Mechema Chemicals International Corp. and Subsidiaries

Consolidated Financial Statements for the Years Ended December 31, 2022 and 2021 and Independent Auditors' Report

DECLARATION OF CONSOLIDATION OF FINANCIAL STATEMENTS OF AFFILIATES

The companies required to be included in the consolidated financial statements of affiliates in accordance with the “Criteria Governing Preparation of Affiliation Reports, Consolidated Business Reports and Consolidated Financial Statements of Affiliated Enterprises” for the year ended December 31, 2022 are all the same as the companies required to be included in the consolidated financial statements of parent and subsidiary companies as provided in International Financial Reporting Standard 10 “Consolidated and Separate Financial Statements”. Relevant information that should be disclosed in the consolidated financial statements of affiliates has all been disclosed in the consolidated financial statements of parent and subsidiary companies. Hence, we do not prepare a separate set of consolidated financial statements of affiliates.

Very truly yours,

MECHEMA CHEMICALS INTERNATIONAL CORP.

By

____

LUNG-TSAI YEN
Chairman

March 22, 2023

INDEPENDENT AUDITORS' REPORT

The Board of Directors and Shareholders
Mechema Chemicals International Corp.

Opinion

We have audited the accompanying consolidated financial statements of Mechema Chemicals International Corp. and its subsidiaries (the Group), which comprise the consolidated balance sheets as of December 31, 2022 and 2021, 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, 2022 and 2021, 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 of the consolidated financial statements for the years ended December 31, 2022 and 2021 in accordance with the Regulations Governing Auditing and Attestation of Financial Statements by Certified Public Accountants and the Standards on Auditing of 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, 2022. 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 Group's consolidated financial statements for the year ended December 31, 2022 are stated as follows:

Recognition of Revenue

The main source of revenue of the Group comes from the sales of battery cathode material. Most of the sales were highly concentrated on major customers, which accounted for 47% of total sales revenue. Therefore, the management may be under pressure to meet the profit target. Since there is a significant risk, we considered the recognition of sales revenue as key audit matter.

The main audit procedures performed by the accountant for the above matters are as follows:

1. We assessed the validity of clients' orders from their clients.

2. We tested the design and the operating effectiveness of internal control processes of sales revenue. We reviewed clients' orders, which were authorized by appropriate supervisors, and we checked the shipping documents signed by clients and confirmed that the sales actually occurred.

3. Perform the confirmation letter procedure to confirm the occurrence of sales.

Other Matter

We have also audited the parent company only financial statements of Mechema Chemicals International Corp. as of and for the years ended December 31, 2022 and 2021 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, IFRS, IAS, IFRIC, and 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 members of 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 Standards on Auditing of 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 Standards on Auditing of 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 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, 2022 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 audits resulting in this independent auditors' report are Yung-Ming Chiu and Chin-Chuan Shih.

Deloitte & Touche
Taipei, Taiwan
Republic of China

March 22, 2023

<u>*Notice to Readers*</u>

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.

MECHEMA CHEMICALS INTERNATIONAL CORP. AND SUBSIDIARIES

CONSOLIDATED BALANCE SHEETS
DECEMBER 31, 2022 AND 2021
(In Thousands of New Taiwan Dollars)

