries, associates and joint ventures (Notes 4 and 10) | 20,466<br>116,840<br>71,425<br>(242,735) | -<br>-<br>-<br>(1) | 22,539<br>131,804<br>(56,784)<br>(194,803) |              |
| Total non-operating income and expenses  | 119,895                                  | <u> </u>           | 45,198                                     |              |
| INCOME BEFORE INCOME TAX FROM CONTINUING OPERATIONS  | 5,810,998                                | 15                 | 3,011,960                                  | 9            |
| INCOME TAX EXPENSE (Notes 4 and 25)  | (484,915)                                | (1)                |  |              |
| NET INCOME FOR THE YEAR  | 5,326,083                                | 14                 | 3,011,960                                  | 9            |

(Continued)

# PARENT COMPANY ONLY STATEMENTS OF COMPREHENSIVE INCOME FOR THE YEARS ENDED DECEMBER 31, 2020 AND 2019

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

|   |                 | 2020         |    |                 | 2019         |           |
|---|-----------------|--------------|----|-----------------|--------------|-----------|
|   |                 | Amount       | %  |                 | Amount       | %         |
| OTHER COMPREHENSIVE INCOME (LOSS) Items that will not be reclassified subsequently to profit or loss: |                 |              |    |                 |              |           |
| Remeasurement of defined benefit plans Unrealized gain on investments in equity                       | \$              | (2,737)      | -  | \$              | (108,120)    | -         |
| instruments at FVTOCI (Notes 22 and 29) Share of other comprehensive gain of subsidiaries             |                 | 338,470      | -  |                 | 238,750      | 1         |
| accounted for using the equity method  Items that may be reclassified subsequently to profit or loss: |                 | 102,496      | -  |                 | 208,972      | -         |
| Exchange differences on translating foreign operations (Note 22)                                      |                 | (150,210)    |    |                 | (98,748)     |           |
| Other comprehensive income for the year, net of income tax  |                 | 288,019      |    |                 | 240,854      | 1         |
| TOTAL COMPREHENSIVE INCOME FOR THE YEAR   | <u>\$</u>       | 5,614,102    | 14 | <u>\$</u>       | 3,252,814    | <u>10</u> |
| EARNINGS PER SHARE (Note 26) Basic Diluted  | <u>\$</u><br>\$ | 2.90<br>2.84 |    | <u>\$</u><br>\$ | 1.64<br>1.61 |           |

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

MACRONIX INTERNATIONAL CO., LTD.

PARENT COMPANY ONLY STATEMENTS OF CHANGES IN EQUITY FOR THE YEARS ENDED DECEMBER 31, 2020 AND 2019 (In Thousands of New Taiwan Dollars)

|  |                          | Share Capital      |                                  |                 |               | Retained Earnings |                            | Exchange<br>Differences on<br>Translating | Other Equity Unrealized Gain (Loss) on Financial | Employee                 |                 |               |
|--|--------------------------|--------------------|----------------------------------|-----------------|---------------|-------------------|----------------------------|---|--|--------------------------|-----------------|---------------|
|  | Shares<br>(In Thousands) | Ordinary<br>Shares | Share Capital to be<br>Cancelled | Capital Surplus | Legal Reserve | Special Reserve   | Unappropriated<br>Earnings | Foreign<br>Operations                     | Assets at<br>FVTOCI                              | Unearned<br>Compensation | Treasury Shares | Total Equity  |
| BALANCE AT JANUARY 1, 2019   | 1,840,292                | \$ 18,402,919      | \$ (1,249)                       | \$ (56,241)     | \$ 541,360    | \$ 74,275         | \$ 13,461,892              | \$ (137,132)                              | \$ (746,762)                                     | \$ (19,978)              | \$ (159,061)    | \$ 31,360,023 |
| Legal reserve  | 1                        | •                  | 1                                | •               | 899,301       | 1                 | (899,301)                  | •   | •  | •                        |                 | •             |
| Special reserve  | ,                        | ,                  | ,                                | ,               | •             | 932,777           | (932,777)                  | •   | ,  | ,                        | ,               | ,             |
| Cash dividends distributed by the Company - \$1.20 per share   | •                        | •                  | •                                | •               | •             | 1                 | (2,208,200)                | •   | •  | •                        |                 | (2,208,200)   |
| Net income for the year ended December 31, 2019  | •                        | •                  | •                                | ,               | •             |                   | 3,011,960                  |   | •  | •                        |                 | 3,011,960     |
| Other comprehensive income (loss) for the year ended December 31, 2019, net of income tax                    |                          |                    | 1                                |                 |               |                   | (108,120)                  | (98,748)                                  | 447,722  | "                        |                 | 240,854       |
| Total comprehensive income (loss) for the year ended December 31, 2019                                       |                          |                    |                                  |                 |               |                   | 2,903,840                  | (98,748)                                  | 447,722  |                          |                 | 3,252,814     |
| Issuance of restricted shares for employees  | •                        | •                  | •                                | 508,772         | •             | •                 |                            | •   | ,  | (508,772)                |                 |               |
| Compensation cost of restricted shares for employees   |                          | •                  |                                  | 86,460          |               | •                 | (87,737)                   |   |  | 85,684                   |                 | 84,407        |
| Retirement of restricted shares for employees  | (365)                    | (3,648)            | 1,067                            | 2,581           | •             | •                 |                            |   | •  | •                        | •               | •             |
| Dividends paid to subsidiaries to adjust capital surplus   |                          |                    |                                  | 2,348           |               |                   |                            |   |  |                          |                 | 2,348         |
| BALANCE AT DECEMBER 31, 2019   | 1,839,927                | 18,399,271         | (182)                            | 543,920         | 1,440,661     | 1,007,052         | 12,237,717                 | (235,880)                                 | (299,040)  | (443,066)                | (159,061)       | 32,491,392    |
| Legal reserve  | •                        | •                  | •                                | •               | 301,196       | •                 | (301,196)                  | •   | ,  | ,                        |                 |               |
| Special reserve  | •                        | ,                  | •                                | •               | •             | (385,857)         | 385,857                    |   | ,  | ,                        |                 | ,             |
| 50 Cash dividends distributed by the Company - \$1.20 per share  | •                        | ,                  | •                                | ,               | •             | •                 | (2,207,891)                | •   | ,  | ,                        |                 | (2,207,891)   |
| Net income for the year ended December 31, 2020  | •                        | •                  | •                                | •               | •             | •                 | 5,326,083                  | •   | ,  | ,                        |                 | 5,326,083     |
| Other comprehensive income (loss) for the year ended December 31, 2020, net of income tax                    |                          |                    |                                  |                 |               |                   | (2,737)                    | (150,210)                                 | 440,966  |                          |                 | 288,019       |
| Total comprehensive income (loss) for the year ended December 31, 2020                                       |                          |                    |                                  |                 |               |                   | 5,323,346                  | (150,210)                                 | 440,966  |                          |                 | 5,614,102     |
| Disposal of investments in equity instruments designated as at fair value through other comprehensive income | ٠                        |                    | ٠                                | ,               |               | ٠                 | (29,100)                   |   | 29,100   | •                        | ٠               | •             |
| Issuance of restricted shares for employees  | 16,400                   | 164,002            | i                                | (164,002)       | 1             | ı                 | ī                          | ı   | i  | ı                        | i               |               |
| Compensation cost of restricted shares for employees   | 1                        | •                  | i                                | 1,300           | 1             | •                 | (149)                      | 1   |  | 292,511                  |                 | 293,662       |
| Retirement of restricted shares for employees  | (25)                     | (256)              | (971)                            | 1,227           | •             | •                 |                            |   | ,  | ,                        |                 | ,             |
| Dividends paid to subsidiaries to adjust capital surplus   |                          |                    | 1                                | 2,327           |               |                   |                            |   |  |                          |                 | 2,327         |
| BALANCE AT DECEMBER 31, 2020   | 1,856,302                | \$ 18,563,017      | \$ (1,153)                       | \$ 384,772      | \$ 1,741,857  | \$ 621,195        | \$ 15,408,584              | \$ (386,090)                              | \$ 171,026                                       | \$ (150,555)             | (159,061)       | \$ 36,193,592 |

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

# PARENT COMPANY ONLY STATEMENTS OF CASH FLOWS FOR THE YEARS ENDED DECEMBER 31, 2020 AND 2019

(In Thousands of New Taiwan Dollars)

|  | 2020               |    | 2019                      |
|--|--------------------|----|---------------------------|
| CASH FLOWS FROM OPERATING ACTIVITIES                             |                    |    |                           |
| Income before income tax   | \$<br>5,810,998    | \$ | 3,011,960                 |
| Adjustments for:   | , ,                |    | , ,                       |
| Depreciation expense   | 3,663,325          |    | 2,653,483                 |
| Amortization expense   | 31,076             |    | 31,850                    |
| Expected credit loss recognized                                  | 223                |    | -                         |
| Finance costs  | 242,735            |    | 194,803                   |
| Interest income  | (20,466)           |    | (22,539)                  |
| Dividend income  | (95,559)           |    | (105,188)                 |
| Compensation cost of employee restricted shares                  | 293,662            |    | 84,407                    |
| Share of gain (loss) of subsidiaries and associates              | (153,899)          |    | (142,442)                 |
| Gain on disposal of property, plant and equipment                | (6,994)            |    | (319,124)                 |
| Gain on disposal of investments                                  | -                  |    | (7,410)                   |
| Realized gain on transactions with associates and joint ventures | (16,242)           |    | (13,890)                  |
| Net loss (gain) on foreign currency exchange                     | 46,184             |    | (30,337)                  |
| Changes in operating assets and liabilities                      | 62.205             |    | 120 500                   |
| Notes receivable and trade receivables                           | 62,395             |    | 139,590                   |
| Receivables from related parties                                 | (454,857)          |    | (665,757)                 |
| Other receivables  | 14,164             |    | 25,889                    |
| Inventories Other property assets                                | (143,700)          |    | 5,138,238                 |
| Other current assets Contract liabilities                        | 126,562            |    | 191,831                   |
|  | (9,946)<br>796,250 |    | 83,503<br>(463,325)       |
| Notes payable and trade payables Payables to related parties     | (582,175)          |    | (4,060,942)               |
| Payables for employees' compensation and director's remuneration | 117,850            |    | (1,000,942) $(1,006,661)$ |
| Other payables   | 42,656             |    | 73,797                    |
| Other payables to related parties                                | (15,681)           |    | (8,498)                   |
| Provisions   | (1,573)            |    | (9,250)                   |
| Other current liabilities  | (59,578)           |    | (107,465)                 |
| Net defined benefit liabilities                                  | (182,159)          |    | (137,614)                 |
| Cash generated from operations                                   | <br>9,505,251      |    | 4,528,909                 |
| Interest received  | 21,450             |    | 22,500                    |
| Dividend received  | 95,559             |    | 105,188                   |
| Interest paid  | (265,996)          |    | (212,990)                 |
| Income tax paid  | <br>(838)          |    | (110,049)                 |
| Net cash generated from operating activities                     | <br>9,355,426      | _  | 4,333,558                 |
| CASH FLOWS FROM INVESTING ACTIVITIES                             |                    |    |                           |
| Payments for property, plant and equipment                       | (6,024,071)        |    | (12,741,208)              |
| Proceeds from disposal of property, plant and equipment          | 7,574              |    | 340,012                   |
| Increase in refundable deposits                                  | (62)               |    | (63)                      |
| -  |                    |    | (Continued)               |

# PARENT COMPANY ONLY STATEMENTS OF CASH FLOWS FOR THE YEARS ENDED DECEMBER 31, 2020 AND 2019

(In Thousands of New Taiwan Dollars)

|   | 2020  | 2019  |
|---|---|---|
| Decrease in refundable deposits Payments for intangible assets Decrease in other financial assets   | \$ 98<br>(42,146)   | \$ 10<br>(32,654)<br>18,204   |
| Net cash used in investing activities   | (6,058,607)   | (12,415,699)  |
| CASH FLOWS FROM FINANCING ACTIVITIES Proceeds from short-term borrowings Repayments of short-term borrowings Proceeds from long-term borrowings Repayments of long-term borrowings Proceeds from guarantee deposits received Refund of guarantee deposits received Repayment of leased liabilities Distribution of cash dividends | (1,550,000)<br>7,300,000<br>(4,192,648)<br>193,799<br>(16,946)<br>(79,586)<br>(2,207,891) | 4,000,000<br>(2,450,000)<br>9,776,000<br>(5,955,028)<br>550<br>(150)<br>(90,977)<br>(2,208,200) |
| Net cash (used in) generated from financing activities  | (553,272)   | 3,072,195   |
| EFFECT OF EXCHANGE RATE CHANGES ON THE BALANCE OF CASH AND CASH EQUIVALENTS HELD IN FOREIGN CURRENCIES  | (78,030)  | (70,278)  |
| NET INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS  | 2,665,517   | (5,080,224)   |
| CASH AND CASH EQUIVALENTS AT THE BEGINNING OF THE YEAR  CASH AND CASH EQUIVALENTS AT THE END OF THE YEAR  | 7,631,948<br>\$ 10,297,465  | 12,712,172<br>\$7,631,948   |
| The accompanying notes are an integral part of the parent company only fin  |   | (Concluded)   |

# NOTES TO PARENT COMPANY ONLY FINANCIAL STATEMENTS FOR THE YEARS ENDED DECEMBER 31, 2020 AND 2019

(In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

#### 1. GENERAL INFORMATION

Macronix International Co., Ltd. (the "Company") was incorporated in the Republic of China (ROC) on December 9, 1989 and commenced business in December 1989. The Company operates principally as a designer, manufacturer and supplier of integrated circuits (ICs) and memory chips. The Company also performs design, research and development, consultation and trade of relevant products.

The Company's shares have been listed on the Taiwan Stock Exchange (TWSE) since March 15, 1995.

The financial statements are presented in the Company's functional currency, the New Taiwan dollar.

#### 2. APPROVAL OF FINANCIAL STATEMENTS

The financial statements were approved by the Company's board of directors and were authorized for issue on February 26, 2021.

#### 3. APPLICATION OF NEW, AMENDED AND REVISED STANDARDS AND INTERPRETATIONS

a. Initial application of the amendments to 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

The initial application of the amendments to the IFRSs endorsed and issued into effect by the FSC would not have any material impact on the Company's accounting policies.

b. The IFRSs endorsed by the Financial Supervisory Commission (FSC) for application starting from 2021

| New IFRSs  | Effective Date Announced by IASB                                    |
|--|---|
| Amendments to IFRS 4 "Extension of the Temporary Exemption from Applying IFRS 9" Amendments to IFRS 9, IAS 39, IFRS 7, IFRS 4 and IFRS 16 "Interest Rate Benchmark Reform - Phase 2" | Effective immediately upon promulgation by the IASB January 1, 2021 |
| Amendment to IFRS 16 "Covid-19-Related Rent Concessions"   | June 1, 2020  |

Except for the above impact, as of the date the financial statements were authorized for issue, the Company is continuously assessing the possible impact that the application of other standards and interpretations will have on the Company's financial position and financial performance and will disclose the relevant impact when the assessment is completed.

c. New IFRSs in issue but not yet endorsed and issued into effect by the FSC

|  | <b>Effective Date</b>      |
|--|----------------------------|
| New IFRSs  | Announced by IASB (Note 1) |
| "Annual Improvements to IFRS Standards 2018-2020"                | January 1, 2022 (Note 2)   |
| Amendments to IFRS 3 "Reference to the Conceptual Framework"     | January 1, 2022 (Note 3)   |
| 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, 2023            |
| Amendments to IFRS 17  | January 1, 2023            |
| Amendments to IAS 1 "Classification of Liabilities as Current or | January 1, 2023            |
| Non-current"   |                            |
| Amendments to IAS 16 "Property, Plant and Equipment - Proceeds   | January 1, 2022 (Note 4)   |
| before Intended Use"   |                            |
| Amendments to IAS 37 "Onerous Contracts - Cost of Fulfilling a   | January 1, 2022 (Note 5)   |
| Contract"  |                            |

- Note 1: Unless stated otherwise, the above New IFRSs are effective for annual reporting periods beginning on or after their respective effective dates.
- Note 2: The amendments to IFRS 9 will be applied prospectively to modifications and exchanges of financial liabilities that occur on or after the annual reporting periods beginning on or after January 1, 2022.
- Note 3: The amendments are applicable 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, 2022.
- Note 4: The amendments are applicable to property, plant and equipment that are brought to the location and condition necessary for them to be capable of operating in the manner intended by management on or after January 1, 2021.
- Note 5: The amendments are applicable to contracts for which the entity has not yet fulfilled all its obligations on January 1, 2022.