	2022		2021	
ASSETS	**Amount**	**%**	**Amount**	**%**
CURRENT ASSETS				
Cash and cash equivalents (Notes 4 and 6)	$ 366,480	15	$ 432,593	18
Financial assets at fair value through profit or loss - current (Notes 4 and 7)	43,068	2	35,385	2
Financial assets at amortized cost - current (Notes 4, 8 and 25)	18,044	1	5,213	-
Notes and trade receivables (Notes 4, 9 and 19)	524,929	21	449,980	18
Trade receivables from related parties (Notes 4, 19 and 24)	258,380	10	303,414	12
Other receivables (Note 4)	47,384	2	5,743	-
Other receivables from related parties (Notes 4 and 24)	3,567	-	3,275	-
Current tax assets (Notes 4 and 20)	11,709	1	-	-
Inventories (Notes 4 and 10)	627,745	25	474,634	19
Prepayments (Note 15)	10,110	-	182,118	8
Other current assets	54,043	2	39,268	2
Total current assets	1,965,459	79	1,931,623	79
NON-CURRENT ASSETS				
Financial assets at amortized cost - non-current (Notes 4, 8 and 25)	228	-	214	-
Investments accounted for using the equity method (Notes 4 and 11)	112,074	4	127,060	5
Property, plant and equipment (Notes 4 and 12)	360,949	14	321,756	13
Right-of-use assets (Notes 4 and 13)	15,763	1	16,159	1
Investment properties (Notes 4 and 14)	12,635	1	14,386	1
Goodwill (Note 4)	1,281	-	1,281	-
Deferred tax assets (Notes 4 and 20)	12,476	1	5,560	-
Prepaid equipment	9,844	-	17,032	1
Refundable deposits (Note 4)	3,318	-	3,312	-
Net defined benefit asset - non-current (Notes 4 and 17)	1,741	-	217	-
Other non-current assets	7,295	-	6,152	-
Total non-current assets	537,604	21	513,129	21
TOTAL	$ 2,503,063	100	$ 2,444,752	100
LIABILITIES AND EQUITY				
CURRENT LIABILITIES				
Short-term borrowings (Note 16)	$ 789,473	32	$ 627,000	26
Short-term bills payable (Note 16)	-	-	250,000	10
Notes and trade payables	40,094	2	60,697	3
Other payables (Note 24)	51,394	2	44,648	2
Current tax liabilities (Notes 4 and 20)	106,794	4	68,071	3
Lease liabilities - current (Notes 4 and 13)	695	-	706	-
Other current liabilities	7,982	-	7,872	-
Total current liabilities	996,432	40	1,058,994	44
NON-CURRENT LIABILITIES				
Deferred income tax liabilities (Notes 4 and 20)	5,421	-	3,856	-
Lease liabilities - non-current (Notes 4 and 13)	-	-	516	-
Total non-current liabilities	5,421	-	4,372	-
Total liabilities	1,001,853	40	1,063,366	44
EQUITY ATTRIBUTABLE TO OWNERS OF THE COMPANY				
Ordinary shares (Note 18)	749,863	30	749,863	30
Capital surplus (Note 18)	24,825	1	24,825	1
Retained earnings (Note 18)				
Legal reserve	321,008	13	284,987	12
Special reserve	120,578	5	81,462	3
Unappropriated earnings	383,444	15	360,827	15
Total retained earnings	825,030	33	727,276	30
Other equity (Notes 4 and 18)				
Exchange differences on translating foreign operations	(98,508)	(4)	(120,578)	(5)
Total equity	1,501,210	60	1,381,386	56
TOTAL	$ 2,503,063	100	$ 2,444,752	100

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

MECHEMA CHEMICALS INTERNATIONAL CORP. AND SUBSIDIARIES

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME
FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021
(In Thousands of New Taiwan Dollars, Except Earnings Per Share)

	2022		2021	
	Amount	**%**	**Amount**	**%**
SALES (Notes 4, 19 and 24)	$ 5,271,498	100	$ 4,126,416	100
COST OF GOODS SOLD (Notes 10 and 19)	4,760,738	90	3,575,002	87
GROSS PROFIT	510,760	10	551,414	13
UNREALIZED GAIN ON TRANSACTIONS WITH JOINT VENTURES	(6,314)	-	-	-
REALIZED GAIN ON TRANSACTIONS WITH JOINT VENTURES	-	-	5,016	-
REALIZED GROSS PROFIT	504,446	10	556,430	13
OPERATING EXPENSES (Notes 19 and 24)				
Selling and marketing expenses	58,502	1	53,104	1
General and administrative expenses	69,530	2	74,970	2
Research and development expenses	14,450	-	11,288	-
Total operating expenses	142,482	3	139,362	3
PROFIT FROM OPERATIONS	361,964	7	417,068	10
NON-OPERATING INCOME AND EXPENSES				
Share of profit or loss of joint ventures (Notes 4 and 11)	(8,672)	-	(4,585)	-
Interest income	6,839	-	4,201	-
Rental income (Note 24)	15,595	-	15,338	-
Other income (Note 24)	29,461	1	33,755	1
Net gain on disposal of property, plant and equipment (Note 4)	-	-	119	-
Net foreign exchange gain (loss) (Notes 4 and 29)	81,807	1	(1,569)	-
Gain on valuation of financial assets at FVTPL (Note 4)	7,683	-	2,087	-
Other gains and losses	(7)	-	-	-
Finance costs	(13,400)	-	(6,089)	-
Total non-operating income and expenses	119,306	2	43,257	1
PROFIT BEFORE INCOME TAX	481,270	9	460,325	11
INCOME TAX EXPENSE (Notes 4 and 20)	(99,945)	(2)	(99,691)	(2)