Except for the above impact, as of the date the financial statements were authorized for issue, the Company is continuously assessing the possible impact that the application of other standards and interpretations will have on the Company's financial position and financial performance and will disclose the relevant impact when the assessment is completed.

#### 4. SUMMARY OF SIGNIFICANT ACCOUNTING POLICY

#### a. Statement of compliance

The parent company only 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 defined benefit liabilities.

The fair value measurements, which are grouped into Levels 1 to 3 based on the degree to which the fair value measurement inputs are observable and based on 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 for an asset or liability.

When preparing its parent company only financial statements, the Company used equity method to account for its investment 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 the parent company only financial statements to be the same with the amounts attributable to the owner of the Company in its consolidated financial statements, adjustments arising from the differences in accounting treatment between parent company only basis and consolidated basis were made to investments accounted for by equity method, share of profit or loss of subsidiaries, share of other comprehensive income of subsidiaries and related equity items, as appropriate, in the parent company only 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 the 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, even if an agreement to refinance, or to reschedule payments, on a long-term basis is completed after the reporting period and before the financial statements are authorized for issue; and
- 3) Liabilities for which the Company does not have an unconditional right to defer settlement for at least 12 months after the reporting period. Terms of a liability that could, at the option of the counterparty, result in its settlement by the issue of equity instruments do not affect its classification.

Assets and liabilities that are not classified as current are classified as non-current.

#### d. Foreign currencies

In preparing the financial statements of the Company, transactions in currencies other than the entity's functional currency (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 in which they arise.

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, in which cases, 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 parent company only financial statements, the functional currencies of the Company and the Group (including subsidiaries and associates that use currency different from the currency of the Company) 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.

#### e. Inventories

Inventories consist of raw materials, supplies, finished goods, merchandise 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. 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 standard cost and adjusted to approximate weighted - average cost on the balance sheet date.

#### f. Investments in subsidiaries

The Company uses the equity method to account for its investments in subsidiaries.

Subsidiaries are the entities controlled by the Company.

Under the equity method, the investment in a subsidiary is initially recognized at cost and the carrying amount is increased or decreased to recognize the Company's share of the profit or loss and other comprehensive income of the subsidiary after the date of acquisition. Besides, the Company also recognizes the Company's share of the change in other equity of the subsidiary.

Changes in the Company's ownership interest in a subsidiary that do not result in the Company losing control of the subsidiary are equity transactions. The Company recognizes directly in equity any difference between the carrying amount of the investment and the fair value of the consideration paid or received.

When the Company's share of losses of a subsidiary exceeds its interest in that subsidiary (which includes any carrying amount of the investment accounted for by the equity method and long-term interests that, in substance, form part of the Company's net investment in the subsidiary), the Company continues recognizing its share of further losses.

Any excess of the cost of acquisition over the Company's share of the net fair value of the identifiable assets and liabilities of a subsidiary that constitutes a business 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 Company's share of the net fair value of the identifiable assets and liabilities of a subsidiary that constitutes a business over the cost of acquisition is recognized immediately in profit or loss.

The Company assesses its investment for any impairment by comparing the carrying amount with the estimated recoverable amount as assessed based on the entire financial statements of the invested company. Impairment loss is recognized when the carrying amount exceeds the recoverable amount. If

the recoverable amount of the investment subsequently increases, the Company recognizes the 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 Company 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 Company 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 Company had directly disposed of the related assets or liabilities.

Profits or losses resulting from downstream transactions are eliminated in full only in the parent's company only financial statements. Profits and losses resulting from upstream transactions and transactions between subsidiaries are recognized only in the parent's company financial statements only to the extent of interests in the subsidiaries that are not related to the Company.

#### g. Property, plant and equipment

Property, plant and equipment are stated at cost, less recognized accumulated depreciation and accumulated impairment loss.

Depreciation on 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 method are reviewed at the end of each reporting period, with the effects of any changes in 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.

#### h. 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 life, residual value, and amortization method are reviewed at the end of each reporting period, with the effect of any changes in estimate 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) Internally-generated intangible assets - research and development expenditure

Expenditure on research activities is recognized as an expense in the period in which it is incurred.

An internally-generated intangible asset arising from the development phase of an internal project is recognized if, and only if, all of the following have been demonstrated:

- a) The technical feasibility of completing the intangible asset so that it will be available for use or sale;
- b) The intention to complete the intangible asset and use or sell it;
- c) The ability to use or sell the intangible asset;

- d) How the intangible asset will generate probable future economic benefits;
- e) The availability of adequate technical, financial and other resources to complete the development and to use or sell the intangible asset; and
- f) The ability to measure reliably the expenditure attributable to the intangible asset during its development.

The amount initially recognized for internally-generated intangible assets is the sum of the expenditure incurred from the date when the intangible asset first meets the recognition criteria listed above. 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.

i. Impairment of property, plant and equipment, right-of-use asset, intangible assets other than goodwill

At the end of each reporting period, the Company reviews the carrying amounts of its property, plant and equipment, right-of-use asset and intangible assets, excluding goodwill, 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 Company 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 with indefinite useful lives and intangible assets not yet available for use are tested for impairment at least annually, and whenever there is an indication that the asset 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 the corresponding asset or cash-generating unit is increased to the revised estimate of its recoverable amount, but only to the extent of the carrying amount that would have been determined had no impairment loss been recognized on the asset or cash-generating unit in prior years. A reversal of an impairment loss is recognized in profit or loss.

#### j. Financial instruments

Financial assets and financial liabilities are recognized when the Company becomes a party to the contractual provisions of the instruments.

Transaction costs that are directly attributable to the acquisition or issue of financial assets and financial liabilities (other than financial assets and financial liabilities at fair value through profit or loss) 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 fair value through profit or loss 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 settlement date basis.

#### a) Measurement category

Financial assets are classified into the following categories: Financial assets measured at amortized cost and investments in equity instruments at FVTOCI.

i. Financial assets measured at amortized cost

Financial assets that meet the following conditions are subsequently measured at amortized cost:

- i) The financial assets are 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 assets 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 measured at amortized cost, including cash and cash equivalents and trade receivables measured 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 a financial asset, except for:

- i) 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 a financial asset; and
- ii) Financial assets that have subsequently become credit-impaired, for which interest income is calculated by applying the effective interest rate to the amortized cost of such a financial asset.

A financial asset is credit impaired when one or more of the following events have occurred:

- i) Significant financial difficulty of the issuer or the borrower;
- ii) Breach of contract, such as a default;
- iii) It is becoming probable that the borrower will enter bankruptcy or undergo a financial reorganization; or
- iv) The disappearance of an active market for that financial asset because of financial difficulties.

Cash equivalents include time deposits with original maturities, 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.

#### ii Investments in equity instruments at FVTOCI

On initial recognition, the Company may make an irrevocable election to designate investments in equity instruments as at FVTOCI. Designation 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 the disposal of the equity investments; instead, they will be transferred to retained earnings.

Dividends on these investments in equity instruments are recognized in profit or loss when the Company's right to receive the dividends is established, unless the dividends clearly represent a recovery of part of the cost of the investment.

#### b) Impairment of financial assets

The Company recognizes a loss allowance for expected credit losses on financial assets measured at amortized cost (including trade receivables).

The Company always recognizes lifetime expected credit losses (i.e. ECLs) for trade receivables and lease receivables. For all other financial instruments, the Company 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 such a financial instrument has not increased significantly since initial recognition, the Company 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 a 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.

For internal credit risk management purposes, the Company determines that the following situations indicate that a financial asset is in default (without taking into account any collateral held by the Company):

- i. Internal or external information show that the debtor is unlikely to pay its creditors.
- ii. When a financial asset is more than 90 days past due unless the Company has reasonable and corroborative information to support a more lagged default criterion.

The Company 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, except for investments in debt instruments that are measured at FVTOCI, for which the loss allowance is recognized in other comprehensive income and does not reduce the carrying amount of the financial asset.

#### c) Derecognition of financial assets

The Company 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 financial asset to another party.

If the Company neither transfers nor retains substantially all the risks and rewards of ownership and continues to control the transferred asset, the Company recognizes its retained interest in the asset and any associated liability for amounts it may have to pay. If the Company retains substantially all the risks and rewards of ownership of a transferred financial asset, the Company continues to recognize the financial asset and also recognizes a collateralized borrowing for the proceeds received.

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. On derecognition of an investment in an equity instrument 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

Equity instruments issued by the Company are recognized at the proceeds received, net of direct issue costs.

Repurchase of the Company'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, issue or cancellation of the Company's own equity instruments.

#### 3) Financial liabilities

#### a) Subsequent measurement

All financial liabilities are measured at amortized cost using the effective interest method.

#### 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.

#### k. Provisions

Provisions are measured at the best estimate of the discounted cash flows of the consideration required to settle the present obligation at the end of the reporting period, taking into account the risks and uncertainties surrounding the obligation.

#### 1. Revenue recognition

The Company identifies contracts with customers, allocates the transaction price to the performance obligations and recognizes revenue when performance obligations are satisfied.

For contracts entered into with the same customer (or related parties of the customer) at or near the same time, those contracts are accounted for as a single contract if the goods or services promised in the contracts are a single performance obligation.

#### 1) Revenue from the sale of goods

Revenue from the sale of goods comes from sales of Memory products and wafer fabrication. Sales of Memory products and wafer fabrication are recognized as revenue when the goods are delivered

to the customer's specific location because it is the time when the customer has full discretion over the manner of distribution and price to sell the goods, and has the primary responsibility for sales to future customers and bears the risks of obsolescence. Trade receivables are recognized concurrently. For Memory products and wafer fabrication, revenue is recognized when the goods are delivered to the customer's specific location, and the transaction price received is recognized as a contract liability until the goods have been delivered to the customer.

The Company does not recognize revenue on materials delivered to subcontractors because this delivery does not involve a transfer of control.

#### 2) Revenue from the rendering of services

As the Company provides rendering services, the related revenue is recognized when services are rendered. Payment for installation services is not due from the customer until the installation services are complete and, therefore, contract assets are recognized over the period in which the installation services are performed. The contract assets are reclassified to trade receivables when the installation is complete.

#### m. Lease

At the inception of a contract, the Company assesses whether the contract is, or contains, a lease.

For a contract that contains a lease component and non-lease components, the Company allocates the consideration in the contract to each component on the basis of the relative stand-alone price and accounts for each component separately.

#### 1) The Company as lessor

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.

When the Company subleases right-of-use assets, the sublease is classified by reference to the right-of-use asset arising from the head lease, not with reference to the underlying asset. However, if the head lease is a short-term lease that the Company, as a lessee, has accounted for applying recognition exemption, the sublease is classified as an operating lease.

Lease payments (less any lease incentives payable) from operating leases are recognized as income on a straight-line basis over the terms of the relevant leases. Initial direct costs incurred in obtaining operating leases are added to the carrying amounts of the underlying assets and recognized as expenses on a straight-line basis over the lease terms. Lease modification that resulted from a negotiation with a lessee is accounted for as a new lease from the effective date of modification.

#### 2) The Company as lessee

The Company recognizes right-of-use assets and lease liabilities for all leases at the commencement date of a lease, except for short-term leases and low-value asset leases accounted for applying a recognition exemption where lease payments are recognized as expenses on a straight-line basis over the lease terms.

Right-of-use assets are initially measured at cost, which comprises the initial measurement of lease liabilities adjusted for lease payments made at or before the commencement date, plus any initial direct costs incurred and an estimate of costs needed to restore the underlying assets, and less any lease incentives received. Right-of-use assets are subsequently measured at cost less accumulated depreciation and impairment losses and adjusted for any remeasurement of the lease liabilities. Right-of-use assets are presented on a separate line in the balance sheets.

Right-of-use assets are depreciated using the straight-line method from the commencement dates to the earlier of the end of the useful lives of the right-of-use assets or the end of the lease terms.

Lease liabilities are initially measured at the present value of the lease payments, which comprise fixed payments, in-substance fixed payments, variable lease payments which depend on an index or a rate, residual value guarantees, the exercise price of a purchase option if the Company is reasonably certain to exercise that option, and payments of penalties for terminating a lease if the lease term reflects such termination, less any lease incentives receivable. The lease payments are discounted using the interest rate implicit in a lease, if that rate can be readily determined. If that rate cannot be readily determined, the Company uses the lessee's incremental borrowing rate.

Subsequently, lease liabilities are measured at amortized cost using the effective interest method, with interest expense recognized over the lease terms. When there is a change in a lease term, a change in the amounts expected to be payable under a residual value guarantee, a change in the assessment of an option to purchase an underlying asset, or a change in future lease payments resulting from a change in an index or a rate used to determine those payments, the Group remeasures the lease liabilities with a corresponding adjustment to the right-of-use-assets. However, if the carrying amount of the right-of-use assets is reduced to zero, any remaining amount of the remeasurement is recognized in profit or loss. For a lease modification that is not accounted for as a separate lease, the Company accounts for the remeasurement of the lease liability by (a) decreasing the carrying amount of the right-of-use asset of lease modifications that decreased the scope of the lease, and recognizing in profit or loss any gain or loss on the partial or full termination of the lease; (b) making a corresponding adjustment to the right-of-use asset of all other lease modifications. Lease liabilities are presented on a separate line in the balance sheets.

#### n. Borrowing costs

Borrowing costs directly attributable to an 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.

Other than stated above, all other borrowing costs are recognized in profit or loss in the year in which they are incurred.

#### o. 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 service.

#### 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 cost, net interest and remeasurement) under defined benefit retirement benefit plans are determined using the projected unit credit method. Service cost (including current service cost) and net interest on the net defined benefit liability are recognized as employee benefit expenses in the period they occur. Remeasurement, comprising actuarial gains and losses, the effect of the changes to the asset ceiling and the return on plan assets (excluding interest), is recognized in other comprehensive income in the period in which they occur. Remeasurement recognized in other comprehensive income is reflected immediately in retain earnings and will not be reclassified to profit or loss.

Net defined benefit liability represents the actual deficit in the Company's defined benefit plan. Any surplus resulting from this calculation is limited to the present value of any refunds from the plans or reductions in future contributions to the plans.

#### 3) Other long-term employee benefits

Other long-term employee benefits are accounted for in the same way as the accounting required for defined benefit plan except that remeasurement is recognized in profit or loss.

#### 4) Termination benefits

A liability for a termination benefit is recognized at the earlier of when the Company can no longer withdraw the offer of the termination benefit and when the Company recognizes any related restructuring costs.

#### p. 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 Company'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 or other equity – employees' unearned compensation. It is recognized as an expense in full at the grant date if vesting immediately.

When restricted shares for employees are issued, other equity - unearned employee benefits are recognized on the grant date, with a corresponding increase in capital surplus - restricted shares for employees.

At the end of each reporting period, the Company revises its estimate of the number of equity instruments expected to vest. The impact of the revision of the original estimates is recognized in profit or loss such that the cumulative expense reflects the revised estimate, with a corresponding adjustment to the capital surplus - employee share options or capital surplus-restricted share option.

# q. Treasury shares

The parent company's shares held by subsidiaries is reclassified to treasury shares from investment accounted for using equity method and recognized with the original investment cost. Cash dividends earned by subsidiaries are write-off with investment income and adjust capital surplus-treasury share transaction.

#### r. Taxation

Income tax expense represents the sum of the tax currently payable and deferred tax.

#### 1) Current tax

Income tax payable (recoverable) is based on taxable profit (loss) for the year determined according to the applicable tax laws of each tax jurisdiction.

According to the Income Tax Law in the ROC, 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 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 carry forward and unused tax credits for purchases of machinery, equipment and technology, research and development expenditures and personnel training 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, except where the Company 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. 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 asset to be recovered. A previously unrecognized deferred tax asset is also reviewed at the end of each reporting period and recognized 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 which the liability is settled or the asset 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 company 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

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, in which case, the current and deferred taxes are also recognized in other comprehensive income or directly in equity, respectively.

# 5. CRITICAL ACCOUNTING JUDGMENTS AND KEY SOURCES OF ESTIMATION UNCERTAINTY

In the application of the Company's accounting policies, management is required to make judgments, estimates 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 estimate is 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 years.

#### a. Write-down of inventory

The net realizable value of inventory is the estimated selling price in the ordinary course of business less the estimated costs of completion and disposal. The estimation of net realizable value was based on

current market conditions and historical experience with product sales of a similar nature. Changes in market conditions may have a material impact on the estimation of net realizable value.

#### b. Recognition and measurement of defined benefit plans

The net defined liabilities (assets) and the resulting defined benefit costs under the defined benefit pension plans are calculated using the projected unit credit method. Actuarial assumptions comprise the discount rates, rates of employee turnover, future salary increase, etc. Changes in economic circumstances and market conditions will affect these assumptions and may have a material impact on the amount of related expense and the liabilities.

#### c. Income taxes

The realizability of deferred tax asset mainly depends on whether sufficient future profit or taxable temporary differences will be available. In cases where the actual future profit generated is less than expected, a material reversal of deferred tax assets may arise, which would be recognized in profit or loss for the period in which such a reversal takes place.

#### 6. CASH AND CASH EQUIVALENTS

|   | December 31    |                       |  |
|---|----------------|-----------------------|--|
|   | 2020           | 2019                  |  |
| Cash on hand Checking accounts and demand deposits Cash equivalents | \$<br>9,084,04 | - \$ -<br>6 6,611,696 |  |
| Time deposits   | 1,213,41       | 9 1,020,252           |  |
|   | \$ 10,297,46   | <u>\$ 7,631,948</u>   |  |

#### 7. FINANCIAL ASSETS AT FAIR VALUE THROUGH OTHER COMPREHENSIVE INCOME

|  | December 31    |              |  |
|--|----------------|--------------|--|
|  | 2020           | 2019         |  |
| Non-current  |                |              |  |
| Investments in equity instruments Domestic investments Listed shares | \$ 1,389,540   | \$ 1,109,115 |  |
| Unlisted shares  | <u>389,504</u> | 331,459      |  |
|  | \$ 1,779,044   | \$ 1,440,574 |  |

These investments in equity instruments are not held for trading. Instead, they are held for medium- to long-term strategic purposes. Accordingly, the management elected to designate these investments in equity instruments as at FVTOCI as they believe that recognizing short-term fluctuations in these investments' fair value in profit or loss would not be consistent with the Company's strategy of holding these investments for long-term purposes.

The Company recognized dividends income of NT\$95,559 thousand and NT\$105,188 thousand for the years ended December 31, 2020 and 2019, respectively. As of December 31, 2020 and 2019, the Company's related investments still held amounted to NT\$1,779,044 thousand and NT\$1,440,574 thousand, respectively.

#### 8. NOTES RECEIVABLE, TRADE RECEIVABLES AND OTHER RECEIVABLES

|  | December 31              |                          |  |
|--|--------------------------|--------------------------|--|
|  | 2020                     | 2019                     |  |
| Trade receivables  |                          |                          |  |
| Total amount of trade receivable measured at amortized cost<br>Less: Allowance for impairment loss | \$ 2,892,039<br>(17,018) | \$ 2,926,906<br>(16,795) |  |
|  | <u>\$ 2,875,021</u>      | \$ 2,910,111             |  |
| Other receivables  |                          |                          |  |
| Tax receivable<br>Others   | \$ 108,750<br>2,189      | \$ 120,450<br>4,798      |  |
|  | \$ 110,939               | <u>\$ 125,248</u>        |  |

#### a. Trade receivables

The average credit period for sales of goods was 60 days.

In determining the recoverability of a trade receivable, the Company evaluates each customer's credibility and financial position and considers any change in the credit quality of the trade receivable since the date credit was initially granted to the end of the reporting period.

The Company measures the loss allowance for trade receivables at an amount equal to lifetime ECLs.

The expected credit losses on trade receivables are estimated using a provision matrix by reference to past default experience with the respective debtors and an analysis of the debtors' current financial positions, adjusted for factors that are specific to the debtors, general economic conditions of the industry in which the debtors operate and an assessment of both the current as well as the forecasted direction of the conditions at the reporting date. The Company estimates expected credit losses based on the number of days for which receivables are past due. As the Company's historical credit loss experience shows significantly different loss patterns for different customer segments, the provision for losses based on past due status of receivables is not further distinguished according to the different segments of the Company's customer base.

The aging of trade receivables is as follows:

|  | December 31         |                     |  |
|--|---------------------|---------------------|--|
|  | 2020                | 2019                |  |
| Neither past due nor impaired            | \$ 2,834,955        | \$ 2,767,426        |  |
| Past due but not impaired Within 60 days | 40,033              | 142,685             |  |
| 61-120 days<br>Over 120 days             | 33                  | -                   |  |
| 5 ver 125 days                           |                     |                     |  |
|  | <u>\$ 2,875,021</u> | <u>\$ 2,910,111</u> |  |

The above aging schedule was based on the past due days from the end of the credit term.

As of December 31, 2020 and 2019, the Company did not hold collateral for most of its receivables.

The movements of the allowance for doubtful trade receivables are as follows:

|   | For the Year Ended December 31 |                   |  |
|---|--------------------------------|-------------------|--|
|   | 2020                           | 2019              |  |
| Balance at January 1<br>Add: Amounts recovered<br>Less: Amounts written off | \$ 16,795<br>223               | \$ 16,812<br>(17) |  |
| Balance at December 31  | <u>\$ 17,018</u>               | <u>\$ 16,795</u>  |  |

#### b. Other receivables

No allowance for impairment loss of other receivables was recognized since the other receivables of the Company were not past due and the Company assessed that there was no uncertainty of recoverability.

#### 9. INVENTORIES

|   | December 31                         |                              |  |
|---|-------------------------------------|------------------------------|--|
|   | 2020                                | 2019                         |  |
| Finished goods and merchandise<br>Work in progress<br>Raw materials | \$ 917,507<br>11,316,910<br>677,600 | \$ 959,606<br>10,780,915<br> |  |
|   | <u>\$ 12,912,017</u>                | <u>\$ 12,768,317</u>         |  |

The costs of inventories recognized as cost of goods sold included inventory loss that resulted from the write-downs of inventory to net realizable value and reversal of inventory loss due to sold of part of the written-down inventory. The amounts were as follows:

|  | For the Year Ended December 31 |              |  |
|--|--------------------------------|--------------|--|
|  | 2020                           | 2019         |  |
| Loss on inventory write-downs (reversal of inventory loss) | <u>\$ (99,103)</u>             | \$ 2,699,600 |  |

# 10. INVESTMENTS ACCOUNTED FOR USING EQUITY METHOD

|                                     | December 31         |                     |  |
|-------------------------------------|---------------------|---------------------|--|
|                                     | 2020                | 2019                |  |
| Investment in subsidiaries          | \$ 2,522,146        | \$ 2,397,392        |  |
| a. Investments in subsidiaries      |                     |                     |  |
|                                     | Decem               | iber 31             |  |
|                                     | 2020                | 2019                |  |
| Macronix (BVI) Co., Ltd. (MXBVI)    | \$ 2,235,463        | \$ 2,121,373        |  |
| Macronix America, Inc. (MXA)        | 174,769             | 163,382             |  |
| Hui Ying Investment Ltd. (Hui Ying) | 83,782              | 75,708              |  |
| Run Hong Investment Ltd. (Run Hong) | 14,113              | 14,598              |  |
| Mxtran Inc. (Mxtran)                | 14,019              | 22,331              |  |
|                                     | <u>\$ 2,522,146</u> | <u>\$ 2,397,392</u> |  |

#### Proportion of Ownership and Voting Rights

|                      | voing rights |         |  |  |
|----------------------|--------------|---------|--|--|
|                      | December 31  |         |  |  |
| Name of Subsidiaries | 2020         | 2019    |  |  |
| MXBVI                | 100.00%      | 100.00% |  |  |
| MXA                  | 100.00%      | 100.00% |  |  |
| Hui Ying             | 100.00%      | 100.00% |  |  |
| Run Hong             | 100.00%      | 100.00% |  |  |
| Mxtran               | 90.43%       | 90.43%  |  |  |

The investments in subsidiaries accounted for using the equity method and the share of profit or loss and other comprehensive income of those investments for the years ended December 31, 2020 and 2019 were based on the subsidiaries' financial statements which have been audited for the same years.

# 11. PROPERTY, PLANT AND EQUIPMENT

|  | December 31   |  |  | 31   |  |
|--|---|--|--|--|--|
|  |   |  | 202  | 20   | 2019   |
| Assets used by the Company   |   |  | <u>\$ 31,0</u>   | <u>16,511</u> <u>\$</u>  | 28,904,312   |
|  |   | Years  | Ended December 31  | , 2020   |  |
|  | Balance,<br>Beginning of<br>Year  | Additions  | Disposals  | Reclassification   | Balance, End of<br>Year  |
| Cost   |   |  |  |  |  |
| Freehold land Buildings Machinery equipment Research and development equipment Transportation equipment Leasehold improvements Miscellaneous equipment Advance payments and construction in progress | \$ 598,076<br>24,948,657<br>91,635,490<br>3,564,430<br>26,781<br>3,230<br>1,120,248<br>9,821,555<br>131,718,467 | \$ -<br>-<br>-<br>-<br>-<br>5,689,291<br>\$ 5,689,291  | \$ 750<br>204,065<br>9,444<br>7,240<br>147,782<br>\$ 369,281                   | \$ 275,330<br>9,422,251<br>612,204<br>1,200<br>                                  | \$ 598,076<br>25,223,237<br>100,853,676<br>4,167,190<br>20,741<br>3,230<br>1,078,664<br>5,089,153<br>137,033,967               |
| Accumulated depreciation and impairment  |   |  |  |  |  |
| Buildings Machinery equipment Research and development equipment Transportation equipment Leasehold improvements Miscellaneous equipment   | 20,514,366<br>79,413,703<br>1,860,125<br>17,079<br>2,540<br>1,006,342<br>102,814,155                            | \$ 408,194<br>2,845,772<br>256,188<br>2,672<br>538<br>63,148<br>\$ 3,576,512                   | \$ 750<br>204,065<br>9,444<br>6,660<br>147,782<br>\$ 368,701                   | \$ -<br>199,636<br>(203,686)<br>-<br>-<br>(460)<br><u>\$ (4,510)</u>             | 20,921,810<br>82,255,046<br>1,903,183<br>13,091<br>3,078<br>921,248<br>106,017,456   |
| Carrying amount at December 31, 2020   | \$ 28,904,312   |  |  |  | <u>\$ 31,016,511</u>   |
|  |   | Years  | Ended December 31  | . 2019   |  |
|  | Balance,<br>Beginning of<br>Year  | Additions  | Disposals  | Reclassification   | Balance, End of<br>Year  |
| Cost   |   |  |  |  |  |
| Freehold land Buildings Machinery equipment Research and development equipment Transportation equipment Leasehold improvements Miscellaneous equipment Advance payments and construction in progress | \$ 598,076<br>24,667,411<br>87,236,825<br>3,775,547<br>22,050<br>3,230<br>1,093,957<br>4,135,257<br>121,532,353 | \$ -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | \$ 31,832<br>2,338,064<br>51,683<br>1,140<br>58,300<br>\$\frac{1}{2},481,019\$ | \$ 313,078<br>6,736,729<br>(159,434)<br>5,871<br>- 84,591<br>(6,980,835)<br>\$ - | \$ 598,076<br>24,948,657<br>91,635,490<br>3,564,430<br>26,781<br>3,230<br>1,120,248<br>9,821,555<br>131,718,467<br>(Continued) |

|  | Years Ended December 31, 2019   |  |   |                         |   |
|--|---|--|---|-------------------------|---|
|  | Balance,<br>Beginning of<br>Year  | Additions  | Disposals   | Reclassification        | Balance, End of<br>Year   |
| Accumulated depreciation and impairment  |   |  |   |                         |   |
| Buildings Machinery equipment Research and development equipment Transportation equipment Leasehold improvements Miscellaneous equipment | \$ 20,150,462<br>79,576,059<br>1,929,783<br>15,643<br>2,001<br>1,028,736<br>102,702,684 | \$ 389,970<br>1,921,392<br>221,219<br>2,576<br>539<br>35,906<br>\$ 2,571,602 | \$ 26,066<br>2,322,942<br>51,683<br>1,140<br>58,300<br>\$ 2,460,131 | \$ 239,194<br>(239,194) | \$ 20,514,366<br>79,413,703<br>1,860,125<br>17,079<br>2,540<br>1,006,342<br>102,814,155 |
| Carrying amount at December 31, 2019   | <u>\$ 18,829,669</u>  |  |   |                         | \$ 28,904,312<br>(Concluded)  |

For the years ended December 31, 2020 and 2019, the Company assessed that no indication of an impairment loss was present; therefore, no impairment assessment was performed

The above items of property, plant and equipment are depreciated on a straight-line basis over their following estimated useful lives as follows:

|    | • •  | - 1 *      |   |    |
|----|------|------------|---|----|
| Bι | 11 l | <b>d</b> 1 | n | CC |
| Dι | ш    | uı         | ш | ೭೦ |
|    |      |            |   |    |

| Main buildings                     | 31 years  |
|------------------------------------|-----------|
| Electronic equipment               | 11 years  |
| Facility equipment                 | 15 years  |
| Machinery equipment                | 11 years  |
| Research and development equipment | 11 years  |
| Transportation equipment           | 5 years   |
| Leasehold improvements             | 6 years   |
| Miscellaneous equipment            | 3-6 years |

Property, plant and equipment pledged as collateral for bank borrowings are set out in Note 31.