(Continued)

MECHEMA CHEMICALS INTERNATIONAL CORP. AND SUBSIDIARIES

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME
FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021
(In Thousands of New Taiwan Dollars, Except Earnings Per Share)

	2022		2021	
	Amount	**%**	**Amount**	**%**
NET PROFIT FOR THE YEAR	381,325	7	360,634	9
OTHER COMPREHENSIVE INCOME (LOSS)				
Items that will not be reclassified subsequently to profit or loss:				
Remeasurement of defined benefit plans (Note 4)	1,377	-	(423)	-
Items that maybe reclassified subsequently to profit or loss:				
Exchange differences on translating foreign operations (Note 4)	22,070	1	(39,116)	(1)
Other comprehensive income (loss) for the year, net of income tax	23,447	1	(39,539)	(1)
TOTAL COMPREHENSIVE INCOME FOR THE YEAR	$ 404,772	8	$ 321,095	8
NET PROFIT ATTRIBUTABLE TO:				
Owners of the Company	$ 381,325	7	$ 360,634	9
Non-controlling interests	-	-	-	-
	$ 381,325	7	$ 360,634	9
TOTAL COMPREHENSIVE INCOME ATTRIBUTABLE TO:				
Owners of the Company	$ 404,772	8	$ 321,095	8
Non-controlling interests	-	-	-	-
	$ 404,772	8	$ 321,095	8
EARNINGS PER SHARE (Note 21)				
Basic	$ 5.09		$ 4.81	
Diluted	$ 5.08		$ 4.81	

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

MECHEMA CHEMICALS INTERNATIONAL CORP. AND SUBSIDIARIES

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY
FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021
(In Thousands of New Taiwan Dollars)

			Retained Earnings			Others	
	Ordinary Shares	Capital Surplus	Legal Reserve	Special Reserve	Unappropriated Earnings	Exchange Differences on Translating Foreign Operations	Total Equity
BALANCE AT JANUARY 1, 2021	$ 749,863	$ 24,825	$ 272,649	$ 74,666	$ 123,981	$ (81,462)	$ 1,164,522
Appropriation of 2020 earnings							
Legal reserve	-	-	12,338	-	(12,338)	-	-
Special reserve	-	-	-	6,796	(6,796)	-	-
Cash dividends distributed by the Company	-	-	-	-	(104,231)	-	(104,231)
Net profit for the year ended December 31, 2021	-	-	-	-	360,634	-	360,634
Other comprehensive loss for the year ended December 31, 2021	-	-	-	-	(423)	(39,116)	(39,539)
Total comprehensive income (loss) for the year ended December 31, 2021	-	-	-	-	360,211	(39,116)	321,095
BALANCE AT DECEMBER 31, 2021	749,863	24,825	284,987	81,462	360,827	(120,578)	1,381,386
Appropriation of 2021 earnings							
Legal reserve	-	-	36,021	-	(36,021)	-	-
Special reserve	-	-	-	39,116	(39,116)	-	-
Cash dividends distributed by the Company	-	-	-	-	(284,948)	-	(284,948)
Net profit for the year ended December 31, 2022	-	-	-	-	381,325	-	381,325
Other comprehensive income for the year ended December 31, 2022	-	-	-	-	1,377	22,070	23,447
Total comprehensive income for the year ended December 31, 2022	-	-	-	-	382,702	22,070	404,772
BALANCE AT DECEMBER 31, 2022	$ 749,863	$ 24,825	$ 321,008	$ 120,578	$ 383,444	$ (98,508)	$ 1,501,210