#### 12. LEASE ARRANGEMENTS

# a. Right-of-use assets

|  | December 31                                   |                                      |
|--|---|--------------------------------------|
|  | 2020  | 2019                                 |
| Carrying amounts   |   |                                      |
| Freehold land Buildings Machinery equipment Transportation equipment Miscellaneous equipment | \$ 901,793<br>23,711<br>9,445<br>2,632<br>500 | \$ 934,665<br>32,323<br>3,135<br>499 |
|  | <u>\$ 938,081</u>                             | \$ 970,622                           |

|  | For the Year Ended December 31 |                   |
|--|--------------------------------|-------------------|
|  | 2020                           | 2019              |
| Additions to right-of-use assets                               | \$ 55,579                      | \$ 1,574          |
| Depreciation charge for right-of-use assets                    |                                |                   |
| Freehold land  | \$ 69,642                      | \$ 69,984         |
| Buildings  | 8,847                          | 8,382             |
| Machinery equipment  | 4,861                          | -                 |
| Transportation equipment                                       | 1,463                          | 1,519             |
| Miscellaneous equipment  | 2,000                          | <u>1,996</u>      |
|  | <u>\$ 86,813</u>               | \$ 81,881         |
| Income from the subleasing of right-of-use assets (included in |                                |                   |
| other income)  | <u>\$ (4,036)</u>              | <u>\$ (3,744)</u> |

Except for the recognized depreciation, the Company did not have impairment of right-of-use assets for the years ended December 31, 2020 and 2019.

#### b. Lease liabilities

|                        | December 31             |                         |
|------------------------|-------------------------|-------------------------|
|                        | 2020                    | 2019                    |
| Carrying amounts       |                         |                         |
| Current<br>Non-current | \$ 79,341<br>\$ 873,701 | \$ 72,307<br>\$ 906,049 |

Range of discount rate for lease liabilities was as follows:

|                          | December 31 |             |
|--------------------------|-------------|-------------|
|                          | 2020        |             |
| Freehold land            | 1.67%-1.73% | 1.67%       |
| Buildings                | 1.03%-1.22% | 1.07%-1.22% |
| Machinery equipment      | 1.05%       | -           |
| Transportation equipment | 1.03%-1.22% | 1.22%       |
| Miscellaneous equipment  | 1.03%-1.22% | 1.22%       |

#### c. Material lease-in activities and terms

The Company also leased certain land and buildings for the use as plant and office in a period of one to twenty years. The Company does not have bargain purchase options to acquire the leasehold land and buildings at the end of the lease terms. In addition, the Company is prohibited from subleasing or transferring all or any portion of the underlying assets without the lessor's consent.

# d. Other lease information

|  | For the Year Ended December 31 |                         |
|--|--------------------------------|-------------------------|
|  | 2020                           | 2019                    |
| Expenses relating to short-term leases Expenses relating to low-value asset leases   | <u>\$</u>                      | \$ 2,100<br>\$ 60       |
| Expenses relating to variable lease payments not included in the measurement of lease liabilities  Total cash outflow for leases | \$ 7,249<br>\$ (103,106)       | \$ 6,562<br>\$ (99,699) |

The Company leases certain office buildings which qualify as short-term leases and certain office equipment which qualifies as low-value asset leases. The Company has elected to apply the recognition exemption and thus, did not recognize right-of-use assets and lease liabilities for these leases.

#### 13. INTANGIBLE ASSETS

|                                       | ,                                | Year Ended Dec                  | ember 31, 2020                     |                                |
|---------------------------------------|----------------------------------|---------------------------------|------------------------------------|--------------------------------|
| Item                                  | Balance,<br>Beginning of<br>Year | Additions                       | Disposals                          | Balance,<br>End of Period      |
| Cost                                  |                                  |                                 |                                    |                                |
| Software<br>Others                    | \$ 89,973<br>13,000<br>102,973   | \$ 42,146<br><u>\$ 42,146</u>   | \$ 43,323<br>13,000<br>\$ 56,323   | \$ 88,796<br>                  |
| Accumulated amortization              |                                  |                                 |                                    |                                |
| Software<br>Others                    | 47,497<br>11,917<br>59,414       | \$ 29,993<br>1,083<br>\$ 31,076 | \$ 43,323<br>13,000<br>\$ 56,323   | 34,167                         |
| Carrying amounts at December 31, 2020 | \$ 43,559                        |                                 |                                    | \$ 54,629                      |
|                                       |                                  | Year Ended Dec                  | ember 31, 2019                     |                                |
| Item                                  | Balance,<br>Beginning of<br>Year | Additions                       | Disposals                          | Balance,<br>End of Period      |
| Cost                                  |                                  |                                 |                                    |                                |
| Software<br>Others                    | \$ 70,578<br>13,000<br>83,578    | \$ 32,654<br>\$ 32,654          | \$ 13,259<br>\$ 13,259             | \$ 89,973<br>13,000<br>102,973 |
| Accumulated amortization              |                                  |                                 |                                    |                                |
| Software<br>Others                    | 33,240<br>7,583<br>40,823        | \$ 27,516<br>4,334<br>\$ 31,850 | \$ 13,259<br><u>-</u><br>\$ 13,259 | 47,497<br>11,917<br>59,414     |
| Carrying amounts at December 31, 2019 | <u>\$ 42,755</u>                 |                                 |                                    | \$ 43,559                      |

Intangible assets are amortized on a straight-line basis over their estimated useful lives as follows:

| Software | 3 years |
|----------|---------|
| Others   | 3 years |

# 14. OTHER FINANCIAL ASSETS

|  | December 31         |                     |
|--|---------------------|---------------------|
|  | 2020                | 2019                |
| Non-current  |                     |                     |
| Restricted time deposits (Note 31) Refundable deposits | \$ 157,665<br>4,102 | \$ 157,665<br>4,137 |
|  | <u>\$ 161,767</u>   | <u>\$ 161,802</u>   |

# 15. OTHER ASSETS

|             | December 31 |                   |
|-------------|-------------|-------------------|
|             | 2020        | 2019              |
| Current     |             |                   |
| Prepayments | \$ 99,553   | <u>\$ 226,115</u> |

# 16. BORROWINGS

a. Short-term borrowings

|                           | December 31 |              |
|---------------------------|-------------|--------------|
|                           | 2020        | 2019         |
| Line of credit borrowings | <u>\$</u>   | \$ 1,550,000 |
| Interest rate             | -           | 0.98%-1.10%  |

# b. Long-term borrowings

|  | December 31          |               |
|--|----------------------|---------------|
|  | 2020                 | 2019          |
| Secured borrowings from financial institutions   | \$ 10,291,437        | \$ 10,237,531 |
| Unsecured borrowings from financial institutions | 5,880,000            | 2,840,000     |
| · ·  | 16,171,437           | 13,077,531    |
| Less: Current portion                            | 5,412,007            | 3,267,200     |
| Less: Arrangement fee                            | 22,555               | 36,001        |
| -  |                      |               |
| Long-term borrowings                             | <u>\$ 10,736,875</u> | \$ 9,774,330  |
|  |                      |               |
| Interest rate                                    | 0.93%-1.79%          | 1.23%-1.97%   |

|  |   | Decem         | iber 31      |
|--|---|---------------|--------------|
| <b>Borrowing Type</b>  | Repayment Terms                               | 2020          | 2019         |
| Secured bank borrowing denominated in NT\$                     | From June 2019 to February 2024               | \$ 7,700,000  | \$ 4,600,000 |
| Secured syndicated loan denominated in NT\$                    | From December 2017 to January 2021            | 2,175,812     | 4,818,662    |
| Unsecured bank borrowings denominated in NT\$                  | From March 2020 to March 2022                 | 1,200,000     | -            |
| Unsecured bank borrowing denominated in NT\$                   | From June 2019 to June 2021                   | 960,000       | 1,200,000    |
| Unsecured bank borrowings denominated in NT\$                  | From December 2020 to<br>December 2023        | 600,000       | -            |
| Unsecured bank borrowings denominated in NT\$                  | From August 2020 to February 2023             | 600,000       | -            |
| Unsecured bank borrowings denominated in NT\$                  | From August 2020 to August 2023               | 500,000       | -            |
| Unsecured bank borrowings denominated in NT\$                  | From August 2020 to August 2023               | 500,000       | -            |
| Unsecured bank borrowings denominated in NT\$                  | From June 2020 to June 2023                   | 500,000       | -            |
| Unsecured bank borrowing denominated in NT\$                   | From April 2019 to April 2022                 | 450,000       | 600,000      |
| Unsecured bank borrowings                                      | From June 2020 to June 2023                   | 300,000       | -            |
| denominated in NT\$ Secured bank borrowing                     | From September 2017 to                        | 218,750       | 343,750      |
| denominated in NT\$ Secured bank borrowing                     | September 2022<br>From September 2018 to      | 196,875       | 459,375      |
| denominated in NT\$ Unsecured bank borrowings                  | September 2021<br>From July 2019 to July 2022 | 150,000       | 300,000      |
| denominated in NT\$ Unsecured bank borrowings                  | From September 2018 to                        | 120,000       | 240,000      |
| denominated in NT\$ Unsecured bank borrowings                  | September 2021<br>Pay off in December 2020    | -             | 300,000      |
| denominated in NT\$ Unsecured bank borrowings                  | Pay off in September 2020                     | -             | 200,000      |
| denominated in NT\$ Secured bank borrowing denominated in NT\$ | Pay off in January 2020                       | -             | 15,744       |
| Less: Current portion  |   | 5,412,007     | 3,267,200    |
| Less: Arrangement fee  |   | 22,555        | 36,001       |
| Total long-term borrowings                                     |   | \$ 10,736,875 | \$ 9,774,330 |

To repay the vested liabilities, purchase equipment and machinery and increase operating funds, the Company signed a 5-year syndicated loan agreement with 7 financial institutions in November 2017 with a total amount of NT\$7.7 billion. In June 2020, the Company canceled the loan facility of NT\$1.1 billion. In January 2021, the Company repaid all of the loan in advance.

To purchase equipment or machinery, the Company has entered into a 5-year syndicated loan agreement with 9 financial institutions including the Taiwan Cooperative Bank in January 2019 with the total amount of NT\$8 billion. The Company provided notes used as refundable guarantees for syndicated loan mentioned above that will be cancelled upon termination of the guarantee.

In addition, the Company's floating borrowing rate on the above borrowing is reset every one to three months.

The loan agreement requires the maintenance of a current ratio, debt ratio, and interest coverage ratio based on the Company's semi-annual and annual financial statements. For the year ended December 31, 2020 and 2019, the Company had met the financial ratio covenants.

The details of assets pledged as collateral for long-term loans are set in Note 31.

#### 17. NOTES PAYABLE AND TRADE PAYABLES

|              | Decem        | December 31  |  |
|--------------|--------------|--------------|--|
|              | 2020         | 2019         |  |
| ade payables | \$ 2,940,247 | \$ 2,140,288 |  |

The Company has financial risk management policies in place to ensure that all payables are paid within the pre-agreed upon credit terms.

#### 18. OTHER PAYABLES

|                                      | December 31 |           | 1  |           |
|--------------------------------------|-------------|-----------|----|-----------|
|                                      |             | 2020      |    | 2019      |
| Payables for bonuses                 | \$          | 252,351   | \$ | 250,753   |
| Payables for maintenance and repairs |             | 192,006   |    | 219,965   |
| Payables for donations               |             | 177,957   |    | 98,144    |
| Payables for patents                 |             | 129,333   |    | 165,357   |
| Payables for spare parts             |             | 77,155    |    | 62,763    |
| Payables for insurances              |             | 69,414    |    | 74,497    |
| Others                               | _           | 467,880   |    | 474,212   |
|                                      | <u>\$</u>   | 1,366,096 | \$ | 1,345,691 |

#### 19. OTHER LIABILITIES

|   | December 31                              |                               |
|---|--|-------------------------------|
|   | 2020                                     | 2019                          |
| Current   |  |                               |
| Refund liabilities Guarantee deposits Receipts under custody Others | \$ 124,522<br>160,721<br>31,238<br>7,068 | \$ 184,232<br>30,793<br>7,681 |
|   | <u>\$ 323,549</u>                        | <u>\$ 222,706</u>             |
| Non-current   |  |                               |
| Guarantee deposits  | <u>\$ 19,410</u>                         | <u>\$ 10,272</u>              |

#### 20. PROVISIONS

|                       | December 31     |                 |
|-----------------------|-----------------|-----------------|
|                       | 2020            | 2019            |
| Current               |                 |                 |
| Employee benefits (a) | <u>\$ 3,283</u> | <u>\$ 4,856</u> |

a. The provision for employee benefits represents vested long service leave entitlements accrued.

#### 21. RETIREMENT BENEFIT PLANS

#### a. Defined contribution plans

The Company adopted a pension plan under the Labor Pension Act (LPA), which is a state-managed defined contribution plan. Under on the LPA, the Company makes monthly contributions to employees' individual pension accounts at 6% of monthly salaries and wages.

#### b. Defined benefit plans

The defined benefit plan adopted by the Company in accordance with the Labor Standards Act 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 Company contributes amounts equal to 2% 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. Before the end of each year, the Company assesses the balance in the pension fund. If the amount of the balance in the pension fund is inadequate to pay retirement benefits for employees who conform to retirement requirements in the next year, the Company is required to fund the difference in one appropriation that should be made before the end of March of the next year. The pension fund is managed by the Bureau of Labor Funds, Ministry of Labor (the "Bureau"); the Company has no right to influence the investment policy and strategy.

The amounts in the balance sheets in respect of the Company's defined benefit plans were as follows:

|  | December 31               |                           |  |
|--|---------------------------|---------------------------|--|
|  | 2020                      | 2019                      |  |
| Present value of defined benefit obligation<br>Fair value of plan assets | \$ 1,898,790<br>(942,837) | \$ 1,903,616<br>(791,902) |  |
| Net defined benefit liability  | \$ 955,953                | <u>\$ 1,111,714</u>       |  |

Movements in net defined benefit liability were as follows:

|                              | Present Value<br>of Defined<br>Benefit<br>Obligation | Fair Value of the Plan Assets | Net Defined<br>Benefit<br>Liabilities<br>(Assets) |
|------------------------------|--|-------------------------------|---|
| Balance at January 1, 2019   | \$ 1,890,484   | \$ 710,318                    | \$ 1,180,166                                      |
| Service cost                 |  |                               |   |
| Current service cost         | 5,296  | -                             | 5,296   |
| Net interest expense         | 23,330   | -                             | 23,330  |
| Return on plan assets        |  | 8,772                         | (8,772)   |
| Recognized in profit or loss | 28,626   | 8,772                         | 19,854  |
|                              |  |                               | (Continued)                                       |

|  | Present Value<br>of Defined<br>Benefit<br>Obligation | Fair Value of<br>the Plan Assets | Net Defined<br>Benefit<br>Liabilities<br>(Assets) |
|--|--|----------------------------------|---|
| Remeasurement                            |  |                                  |   |
| Return on plan assets                    | \$ -   | \$ 13,955                        | \$ (13,955)                                       |
| Actuarial loss - change in financial     |  |                                  | , ,   |
| assumptions                              | 91,727   | <u>-</u>                         | 91,727  |
| Recognized in other comprehensive income | 91,727   | 13,955                           | 77,772  |
| Contributions from the employer          | _  | 166,078                          | (166,078)   |
| Benefits paid                            | (107,221)  | (107,221)                        | <u> </u>  |
| Balance at December 31, 2019             | 1,903,616  | 791,902                          | 1,111,714   |
| Service cost                             |  |                                  |   |
| Current service cost                     | 5,015  | -                                | 5,015   |
| Net interest expense                     | 15,013   | -                                | 15,013  |
| Return on plan assets                    | <del>_</del>   | 6,241                            | (6,241)   |
| Recognized in profit or loss             | 20,028   | 6,241                            | 13,787  |
| Remeasurement                            |  |                                  |   |
| Return on plan assets                    | -  | 26,677                           | (26,677)  |
| Actuarial loss - experience adjustments  | 26,798   | -                                | 26,798  |
| Actuarial loss - change in financial     |  |                                  |   |
| assumptions                              | 39,079   | -                                | 39,079  |
| Actuarial loss - change in demographic   |  |                                  |   |
| assumptions                              | (5,967)  |                                  | (5,967)   |
| Recognized in other comprehensive income | 59,910   | 26,677                           | 33,233  |
| Contributions from the employer          |  | 202,781                          | (202,781)   |
| Benefits paid                            | (84,764)   | <u>(84,764</u> )                 |   |
| Balance at December 31, 2020             | \$ 1,898,790   | <u>\$ 942,837</u>                | \$ 955,953<br>(Concluded)                         |

An analysis by function of the amounts recognized in profit or loss in respect of the defined benefit plans is as follows:

|                                     | For the Year Ended December 31 |                  |
|-------------------------------------|--------------------------------|------------------|
|                                     | 2020                           | 2019             |
| Operating costs                     | \$ 7,381                       | \$ 10,688        |
| Selling and marketing expenses      | 797                            | 1,051            |
| General and administration expenses | 2,478                          | 3,630            |
| Research and development expenses   | 3,131                          | 4,485            |
|                                     | <u>\$ 13,787</u>               | <u>\$ 19,854</u> |

Through the defined benefit plans under the Labor Standards Act, the Company 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/corporate 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 salary 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 |       |
|---|-------------|-------|
|   | 2020        | 2019  |
| Discount rate                           | 0.50%       | 0.80% |
| Expected rate of salary increase        | 3.00%       | 3.00% |
| Expected return on plan assets increase | 0.50%       | 0.80% |

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:

|                                  | For the Year Ended December 31 |                      |
|----------------------------------|--------------------------------|----------------------|
|                                  | 2020                           | 2019                 |
| Discount rate                    |                                |                      |
| 0.50% increase                   | \$ (67,172)                    | \$ (101,540)         |
| 0.50% decrease                   | \$ 71,260                      | \$ 109,956           |
| Expected rate of salary increase |                                |                      |
| 0.50% increase                   | <u>\$ 97,993</u>               | <u>\$ 126,190</u>    |
| 0.50% decrease                   | <u>\$ (92,509)</u>             | <u>\$ (117,415</u> ) |

The sensitivity analysis presented above may not be representative of the actual change in the present value of the defined benefit obligation as it is unlikely that the change in assumptions would occur in isolation of one another as some of the assumptions may be correlated.

|  | December 31      |            |
|--|------------------|------------|
|  | 2020             | 2019       |
| The expected contributions to the plan for the next year | <u>\$ 56,154</u> | \$ 30,384  |
| The average duration of the defined benefit obligation   | 7.3 years        | 11.1 years |

The Company maintains a separate executive pension plan and the net periodic pension costs were NT\$6,835 thousand and NT\$8,651 thousand for the years ended December 31, 2020 and 2019, respectively.

Movements in net defined benefit liability were as follows:

|   | Present Value<br>of Defined<br>Benefit<br>Obligation |
|---|--|
| Balance at January 1, 2019                        | \$ 459,987   |
| Service cost                                      |  |
| Current service cost                              | 2,928  |
| Net interest expense                              | 5,723  |
| Recognized in profit or loss                      | 8,651  |
| Remeasurement                                     |  |
| Actuarial loss - experience adjustments           | 21,594   |
| Actuarial loss - changes in financial assumptions | 8,629  |
| Recognized in other comprehensive income          | 30,223   |
| Benefits paid                                     | <del></del>  |
| Balance at December 31, 2019                      | 498,861  |
| Service cost                                      |  |
| Current service cost                              | 2,860  |
| Net interest expense                              | 3,975  |
| Recognized in profit or loss                      | 6,835  |
| Remeasurement                                     |  |
| Actuarial loss (gain) - experience adjustments    | (34,790)   |
| Actuarial loss - changes in financial assumptions | 4,294  |
| Recognized in other comprehensive income          | (30,496)   |
| Benefits paid                                     |  |
| Balance at December 31, 2020                      | <u>\$ 475,200</u>                                    |

An analysis by function of the amounts recognized in profit or loss in respect of the defined benefit plans is as follows:

|                                     | For the Year Ended December 31 |          |
|-------------------------------------|--------------------------------|----------|
|                                     | 2020                           | 2019     |
| General and administration expenses | <u>\$ 6,835</u>                | \$ 8,651 |

The actuarial valuations of the present value of the defined benefit obligation of executive pension plan were carried out by qualified actuaries. The significant assumptions used for the purposes of the actuarial valuations were as follows:

|   | December 31 |       |
|---|-------------|-------|
|   | 2020        | 2019  |
| Discount rate                           | 0.50%       | 0.80% |
| Expected rate of salary increase        | -           | -     |
| Expected return on plan assets increase | 0.50%       | 0.80% |

#### 22. EQUITY

#### a. Share capital

#### Ordinary shares

|   | December 31   |               |
|---|---------------|---------------|
|   | 2020          | 2019          |
| Number of shares authorized (in thousands)            | 6,550,000     | 6,550,000     |
| Shares authorized                                     | \$ 65,500,000 | 65,500,000    |
| Number of shares issued and fully paid (in thousands) | 1,856,302     | 1,839,927     |
| Share issued  | \$ 18,563,017 | \$ 18,399,271 |

Fully paid ordinary shares, which have a par value of \$10, carry one vote per share and carry a right to dividends.

A total of 864,704 thousand shares and 650,000 thousand shares of the Company's authorized shares were reserved for the issuance of convertible bonds and employee share options.

# b. Capital surplus

|   | December 31                       |                           |
|---|-----------------------------------|---------------------------|
|   | 2020                              | 2019                      |
| May be used to offset a deficit, distributed as cash dividends, or transferred to share capital (1) |                                   |                           |
| Donations Treasury share transactions   | \$ 37<br>33,096                   | \$ 37<br>30,769           |
|   | \$ 33,133                         | <u>\$ 30,806</u>          |
| May be used to offset a deficit only  |                                   |                           |
| Issuance of ordinary shares<br>Changes in percentage of ownership interests in subsidiaries (2)     | \$ 145,378<br>4,609<br>\$ 149,987 | \$ -<br>4,609<br>\$ 4,609 |
| May not be used for any purpose   |                                   |                           |
| Employee restricted shares  | <u>\$ 201,652</u>                 | <u>\$ 508,505</u>         |

- 1) Such capital surplus may be used to offset a deficit; in addition, when the Company has no deficit, such capital surplus may be distributed as cash dividends or transferred to share capital (limited to a certain percentage of the Company's capital surplus and once a year).
- 2) Such capital surplus arises from changes in capital surplus of subsidiaries accounted for by using the equity method.

#### c. Retained earnings and dividend policy

The Company's Articles of Incorporation, state that, where the Company made profit in a fiscal year, the profit shall be first utilized for paying taxes, offsetting losses of previous years, setting aside a legal reserve 10% of the remaining profit (until the amount of the legal reserve equals the amount of the Company's paid-in capital), 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 Company's board of directors as the basis for proposing a distribution plan, which should be resolved in the shareholders' meeting for the distribution of dividends and bonuses to shareholders. For the policies on the distribution of employees' compensation and remuneration of directors stated by the Company's Articles of Incorporation, refer to "Employees' compensation and remuneration of directors" in Note 24 (g).

The Company is classified under the capital intensive industry. In accordance with the long-term financial program of the Company, the above shareholders' dividends can be retained as undistributed earnings, and then be distributed in the future, as determined by the shareholders at the Annual General Meeting.

Distributions shall be prioritized to take the form of cash dividends. Nevertheless, it still depends on the Company's financial, sales or operating condition. The Company's Articles of Incorporation provide that no more than 50% of the current year's total amount of distributable earnings can be distributed in the form of share dividends.

The appropriation of earnings to a legal reserve shall be made until the legal reserve equals the Company's paid-in capital. The legal reserve may be used to offset any deficit. If the Company has no deficit and the legal reserve has exceeded 25% of the Company's paid-in capital, the excess may be transferred to capital or distributed in cash.

Items referred under Rule No. 1010047490 issued by the FSC and in 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 Company.

The appropriation of earnings for 2019 and 2018, which had been proposed by the Company's general meeting of shareholders on May 27, 2020 and June 18, 2019, respectively. The appropriation and dividends per share were as follows:

|                                  | For the Year Ended December 31 |                            |
|----------------------------------|--------------------------------|----------------------------|
|                                  | 2019                           | 2018                       |
| Legal reserve<br>Special reserve | \$\ 301,196<br>\$\ (385,857)   | \$ 899,301<br>\$ 032,777   |
| Cash dividends                   | \$ (383,837)<br>\$ 2,207,891   | \$ 932,777<br>\$ 2,208,200 |
| Cash dividends per share         | \$ 1.2                         | \$ 1.2                     |

#### d. Special reserve

|   | For the Year Ended December 31 |                     |
|---|--------------------------------|---------------------|
|   | 2020                           | 2019                |
| Beginning at January 1 Appropriations in respect of | \$ 1,007,052                   | \$ 74,275           |
| Treasury shares (reversal)                          | (36,882)                       | 48,882              |
| Reversal of the debits to other equity items        | (348,975)                      | 883,895             |
| Balance at December 31                              | <u>\$ 621,195</u>              | <u>\$ 1,007,052</u> |

According to the shareholding ratio, the special reserve is calculated based on the difference between the market value of the parent company's stock holdings and the book value, and the special reserve will be partially reversed on market price.

# e. Other equity items

# 1) Exchange differences on translating foreign operations

|  | For the Year Ended December 31 |                          |
|--|--------------------------------|--------------------------|
|  | 2020                           | 2019                     |
| Balance at January 1<br>Exchange differences on translating foreign operations | \$ (235,880)<br>(150,210)      | \$ (137,132)<br>(98,748) |
| Balance at December 31   | <u>\$ (386,090</u> )           | <u>\$ (235,880)</u>      |

# 2) Unrealized valuation gain on/(loss) on financial assets at FVTOCI

|   | For the Year Ended December 31 |                     |
|---|--------------------------------|---------------------|
|   | 2020                           | 2019                |
|   |                                |                     |
| Balance at January 1                                    | \$ (299,040)                   | \$ (746,762)        |
| Recognized for the year                                 |                                |                     |
| Unrealized gain/(loss) - equity instrument              | 338,470                        | 238,750             |
| Share from associates accounted for using the equity    |                                |                     |
| method  | 102,496                        | 208,972             |
| Other comprehensive income recognized for the year      | 141,926                        | (299,040)           |
| Cumulative unrealized gain/(loss) of equity instruments |                                |                     |
| transferred to retained earnings due to disposal in     |                                |                     |
| subsidiaries  | 29,100                         | _                   |
|   |                                |                     |
| Balance at December 31                                  | <u>\$ 171,026</u>              | <u>\$ (299,040)</u> |

# 3) Employee unearned benefit

In the meetings of shareholders on June 16, 2016 and June 18, 2019, the shareholders approved a restricted share plan for employees. Refer to Note 27 for the information on restricted shares issued.

|   | For the Year Ended December 31 |                     |
|---|--------------------------------|---------------------|
|   | 2020                           | 2019                |
| Balance at January 1                    | \$ (443,066)                   | \$ (19,978)         |
| Grant by this year                      | _                              | (508,772)           |
| Share-based payment expenses recognized | 293,662                        | 84,407              |
| Adjustments for change of turnover rate | (1,151)                        | 1,277               |
| Balance at December 31                  | <u>\$ (150,555)</u>            | <u>\$ (443,066)</u> |

# f. Treasury shares

The Company's shares held by its subsidiaries at December 31, 2020 and 2019 were as follows:

| Name of Subsidiary       | Number of<br>Shares Held<br>(In Thousands) | Carrying<br>Amount | Market Price |
|--------------------------|--|--------------------|--------------|
| <u>December 31, 2020</u> |  |                    |              |
| Hui Ying                 | 1,957                                      | \$ 159,061         | \$ 82,765    |
| December 31, 2019        |  |                    |              |
| Hui Ying                 | 1,957                                      | \$ 159,061         | \$ 72,786    |

The Company's shares held by subsidiaries are regarded as treasury shares; shareholders' rights are retained, except for the rights to participate in any share issuances for cash and to vote.

#### 23. REVENUE

# a. Segmentation of revenue from contracts with customers

|    |  | For the Year Ended December 31                     |  |
|----|--|--|--|
|    |  | 2020   | 2019   |
|    | Product type   |  |  |
|    | Flash ROM Foundry Others                                 | \$ 20,153,644<br>16,022,159<br>2,794,731<br>25,434 | \$ 18,731,911<br>13,290,888<br>2,196,612<br>16,558 |
| b. | Contract balances  | \$ 38,995,968  For the Year En                     | \$ 34,235,969<br>ded December 31                   |
|    | Contract liabilities (classified as current liabilities) | \$ 87,155  | 2019<br>\$ 97,101                                  |

The changes in the contract liability balances primarily result from the timing difference between the satisfaction of the performance obligations and the customer's payment.

The Company recognized revenue from the beginning balance of contract liabilities as follows:

|  | For the Year Ended December 31 |                  |
|--|--------------------------------|------------------|
|  | 2020                           | 2019             |
| From the beginning balance of contract liabilities |                                |                  |
| Sale of goods                                      | <u>\$ 96,861</u>               | <u>\$ 13,278</u> |

# 24. NET PROFIT (LOSS) FROM CONTINUING OPERATIONS

| a. ] | Interest | income |
|------|----------|--------|
|      |          |        |

|    |   | For the Year Ended December 31   |                                  |
|----|---|----------------------------------|----------------------------------|
|    |   | 2020                             | 2019                             |
| h  | Bank deposits Other income  | <u>\$ 20,466</u>                 | \$ 22,539                        |
| υ. | Other meditie   |                                  |                                  |
|    |   | For the Year End<br>2020         | 2019                             |
|    | Dividend income<br>Others   | \$ 95,559<br>21,281              | \$ 105,188<br>26,616             |
|    |   | \$ 116,840                       | <u>\$ 131,804</u>                |
| c. | Other gains and losses  |                                  |                                  |
|    |   | For the Year End                 |                                  |
|    |   | 2020                             | 2019                             |
|    | Net foreign exchange gains (losses) Gains on disposal of investments Other losses                       | \$ 71,859<br>-<br>(434)          | \$ (62,996)<br>7,410<br>(1,198)  |
|    |   | <u>\$ 71,425</u>                 | <u>\$ (56,784)</u>               |
| d. | Finance costs   |                                  |                                  |
|    |   | For the Year End                 | ad Dagambay 21                   |
|    |   | 2020                             | 2019                             |
|    | Interest on loans Interest on lease liabilities Less: Amounts included in the cost of qualifying assets | \$ 248,416<br>16,211<br>(21,892) | \$ 215,886<br>16,832<br>(37,915) |
|    |   | \$ 242,735                       | <u>\$ 194,803</u>                |
|    | Information about capitalized interest was as follows:  |                                  |                                  |
|    |   | For the Year End                 | ed December 31                   |
|    |   | 2020                             | 2019                             |
|    | Capitalized interest Capitalization rate  | \$ 21,892<br>1.79%               | \$ 37,915<br>1.67%               |

#### e. Depreciation and amortization

|  | For the Year Ended December 31 |                         |
|--|--------------------------------|-------------------------|
|  | 2020                           | 2019                    |
| An analysis of depreciation by function<br>Operating costs<br>Operating expenses | \$ 3,255,402<br>407,923        | \$ 2,295,217<br>358,266 |
|  | \$ 3,663,325                   | \$ 2,653,483            |
| An analysis of amortization by function<br>Operating costs<br>Operating expenses | \$ 14,039<br>17,037            | \$ 10,447<br>21,403     |
|  | <u>\$ 31,076</u>               | <u>\$ 31,850</u>        |

# f. Employee benefits expense

|  | For the Year Ended December 31 |              |
|--|--------------------------------|--------------|
|  | 2020                           | 2019         |
| Post-employment benefits (Note 21)                   |                                |              |
| Defined contribution plans                           | \$ 194,661                     | \$ 192,348   |
| Defined benefit plans                                | 20,622                         | 28,505       |
| 1  | 215,283                        | 220,853      |
| Share-based payments                                 | -,                             | - ,          |
| Equity-settled                                       | 293,662                        | 84,407       |
| Other employee benefits                              | 6,301,205                      | 5,597,242    |
|  |                                |              |
| Total employee benefits expense                      | \$ 6,810,150                   | \$ 5,902,502 |
|  |                                |              |
| An analysis of employee benefits expense by function |                                |              |
| Operating costs                                      | \$ 3,275,037                   | \$ 3,005,845 |
| Operating expenses                                   | 3,535,113                      | 2,896,657    |
|  |                                |              |
|  | \$ 6,810,150                   | \$ 5,902,502 |

# g. Employees' compensation and remuneration of directors

In compliance with the Articles of Incorporation, the Company accrued employees' compensation and remuneration of directors at the rates of 15% and no higher than 2%, respectively, of net profit before income tax, employees' compensation, and remuneration of directors. For the years ended December 31, 2020 and 2019, the estimated employees' compensation and the remuneration of directors resolved by the board of directors on February 26, 2021 and February 17, 2020, respectively, were as follows:

#### <u>Amount</u>

|  | For the Year Ended December 31 |                         |
|--|--------------------------------|-------------------------|
|  | 2020                           | 2019                    |
| Employees' compensation<br>Remuneration of directors | \$\_1,050,180<br>\\$\_140,024  | \$ 544,330<br>\$ 72,577 |

If there is a change in the amounts after the annual parent company only financial statements are authorized for issue, the differences are recorded as a change in the accounting estimate.

There is no difference between the actual amount of employees' compensation and remuneration of directors paid and the amount recognized in the financial statements for the years ended December 31, 2019 and 2018.

Information on the employees' compensation and remuneration of directors resolved by the Company's board of directors in 2020 and 2019 is available at the Market Observation Post System website of the Taiwan Stock Exchange.

#### 25. INCOME TAXES RELATING TO CONTINUING OPERATIONS

a. Major components of income tax expense (benefit) recognized in profit or loss:

|   | For the Year Ended December 31 |               |
|---|--------------------------------|---------------|
|   | 2020                           | 2019          |
| Current tax                                     |                                |               |
| In respect of the current year                  | \$ 38,349                      | \$ -          |
| Adjustments for prior year                      | -                              | (74,208)      |
| Deferred tax                                    |                                |               |
| In respect of the current year                  | 446,566                        | <u>74,208</u> |
| Income tax expense recognized in profit or loss | <u>\$ 484,915</u>              | <u>\$</u>     |

A reconciliation of accounting loss and income tax expenses is as follows:

|   | For the Year Ended December 31 |              |
|---|--------------------------------|--------------|
|   | 2020                           | 2019         |
| Income before tax from continuing operations          | \$ 5,810,998                   | \$ 3,011,960 |
| Income tax expense calculated at the statutory rate   | \$ 1,162,200                   | \$ 602,392   |
| Non-deductible expenses in determining taxable income | 7,083                          | 6,791        |
| Non-taxable income                                    | (18,213)                       | (22,389)     |
| Deductible temporary differences                      | (1,087,055)                    | (586,794)    |
| Unrecognized investment credits                       | (25,666)                       | _            |
| Recognized loss carryforwards                         | 446,566                        | 74,208       |
| Adjustments for prior year                            |                                | (74,208)     |
| Income tax expense recognized in profit or loss       | <u>\$ 484,915</u>              | <u>\$</u>    |

In July 2019, the president of the ROC announced the amendments to the Statute for Industrial Innovation, which stipulate that the amounts of unappropriated earnings in 2018 and thereafter that are reinvested in the construction or purchase of certain assets or technologies are allowed as deduction when computing the income tax on unappropriated earnings. When calculating the tax on unappropriated earnings, the Company only deducts the amount of the unappropriated earnings that has been reinvested in capital expenditure.

#### b. Current tax assets and liabilities

|  | December 31      |                 |
|--|------------------|-----------------|
|  | 2020             | 2019            |
| Current tax assets Tax refund receivable   | <u>\$ 3,816</u>  | <u>\$ 2,978</u> |
| Current tax liabilities Income tax payable | <u>\$ 38,349</u> | <u>\$ -</u>     |

#### c. Deferred tax assets and liabilities

The Company offset certain deferred tax assets and deferred tax liabilities which met the offset criteria.

The movements of deferred tax assets and deferred tax liabilities were as follows:

# For the year ended December 31, 2020

| <b>Deferred Tax Assets</b>           | Opening<br>Balance  | Recognized in Profit or Loss    | <b>Closing Balance</b> |
|--------------------------------------|---------------------|---------------------------------|------------------------|
| Loss carryforwards                   | <u>\$ 1,104,876</u> | <u>\$ (446,566)</u>             | <u>\$ 658,310</u>      |
| For the year ended December 31, 2019 |                     |                                 |                        |
| <b>Deferred Tax Assets</b>           | Opening<br>Balance  | Recognized in<br>Profit or Loss | <b>Closing Balance</b> |
| Loss carryforwards                   | \$ 1,179,084        | <u>\$ (74,208)</u>              | <u>\$ 1,104,876</u>    |

d. Deductible temporary differences, unused loss carryforwards and unused investment credits for which no deferred assets have been recognized in the parent company only balance sheets

|  | December 31          |                     |
|--|----------------------|---------------------|
|  | 2020                 | 2019                |
| Loss carryforwards Expire in 2026  | <u>\$</u>            | <u>\$ 1,789,017</u> |
| Investment credits Research and development expenditures Purchase of smart machines expenditures | \$ 200,880<br>23,538 | \$ 200,028          |
|  | <u>\$ 224,418</u>    | \$ 200,028          |
| Deductible temporary differences   | \$ 25,555,069        | \$ 26,375,606       |

The unrecognized investment credits will expire in 2021.

# e. Information about unused investment credits and unused loss carry-forwards

As of December 31, 2020, the investment tax credits comprised of:

| Law and Statutes                  | Tax Credit Source                       | Remaining<br>Creditable<br>Amount | Expiry Year |
|-----------------------------------|---|-----------------------------------|-------------|
| Statute for Industrial Innovation | Research and development expenditures   | \$ 180,327                        | 2020        |
| Statute for Industrial Innovation | Research and development expenditures   | 200,880                           | 2021        |
| Statute for Industrial Innovation | Purchase of smart machines expenditures | 23,538                            | 2021        |
|                                   |   | <u>\$ 404,745</u>                 |             |

Loss carryforwards as of December 31, 2020 comprised of:

| Unused Tax Amount    | Expiry Year  |
|----------------------|--------------|
| \$ 83,611<br>574,699 | 2025<br>2026 |
| <u>\$ 658,310</u>    |              |

# f. Income tax assessments

The Company's tax returns through 2018 have been assessed by the tax authorities.

#### 26. EARNINGS PER SHARE

**Unit: NT\$ Per Share** 

|  | For the Year End   | For the Year Ended December 31 |  |  |  |
|--|--------------------|--------------------------------|--|--|--|
|  | 2020               | 2019                           |  |  |  |
| Basic earnings per share<br>Diluted earnings per share | \$ 2.90<br>\$ 2.84 | \$ 1.64<br>\$ 1.61             |  |  |  |

The income and weighted average number of ordinary shares outstanding in the computation of earnings per share from continuing operations were as follows:

# **Net Income for the Year**

|   | For the Year Ended December 31 |              |  |
|---|--------------------------------|--------------|--|
|   | 2020                           | 2019         |  |
| Income for the year attributable to owners of the Company | \$ 5,326,083                   | \$ 3,011,960 |  |

Weighted average number of ordinary shares outstanding (in thousand shares):

|  | For the Year Ended December 31 |                   |  |
|--|--------------------------------|-------------------|--|
|  | 2020                           | 2019              |  |
| Weighted average number of ordinary shares in computation of basic earnings per share  | 1,839,322                      | 1,831,825         |  |
| Effect of potentially dilutive ordinary shares: Restricted shares to employees Employees' compensation or bonus issue to employees | 10,105<br>27,631               | 6,243<br>29,428   |  |
| Weighted average number of ordinary shares in computation of diluted earnings per share  | 1,877,058                      | <u> 1,867,496</u> |  |

Since the Company offered to settle compensation or bonuses paid to employees in cash or shares, the Company 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. SHARE-BASED PAYMENT ARRANGEMENTS

#### Restricted share plan for employees

Information on share plan for employees were as follows:

| Ammuovod         | Cuant Shawas            | Board of<br>Directors<br>Approved<br>Grant Shares |                   |                    | Issued               |      |         |
|------------------|-------------------------|---|-------------------|--------------------|----------------------|------|---------|
| Approved<br>Date | Grant Shares (Thousand) | (Thousand)  | <b>Grant Date</b> | <b>Issued Date</b> | Shares<br>(Thousand) | Fair | r Value |
| 2016/06/16       | 123,535                 | 58,971  | 2016/10/25        | 2017/01/03         | 57,476               | \$   | 4.73    |
| 2019/06/18       | 35,294                  | 16,815  | 2019/10/21        | 2020/06/16         | 16,400               |      | 32.55   |

To meet the vesting conditions, an employee has to meet performance and other conditions over the vesting period, as follows:

- 1) If an employee remains employed by the Company for one year after the grant date; and has a current year's performance rating of "successful" (or higher) /A0 or A1, 40% of the restricted shares will be vested:
- 2) If an employee remains employed by the Company for two years after the grant date; and has a current year's performance rating of "successful" (or higher) /A0 or A1, 30% of the restricted shares will be vested;
- 3) If an employee remains employed by the Company for three years after grant date; and has a current year's performance rating of "successful" (or higher) /A0 or A1, 30% of the restricted shares will be vested.

In addition to the vesting conditions, the limitations are as follows:

- 1) Employees, except for inheritance, should not sell, transfer, pledge, donate or in any other way dispose of the shares.
- 2) The shares should be held in a share trust.
- 3) Except for the above two paragraphs, the other rights of the restricted share plan for employees, which include, but are not limited to, dividends, bonuses, the distribution rights of the legal reserve and capital surplus, share options of cash capital, voting rights of shareholders, etc., are the same as the Company's issued ordinary shares.
- 4) The dividends of restricted share plan for employees are not restricted by existing conditions.
- 5) When a new share is returned in cash due to the Company's capital reduction, the refund of the vested capital loss shall be under custodian trust. In accordance with the issuance method, such capital and shares shall be granted if the vesting conditions for new restricted employee shares are met. The vested shares are granted to employees without interests; if the vested conditions are not met, such cash will be recovered by the Company (applicable to the shareholders' resolution of restricted share plan in the 2019 shareholders' meeting)

When employees do not reach the vesting conditions of restricted share plan for employees during the year, the Company will recover and cancel the shares.

Information on restricted share plan for employees was as follows:

|                        | Number of Shares (In Thousands) For the Year Ended December 31 |         |  |
|------------------------|--|---------|--|
|                        |  |         |  |
|                        | 2020   | 2019    |  |
| Balance at January 1   | 23   | 7,787   |  |
| Issued                 | 16,400   | -       |  |
| Vested                 | (6,465)  | (7,506) |  |
| Forfeited (Note)       | (122)  | (258)   |  |
| Balance at December 31 | 9,836  | 23      |  |

Note: The forfeited shares for the year ended December 31, 2020 include 115 thousand shares which will be cancelled and 7 thousand shares which were already cancelled, and the forfeited shares for the year ended December 31, 2019 include 18 thousand shares which will be cancelled and 240 thousand shares which were already cancelled.

For the years ended December 31, 2020 and 2019, the compensation costs recognized were NT\$293,662 thousand and NT\$84,407 thousand, respectively.

#### 28. CAPITAL MANAGEMENT

The Company manages its capital to ensure that the Company will be able to operate under the premises of going concerns and growth while maximizing the return to shareholders through the optimization of the debt and equity balance.

The Company's strategy for managing the capital structure is to lay out the plan of product development and expand the market share considering the growth and the magnitude of industry and further developing an integral plan founded on the required capacity, capital outlay, and magnitude of assets in long-term development. Ultimately, considering the risk factors such as the fluctuation of the industry cycle and the

life cycle of products, the Company determines the optimal capital structure by estimating the profitability of products, operating profit ratio, and cash flow based on the competitiveness of products.

The management of the Company periodically examines the capital structure and contemplates on the potential costs and risks involved while exerting different financial tools. In general, the Company implements prudent strategy of risk management.

#### 29. FINANCIAL INSTRUMENTS

a. Fair value of financial instruments not measured at fair value

The management considers that the carrying amounts of financial assets and financial liabilities recognized in the financial statements approximate their fair values or their fair values cannot be reliably measured.

- b. Fair value of financial instruments measured at fair value on a recurring basis
  - 1) Fair value hierarchy

#### December 31, 2020

|  | Level 1             | Level 2   | Level 3                | Total                          |
|--|---------------------|-----------|------------------------|--------------------------------|
| Financial assets at FVTOCI Equity securities Securities listed in ROC Securities unlisted in ROC | \$ 1,389,540<br>    | \$ -<br>  | \$ -<br><u>389,504</u> | \$ 1,389,540<br><u>389,504</u> |
|  | <u>\$ 1,389,540</u> | <u>\$</u> | <u>\$ 389,504</u>      | \$ 1,779,044                   |
| December 31, 2019  |                     |           |                        |                                |
|  | Level 1             | Level 2   | Level 3                | Total                          |
| Financial assets at FVTOCI Equity securities   | ф 1 100 115         | œ.        | , do                   | Ф.1.100.115                    |
| Securities listed in ROC<br>Securities unlisted in ROC   | \$ 1,109,115<br>    | \$ -<br>- | \$ -<br>331,459        | \$ 1,109,115<br>331,459        |
|  | <u>\$ 1,109,115</u> | <u>\$</u> | <u>\$ 331,459</u>      | <u>\$ 1,440,574</u>            |

There were no transfers between Level 1 and Level 2 in the current and prior years.

#### 2) Reconciliation of Level 3 fair value measurements of financial assets

|   | Financial Assets at FVTOCI     |            |  |  |
|---|--------------------------------|------------|--|--|
|   | For the Year Ended December 31 |            |  |  |
| Financial Assets  | 2020                           | 2019       |  |  |
| Balance at January 1 Total gain recognized in other comprehensive (unrealized | \$ 331,459                     | \$ 267,075 |  |  |
| gain on financial assets at FVTOCI)   | 58,045                         | 64,384     |  |  |
| Balance at December 31  | \$ 389,504                     | \$ 331,459 |  |  |

#### 3) Valuation used in Level 3 fair value measurement

The fair values of equity securities listed in the ROC and other countries was arrived at using either the asset-based approach or based on the multiplier evaluated in the active market by the market approach and adjustments of liquidity.

#### c. Categories of financial instruments

|   | December 31                |                            |  |
|---|----------------------------|----------------------------|--|
|   | 2020                       | 2019                       |  |
| Financial assets                                  |                            |                            |  |
| Measured at amortized cost (1) Measured at FVTOCI | \$ 15,669,993<br>1,779,044 | \$ 12,550,331<br>1,440,574 |  |
| Financial liabilities                             |                            |                            |  |
| Measured at amortized cost (2)                    | 25,193,792                 | 23,525,343                 |  |

- 1) The balances included financial assets measured at amortized cost, which comprise cash and cash equivalents, trade receivables (including receivables from related parties), other receivables and other financial assets.
- 2) The balances included financial liabilities measured at amortized cost, which comprise, notes payable and trade payables (including payables to related parties), other payables (including other payables to related parties), payable for purchases of equipment, guarantee deposits and long-term loans (including current portion).

#### d. Financial risk management objectives and policies

The Company manages its exposure to risks relating to the operations through market risk, credit risk, and liquidity risk with the objective to reduce the potentially adverse effects the market uncertainties may have on its financial performance.

The plans for material treasury activities are reviewed by management in accordance with procedures required by relevant regulations or internal controls. During the implementation of such plans, the Company must comply with certain treasury procedures that provide guiding principles for overall financial risk management.

#### 1) Market risk

The Company's activities exposed it primarily to the financial risks of changes in foreign currency exchange rates (see (a) below), interest rates (see (b) below), and other price risk (see (c) below).

#### a) Foreign currency risk

The Company had foreign currency sales and purchases, which exposed the Company to foreign currency risk. Exchange rate exposures were managed within approved policy parameters utilizing foreign exchange forward contracts.

#### Sensitivity analysis

The Company was mainly exposed to the USD and JPY.

The sensitivity analysis of foreign currency risk focuses mainly on exchange rates for transactions in currencies other than the entity's functional currency (i.e. foreign currencies) which are recognized at the rates of exchange prevailing at the end of each reporting period.

The following table details the Company's sensitivity to a 3% and 10% increase in the New Taiwan dollars (i.e. the functional currency) against the USD and JPY, respectively. The sensitivity rates used are 3% and 10% when reporting foreign currency risk internally to key management personnel.

|     | USD I                             | <b>USD Impact</b> |                    | JPY Impact        |  |  |
|-----|-----------------------------------|-------------------|--------------------|-------------------|--|--|
|     | For the Year Ended<br>December 31 |                   | For the Year Ended |                   |  |  |
|     |                                   |                   | December 31        |                   |  |  |
|     | 2020                              | 2019              | 2020               | 2019              |  |  |
| ase | \$ 110,542                        | <u>\$ 110,197</u> | <u>\$ 158,596</u>  | <u>\$ 116,377</u> |  |  |

Pre-tax profit decrease

#### b) Interest rate risk

The Company is exposed to interest rate risk from outstanding bank loans. Interest rates of the Company's long-term bank loans are floating, and changes in interest rates would affect the future cash flows but not the fair value.

The sensitivity analysis of interest is performed based on the financial liabilities exposed to cash flow interest rate risk at the end of each reporting period.

If interest rates had been 50 basis points higher/lower, the Company's pre-tax profit for the years ended December 31, 2020 and 2019 would decreased/increased by NT\$80,744 thousand and NT\$65,388 thousand, respectively.

#### c) Other price risk

The Company was exposed to equity price risk through its investments in listed equity securities. Equity investments are held for strategic rather than trading purposes. The Company does not actively trade these investments.

#### Sensitivity analysis

A sensitivity analysis of equity prices is performed based on the fair values of equity investments at the end of each reporting period.

If equity prices had been 10% higher/lower, equity for the years ended December 31, 2020 and 2019 would have increased/decreased by NT\$177,904 thousand and NT\$144,058 thousand, as a result of the changes in fair value of available-for-sale investments.

#### 2) Credit risk

Credit risk refers to the risk that counterparty will default on its contractual obligations resulting in financial loss to the Company. The Company's exposure to credit risk mainly arises from trade receivables - operating, bank deposits, and other financial instruments. Credit risk is managed separately for business related and financial related exposures.

#### Business related credit risk

In order to maintain the credit quality of trade receivables, the Company has established procedures to monitor and limit exposure to credit risk on trade receivables.

Credit evaluation is performed in the consideration of the relevant factors such as financial condition, external and internal credit scoring, historical experience, and economic conditions, which may affect the customer's paying ability. The Company holds some of the credit enhancements such as prepayments and collateral to mitigate its credit risks.

Trade receivables consisted of a large number of customers, spread across diverse industries and geographical areas.

As of December 31, 2020 and 2019, the Company's ten largest customers accounted for 65% and 61% of its total trade receivables (including receivables from related parties), respectively. The Company believed that the concentration of credit risk is relatively insignificant for the remaining trade receivables.

#### Financial credit risk

The Company's exposure to financial credit risk which pertained to bank deposits and other financial instruments were evaluated and monitored by Corporate Treasury function. The Company only deals with creditworthy counterparties and banks so that no significant credit risk was identified.

# 3) Liquidity risk

The objective of liquidity risk management is to ensure the Company has sufficient liquidity to fund its business requirements of cash and cash equivalents and the unused of financing facilities associated with existing operations.

The table below summarizes the maturity profile of the Company's financial liabilities based on contractual and undiscounted payments, including principal and estimated interest.

#### December 31, 2020

|   | On Demand or<br>Less than<br>1 Year  | 1-3 Years                    | 3-5 Years               | 5+ Years             | Total                                    |
|---|--------------------------------------|------------------------------|-------------------------|----------------------|--|
| Non-derivative financial liabilities                          |                                      |                              |                         |                      |  |
| Non-interest bearing<br>Lease liabilities<br>Interest bearing | \$ 10,721,340<br>94,523<br>5,626,283 | \$ -<br>175,632<br>8,046,662 | \$ 160,363<br>2,891,576 | \$ -<br>630,297<br>- | \$ 10,721,340<br>1,060,815<br>16,564,521 |
|   | \$ 16,442,146                        | \$ 8,222,294                 | \$ 3,051,939            | \$ 630,297           | <u>\$ 28,346,676</u>                     |

Additional information about the maturity analysis for lease liabilities:

|                   | Less than 1<br>Year | 1-5 Years  | 5-10 Years        | 10-15 Years | 15-20 Years | 20+ Years |
|-------------------|---------------------|------------|-------------------|-------------|-------------|-----------|
| Lease liabilities | <u>\$ 94,523</u>    | \$ 335,995 | <u>\$ 376,402</u> | \$ 245,069  | \$ 8,826    | <u>\$</u> |

#### December 31, 2019

|   | On Demand or<br>Less than<br>1 Year  | 1-3 Years                    | 3-5 Years                    | 5+ Years   | Total                          |
|---|--------------------------------------|------------------------------|------------------------------|------------|--------------------------------|
| Non-derivative financial liabilities                          |                                      |                              |                              |            |                                |
| Non-interest bearing<br>Lease liabilities<br>Interest bearing | \$ 10,369,812<br>87,968<br>3,491,961 | \$ -<br>172,589<br>7,162,099 | \$ -<br>159,151<br>2,920,035 | \$ 675,783 | \$ 10,369,812<br>1,095,491<br> |
|   | \$ 13,949,741                        | \$ 7,334,688                 | \$ 3,079,186                 | \$ 675,783 | \$ 25,039,398                  |

Additional information about the maturity analysis for lease liabilities:

|                   | Less than 1      |            |            |             |             |             |
|-------------------|------------------|------------|------------|-------------|-------------|-------------|
|                   | Year             | 1-5 Years  | 5-10 Years | 10-15 Years | 15-20 Years | 20+ Years   |
| Lease liabilities | <u>\$ 87,968</u> | \$ 331,740 | \$ 381,878 | \$ 293,905  | <u>\$</u>   | <u>\$ -</u> |

The amounts included above for variable interest rate instruments for both non-derivative financial assets and liabilities was subject to change if changes in variable interest rates were to differ from those estimates of interest rates determined at the end of the reporting period.

#### 30. TRANSACTIONS WITH RELATED PARTIES

In addition to those disclosed in other notes, detail of transactions between the Company and related parties are disclosed below.

a. Related parties and their relationships associated with the Company:

| Related Parties                                | Relationship with the Company                 |  |  |  |
|--|---|--|--|--|
| Macronix America, Inc. (MXA)                   | Subsidiary                                    |  |  |  |
| Mxtran Inc. (Mxtran)                           | Subsidiary                                    |  |  |  |
| Macronix (Hong Kong) Co., Limited (MXHK)       | Indirect subsidiary                           |  |  |  |
| Macronix Europe N.V. (MXE)                     | Indirect subsidiary                           |  |  |  |
| Macronix Pte Ltd (MPL)                         | Indirect subsidiary                           |  |  |  |
| Macronix (Asia) Limited (MX Asia)              | Indirect subsidiary                           |  |  |  |
| MegaChips Corporation (MegaChips)              | Key management personnel                      |  |  |  |
| Ardentec Corporation (Ardentec)                | The Company is its major management authority |  |  |  |
| TM Technology, Inc. (TMTECH)                   | Others (Note)                                 |  |  |  |
| Etron Technology, Inc. (Etron)                 | Others  |  |  |  |
| Macronix Education Foundation (MXIC Education) | Others  |  |  |  |

Note: As Etron Technology, Inc. disposed of its shares in TM Technology, Inc. on October 22, 2019, the Company lost its significant influence over TM Technology, Inc.

# b. Operating revenues

|       |            |                                 | For the Year En | ded December 31 |
|-------|------------|---------------------------------|-----------------|-----------------|
|       | Line Items | Related Parties Categories/Name | 2020            | 2019            |
| Sales |            | Key management personnel        |                 |                 |
|       |            | MegaChips                       | \$ 16,101,433   | \$ 13,236,202   |
|       |            | Subsidiaries                    |                 |                 |
|       |            | MXHK                            | 5,778,319       | 4,440,347       |
|       |            | Others                          | 1,257,181       | 1,265,699       |
|       |            | Others                          | <del>_</del>    | 365             |
|       |            |                                 | \$ 23,136,933   | \$ 18,942,613   |

Sale prices to foreign related parties were negotiated based on those charged to ultimate customers and were not comparable to those with external customers as foreign related parties were the primary regional distributors. Sales to domestic related parties were priced at a markup on the unit cost of the product, price that was not comparable to those with other customers.

Sales prices for the related parties were not comparable to those for external customers as the Company sells the specific purpose product. The sales terms to the related parties were between 30 to 60 days after monthly closing, similar to those with external customers.

#### c. Purchases

|                                 | For the Year En | ded December 31 |
|---------------------------------|-----------------|-----------------|
| Related Parties Categories/Name | 2020            | 2019            |
| Key management personnel        |                 |                 |
| MegaChips                       | \$ 6,209,245    | \$ 2,800,371    |

Materials purchased from related parties were for manufacturing process. The payment term was 30 days after monthly closing and after acceptance of materials.

# d. Receivables from related parties

|                                       |   | December 31                                       |   |  |  |
|---------------------------------------|---|---|---|--|--|
| Line Items                            | Related Parties Categories/Name                             | 2020 2019   |   |  |  |
| Receivables from related parties, net | Subsidiaries MXHK Others Key management personnel MegaChips | \$ 587,454<br>98,670<br>1,647,427<br>\$ 2,333,551 | \$ 731,345<br>137,251<br><u>973,076</u><br>\$ 1,841,672 |  |  |
| Other receivables                     | Subsidiaries MXHK Mxtran Key management personnel MegaChips | \$ 89<br>113<br><u>30</u>                         | \$ 120<br>119   |  |  |
|                                       |   | <u>\$ 232</u>                                     | <u>\$ 239</u>   |  |  |

The outstanding trade receivables from related parties are unsecured. For the year ended December 31, 2020 and 2019, no impairment loss was recognized for trade receivables from related parties.

# e. Payables to related parties

|                                   |  | Decem                                  | ber 31                                 |
|-----------------------------------|--|--|--|
| <b>Line Items</b>                 | Related Parties Categories/Name  | 2020                                   | 2019                                   |
| Payables to related parties       | Key management personnel MegaChips The Company is its major management authority | \$ 4,062,278<br>99,149                 | \$ 4,653,909<br>66,303                 |
|                                   |  | \$ 4,161,427                           | \$ 4,720,212                           |
| Other payables to related parties | Subsidiaries MXA MXE MX Asia Others  | \$ 58,659<br>45,740<br>25,574<br>6,852 | \$ 66,988<br>49,364<br>26,128<br>7,467 |
|                                   |  | <u>\$ 136,825</u>                      | <u>\$ 149,947</u>                      |

The outstanding trade payables from related parties are unsecured and will be settled in cash.

# f. Other transactions with related parties

|                       |   | For the Year End        | led December 31     |
|-----------------------|---|-------------------------|---------------------|
| <b>Line Items</b>     | Related Parties Categories/Name               | 2020                    | 2019                |
| Manufacturing expense | The Company is its major management authority |                         |                     |
|                       | Ardentec                                      | \$ 306,514              | \$ 255,716          |
|                       | Key management personnel                      | <del>-</del>            | 9,254               |
|                       |   | \$ 306,514              | <u>\$ 264,970</u>   |
| Operating expense     | Subsidiaries                                  |                         |                     |
|                       | MXA   | \$ 206,028              | \$ 205,571          |
|                       | MXE   | 134,553                 | 149,678             |
|                       | MXAsia  | 100,854                 | 108,412             |
|                       | Others  | 22,727                  | 50,143              |
|                       | Others  | 23,119                  | 22,837              |
|                       |   | <u>\$ 487,281</u>       | \$ 536,641          |
| IT service revenue    | Subsidiaries<br>Mxtran                        | <u>\$ 318</u>           | <u>\$ 321</u>       |
| Rental revenue        | Subsidiaries<br>Mxtran                        | \$ 43 <u>5</u>          | \$ 43 <u>5</u>      |
|                       | MAHAH   | <u>ψ <del>1</del>33</u> | <u>Ψ <b>T</b>33</u> |

The manufacturing expense and operating expense of related parties were comparable to those with other vendors. The payment term was between 30 to 90 days after monthly closing.

The Company leases offices to its subsidiaries (rentals are classified under other gains and losses). The amount of lease payment was based on the office space leased by each related party and was collected on a monthly basis.

Under certain contracts, the Company provided the IT service to the above related parties. The specifically negotiated terms were not comparable to those with external customers.

# g. Compensation of key management personnel

|                                   | For the Year End | ded December 31   |
|-----------------------------------|------------------|-------------------|
|                                   | 2020             | 2019              |
| Short-term benefits               | \$ 462,655       | \$ 259,209        |
| Post-employment benefits          | 6,835            | 8,651             |
| Share-based payments              | 48,751           | 13,899            |
| Other long-term employee benefits | (14)             | (27)              |
|                                   | \$ 518,227       | <u>\$ 281,732</u> |

The remuneration of key executives was determined by the remuneration committee based on the performance of individuals and market trends.

#### 31. ASSETS PLEDGED AS COLLATERAL OR FOR SECURITY

The following assets were provided as collateral for bank borrowings, the tariff of imported raw materials guarantees, natural gas agreements, and land lease agreements:

|  | Decem                    | iber 31                         |
|--|--------------------------|---------------------------------|
|  | 2020                     | 2019                            |
| Property, plant and equipment, net<br>Pledge deposits (classified as other financial assets - non-current) | \$ 12,915,218<br>157,665 | \$ 13,228,948<br><u>157,665</u> |
|  | \$ 13,072,883            | \$ 13,386,613                   |

## 32. SIGNIFICANT CONTINGENT LIABILITIES AND UNRECOGNIZED COMMITMENTS

In addition to those disclosed in other notes, significant commitments and contingencies of the Company as of December 31, 2020 and 2019 were as follows:

- a. As of December 31, 2020 and 2019, unused letters of credit amounted to approximately \$0 thousand and \$36,917 thousand, respectively.
- b. Unrecognized commitments are as follows:

|  | Decem               | ber 31              |
|--|---------------------|---------------------|
|  | 2020                | 2019                |
| Acquisition of property, plant and equipment | <u>\$ 2,137,663</u> | <u>\$ 1,420,915</u> |

- c. In January 2019, the Company again signed an agreement with IBM to continue the joint development of phase-change memory technology, and the agreement is effective from January 2019 to January 2022. Under the agreement, both parties share the related expenditures of the technology development, and the unrecognized contract amounts were US\$4,000 thousand.
- d. The Company's board of directors passed a resolution to donate the Innovation Center Macronix Hall to National Cheng Kung University with a donation amount of \$420,000 thousand. As of December 31, 2020, the Company's unrecognized amount is \$154,000 thousand.
- e. The Company's board of directors passed a resolution to donate to National Cheng Kung University to establish the "School of Computing" to cultivate cross domain innovative talents with dual expertise "specific discipline" and "computing" to feedback to the society, and to fulfill Company's social responsibilities with a donation amount of \$100,000 thousand per year for the following ten years. As of December 31, 2020, the Company has allocated \$100,000 thousand.

#### 33. SIGNIFICANT ASSETS AND LIABILITIES DENOMINATED IN FOREIGN CURRENCIES

The Company' significant financial assets and liabilities denominated in foreign currencies aggregated by the foreign currencies other than functional currencies and the related exchange rates between foreign currencies and respective functional currencies were as follows:

## December 31, 2020

|  | Foreign<br>Currencies<br>(In thousands) | Exchange<br>Rate | Carrying<br>Amount                        |
|--|---|------------------|---|
| <u>Financial assets</u>  | (====================================== |                  |   |
| Monetary items JPY USD   | \$ 20,790,537<br>179,035                | 0.2763<br>28.48  | \$ 5,744,425<br>5,098,926                 |
| Non-monetary items Investments accounted for using the equity method USD | 84,629                                  | 28.48            | \$ 10,843,351<br>\$ 2,410,232             |
| Financial liabilities  |   |                  |   |
| Monetary items JPY USD   | 15,050,542<br>49,655                    | 0.2763<br>28.48  | \$ 4,158,465<br>1,414,181<br>\$ 5,572,646 |

# December 31, 2019

|  | Foreign<br>Currencies<br>(In thousands) | Exchange<br>Rate | Carrying<br>Amount                         |
|--|---|------------------|--|
| Financial assets   |   |                  |  |
| Monetary items JPY USD   | \$ 21,738,886<br>164,911                | 0.2760<br>29.98  | \$ 5,999,933<br>4,944,045<br>\$ 10,943,978 |
| Non-monetary items Investments accounted for using the equity method USD | 76,209                                  | 29.98            | \$ 2,284,755                               |
| Financial liabilities  |   |                  |  |
| Monetary items JPY USD   | 17,522,332<br>42,388                    | 0.2760<br>29.98  | \$ 4,836,164<br>1,270,792<br>\$ 6,106,956  |

For the years ended December 31, 2020 and 2019, realized and unrealized net foreign exchange gains (losses) were NT\$71,859 thousand and NT\$(62,996) thousand, respectively. It is impractical to disclose net foreign exchange losses by each significant foreign currency due to the variety of the foreign currency transactions.

# 34. SEPARATELY DISCLOSED ITEMS

- a. Information on significant transactions:
  - 1) Financing provided to others: None
  - 2) Endorsements/guarantees provided: None
  - 3) Marketable securities held (excluding investment in subsidiaries, associates and joint ventures): Table 1 (attached)
  - 4) Marketable securities acquired and disposed of at costs or prices of at least NT\$300 million or 20% of the paid-in capital: None
  - 5) Acquisition of individual real estate at costs of at least NT\$300 million or 20% of the paid-in capital: None
  - 6) Disposal of individual real estate at prices of at least NT\$300 million or 20% of the paid-in capital: None
  - 7) Total purchases from or sales to related parties amounting to at least NT\$100 million or 20% of the paid-in capital: Table 2 (attached)

- 8) Receivables from related parties amounting to at least NT\$100 million or 20% of the paid-in capital: Table 3 (attached)
- 9) Trading in derivative instruments: None
- b. Information on investees: Table 4 (attached)
- c. Information on investments in mainland China:
  - 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, shareholding ratio, investment gain or loss, carrying amount of the investment at the end of the period, repatriation of investment gains, and limit on the amount of investment in the mainland China area: Table 5 (attached)
  - 2) Any of the significant transactions with investee companies in mainland China, either directly or indirectly through a third area, and their prices, payment terms, and unrealized gains or losses: None
- d. Information of major shareholders: List all shareholders with ownership of 5% or greater showing the name of the shareholder, the number of shares owned, and percentage of ownership of each shareholder: None

MACRONIX INTERNATIONAL CO., LTD.

MARKETABLE SECURITIES HELD
DECEMBER 31, 2020
(In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

|                      |   | D -1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 |  |                                | December 31, 2020  | 31, 2020                       |                      |                         |
|----------------------|---|--|--|--------------------------------|--------------------|--------------------------------|----------------------|-------------------------|
| Holding Company Name | Holding Company Name Type and Name of Marketable Securities   | Kelationship with the Holding<br>Company | Financial Statement Account  | Shares/Units<br>(In Thousands) | Carrying<br>Amount | Percentage of<br>Ownership (%) | Fair Value<br>(Note) | Snares as<br>Collateral |
| The Company          | <u>Shares</u><br>Ardentec Corporation                         | The Company serves as member of          | The Company serves as member of Financial assets at FVTOCI - non current | 35,951,871                     | \$ 1,389,540       | 7.33                           | \$ 1,389,540         | None                    |
|                      | United Industrial Gases Co., Ltd.                             | its board of directors<br>None           | ŧ  | 6,671,877                      | 389,504            | 3.06                           | 389,504              | None                    |
| TY CANA              | Zowie Technology Co., Ltd.                                    | None                                     | *  | 20,426                         |                    | 0.10                           | ı                    | None                    |
| MABVI                | Shares<br>Chipbond Technology Corporation                     | None                                     | Financial assets at FVTOCI - non current                                 | 1,088,319                      | 72,264             | 0.17                           | 72,264               | None                    |
|                      | Tower Semiconductor Ltd.                                      | None                                     | 3 3  | 578,552                        | 425,440            | 0.54                           | 425,440              | None                    |
| Hui Ying             | Amphastal I natinaceutears, inc. Shares                       | 1000                                     |  | 42,110                         | 101,07             | 01.0                           | 101,07               | OHOLI                   |
|                      | Macronix International Co., Ltd.<br>Raio Technology Co., Ltd. | The Company<br>None                      | Financial assets at FVTOCI - non current                                 | 1,956,619<br>1,247,288         | 82,765<br>31,195   | 0.11                           | 82,765<br>31,195     | None<br>None            |
|                      |   |  |  |                                |                    |                                |                      |                         |

MACRONIX INTERNATIONAL CO., LTD.

TOTAL PURCHASES FROM OR SALES TO RELATED PARTIES AMOUNTING TO AT LEAST NT\$100 MILLION OR 20% OF THE PAID-IN CAPITAL FOR THE YEAR ENDED DECEMBER 31, 2020 (In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

| Notes                               | 2101              | 1   |   |             | 1  | 1                                  | 1                                  |
|-------------------------------------|-------------------|---|---|-------------|--|------------------------------------|------------------------------------|
| ceivable                            | % to<br>Total     | 32  | ======================================= | 2           | 57   | 100                                | 100                                |
| Notes/Accounts Receivable (Payable) | Ending Balance    | 1,647,427   | 587,454                                 | 98,670      | 4,062,279  | 20,627                             | 3,465                              |
|                                     | Endi              | S   |   |             |  | \$SO                               | NS\$                               |
| Abnormal Transaction                | Payment<br>Term   | Note 30   | Note 30                                 | Note 30     | Note 30  | No material No material difference | No material No material difference |
| Abnormal'                           | Unit Price        | Note 30   | Note 30                                 | Note 30     | Note 30  | No material difference             | No material<br>difference          |
| Details                             | Payment Terms     | 41 30 days after monthly closing  | 45 days after monthly closing           | Net 60 days | 30 days after monthly closing and Note 30 after acceptance of materials                    | 100 45 days after monthly closing  | 100 Net 60 days                    |
| Transaction Details                 | % to<br>Total     | 41  | 15                                      | 3           | 52   | 100                                | 100                                |
| Trans                               | Amount            | 16,101,433  | 5,778,319                               | 1,257,037   | 6,209,245  | 195,739                            | 42,470                             |
|                                     | 1                 | 8   |   |             |  | \$SO                               | NS\$                               |
|                                     | Purchase/<br>Sale | Sales   | Sales                                   | Sales       | Purchase   | Purchase                           | Purchase                           |
| Dolotionshin                        | Relationship      | Its subsidiary, Shun Ying Investment, Sales is represented in MXIC's board of directors | Indirect subsidiary                     | Subsidiary  | Its subsidiary, Shun Ying Investment, Purchase is represented in MXIC's board of directors | Indirect subsidiary                | Subsidiary                         |
| Dolotod Dosety                      | Neialeu Farty     | MegaChips   | MXHK                                    | MXA         | MegaChips  | The Company                        | The Company                        |
| Davios                              | Duyer             | The Company   |   |             |  | MXHK                               | MXA                                |

MACRONIX INTERNATIONAL CO., LTD.

RECEIVABLES FROM RELATED PARTIES AMOUNTING TO AT LEAST NT\$100 MILLION OR 20% OF THE PAID-IN CAPITAL DECEMBER 31, 2020 (In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

| Compound Nome |               | Dolotionshin  | Unding Dolong     | Tuenomon Doto             | )                                     | Overdue      | Amounts Received in              | Allowance for   |
|---------------|---------------|---|-------------------|---------------------------|---------------------------------------|--------------|----------------------------------|-----------------|
| Company vame  | Neigica Falty | Neiationship  | Ellumg Dalance    | •                         | Amount                                | Action Taken | Subsequent Period                | Impairment Loss |
| The Company   | MegaChips     | Its subsidiary, Shun Ying Investment, is represented in MXIC's board of | \$ 1,647,427      | 12.29 times               | · · · · · · · · · · · · · · · · · · · |              | \$ 1,647,427 thousand            | · •             |
|               | MXHK<br>MXA   | directors<br>Indirect subsidiary<br>Subsidiary                          | 587,454<br>98,670 | 8.76 times<br>10.66 times |                                       |              | 587,454 thousand 98,670 thousand |                 |

MACRONIX INTERNATIONAL CO., LTD.

INFORMATION ON INVESTEES FOR THE YEAR ENDED DECEMBER 31, 2020 (In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

|                  |  |                                 |                              | Original Investment Amount | ment Amount          | Balance as  | Balance as of December 31, 2020 | 31, 2020        | Not Income (Lean) | Choung of Dunfie | 190        |            |
|------------------|--|---------------------------------|------------------------------|----------------------------|----------------------|-------------|---------------------------------|-----------------|-------------------|------------------|------------|------------|
| Investor Company | Investee Company                       | Location                        | Main Businesses and Products | December 31,<br>2020       | December 31,<br>2019 | Shares      | %                               | Carrying Amount |                   | (Loss)           |            | Note       |
| The Company      | ×××××××××××××××××××××××××××××××××××××× | San Jose California USA         | Sales and marketino          | 2 640                      | 2 640                | 000 001     | 100 00                          | \$ 174.769      | \$ 15 552         | €                | 0.         | ubsidiarv  |
|                  | MXBVI                                  | Tortola, British Virgin Islands | Investment holding company   | 7,348,057                  | 7,348,057            | 212,048,000 | 100.00                          | 2,235,463       | 142,922           | 14               | 43,018 Sub | ubsidiary  |
|                  | Hui Ying                               | Taipei, Taiwan                  | Investment                   | 500,000                    | 500,000              | •           | 100.00                          | 83,782          | 7,014             |                  | S          | ubsidiary  |
|                  | Run Hong                               | Taipei, Taiwan                  | Investment                   | 984,432                    | 984,432              | •           | 100.00                          | 14,113          | (483)             |                  | 0,1        | Subsidiary |
|                  | Mxtran                                 | Hsinchu, Taiwan                 | IC design                    | 755,287                    | 755,287              | 69,627,323  | 90.43                           | 14,019          | (9,138)           |                  | 9,         | Subsidiary |
| MXBVI            | New Trend Technology Inc.              | San Jose, California, USA.      | IC design                    | 899,931                    | 891,291              | 27,450,000  | 100.00                          | 278,367         | (8,812)           |                  | 9,         | Subsidiary |
|                  | MXE                                    | Belgium                         | After-sales service          | 2,106                      | 2,106                | 666         | 100.00                          | 133,516         | 7,429             |                  | 9,         | sidiary    |
|                  | MPL                                    | Singapore                       | After-sales service          | 3,291                      | 3,291                | 174,000     | 100.00                          | 21,932          | 2,308             |                  | 9,         | sidiary    |
|                  | MXHK                                   | Hong Kong                       | Sales and marketing          | 378,427                    | 378,427              | 89,700,000  | 100.00                          | 917,699         | 130,729           |                  | 9,         | ubsidiary  |
|                  | MX Asia                                | Cayman Island                   | After-sales service          | 23,035                     | 23,035               | 700,000     | 100.00                          | 72,450          | 4,016             |                  | $\infty$   | ubsidiary  |
| Run Hong         | Mxtran                                 | Hsinchu, Taiwan                 | IC design                    | 40,318                     | 40,318               | 3,393,200   | 4.41                            | 683             | (9,138)           |                  | $\infty$   | ubsidiary  |
| Mxtran           | Mxtran Samoa                           | Samoa                           | Investment holding company   | 35,979                     | 35,979               | 1,170,000   | 100.00                          | 984             | -                 |                  | (V)        | ubsidiary  |
| Mxtran Samoa     | Mxtran HK                              | Hong Kong                       | Investment holding company   | 23,880                     | 23,880               | 6,152,000   | 100.00                          | 419             | 1                 |                  | 0.1        | ubsidiary  |

Note: Under relevant regulations, no disclosure of investment gain (loss) is needed.

Accumulated Reparriation of Investment Income as of December 31, 2020

Carrying Amount as of December 31, 2020

\$ 400,483

MACRONIX INTERNATIONAL CO., LTD.

INFORMATION ON INVESTMENT IN MAINLAND CHINA FOR THE YEARS ENDED DECEMBER 31, 2020 (In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

|   | <b>~</b> •   |   |
|---|--|---|
|   | Investment Gain<br>(Loss)<br>(Note 1)  | \$ 11,404   |
|   | % Ownership for<br>Direct or Indirect<br>Investment                            | 100   |
|   | Net Income (Loss)<br>of the Investee   | \$ 11,040   |
| Accumulated   | Outward Remittance<br>for Investment from<br>Taiwan as of<br>December 31, 2020 | \$ 296,160  |
| Remittance of Funds Outward Inward  |  | -   |
|   |  | ·<br>~  |
| Accumulated Outward Remittance for Investment from Taiwan as of January 1, 2020 |  | \$ 296,160  |
| Method of Investment  |  | MXHK<br>(Note 2)                                      |
|   | Paid-in Capital  | \$ 296,160  |
|   | Main Businesses and Products   | Development of integrated circuit system and software |
|   | Investee Company   | MXm   |

| Upper Limit on the Amounts of Investment Stipulated by Investment Commission, MOEA         | \$ 21,716,156 |
|--|---------------|
| Investment Amount Authorized by the Investment<br>Commission, MOEA                         | \$ 296,160    |
| Accumulated Outward Remittance for Investment in<br>Mainland China as of December 31, 2020 | \$ 296,160    |

Note 1: The amount was recognized based on the audited financial statements of the investee company.

# Macronix International Co., Ltd. Chairman: Miin Chyou Wu