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

MECHEMA CHEMICALS INTERNATIONAL CORP. AND SUBSIDIARIES

CONSOLIDATED STATEMENTS OF CASH FLOWS
FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021
(In Thousands of New Taiwan Dollars)

	2022	2021
CASH FLOWS FROM OPERATING ACTIVITIES		
Profit before income tax	$ 481,270	$ 460,325
Adjustments for:		
Depreciation expense	23,473	22,283
Amortization expense	2,786	1,540
Net gain on fair value changes of financial assets at fair value through profit or loss	(7,683)	(2,087)
Finance costs	13,400	6,089
Interest income	(6,839)	(4,201)
Share of profit or loss of joint ventures	8,672	4,585
Gain on disposal of property, plant and equipment	-	(119)
Unrealized (Realized) gain on transactions with joint ventures	6,314	(5,016)
Changes in operating assets and liabilities		
Notes and trade receivables	(74,949)	(116,121)
Trade receivables from related parties	45,034	(251,281)
Other receivables	(41,641)	2,268
Other receivables from related parties	(292)	(1,040)
Inventories	(152,529)	(232,245)
Prepayments	172,008	(142,727)
Other current assets	(14,775)	(7,976)
Defined benefit asset	(147)	(179)
Notes and trade payables	(20,603)	7,090
Other payables	6,746	(217)
Other current liabilities	(544)	4,034
Cash generated from (used in) operations	439,701	(254,995)
Interest received	6,839	4,201
Interest paid	(12,911)	(5,977)
Income tax paid	(78,282)	(59,347)
Net cash generated from (used in) operating activities	355,347	(316,118)
CASH FLOWS FROM INVESTING ACTIVITIES		
Purchase of financial assets measured at cost	(15,840)	(225,584)
Proceeds from sale of financial assets measured at cost	3,086	294,002
Purchases of property, plant and equipment	(30,048)	(12,835)
Proceeds from disposal of property, plant and equipment	-	119
(Increase) decrease in refundable deposits	(6)	975
Increase in long-term prepaid expenses	(3,928)	(6,102)
Increase in prepaid equipment	(17,214)	(21,653)
Net cash (used in) generated from investing activities	(63,950)	28,922
CASH FLOWS FROM FINANCING ACTIVITIES		
Proceeds from short-term borrowings	162,473	376,092
(Repayments of) proceeds from short-term bills payable	(250,000)	225,000

(Continued)

MECHEMA CHEMICALS INTERNATIONAL CORP. AND SUBSIDIARIES

CONSOLIDATED STATEMENTS OF CASH FLOWS
FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021
(In Thousands of New Taiwan Dollars)

	2022	2021
Repayment of the principal portion of lease liabilities	(878)	(1,245)
Dividends paid to owners of the Company	(284,948)	(104,231)
Net cash (used in) generated from financing activities	(373,353)	495,616
EFFECT OF EXCHANGE RATE CHANGES ON CASH AND CASH EQUIVALENTS	15,843	(32,032)
NET (DECREASE) INCREASE IN CASH AND CASH EQUIVALENTS	(66,113)	176,388
CASH AND CASH EQUIVALENTS AT THE BEGINNING OF THE YEAR	432,593	256,205
CASH AND CASH EQUIVALENTS AT THE END OF THE YEAR	$ 366,480	$ 432,593

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

MECHEMA CHEMICALS INTERNATIONAL CORP. AND SUBSIDIARIES

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS
FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021
(In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

1. GENERAL INFORMATION

Mechema Chemicals International Corp. (the "Company") was incorporated in the Republic of China (ROC) on June 30, 1992. The Company is mainly engaged in the following activities:

a. Manufacturing, sales, import and export of cobalt and its compounds and manganese and its compounds;

b. Sales, import and export of cobalt and manganese.

Over the years after several rounds of increase and decrease in cash capital, the paid-in capital as of December 31, 2022 is NT$749,863 thousand.

The Company's shares have been listed on the Taipei Exchange ("TPEx") since March 2001.

Organization and Operations of the Subsidiaries

Mechema Chemicals (Thailand) Co., Ltd. (MT), a company established in April 1996. It is mainly engaged in manufacturing of oxidation catalysts. The paid-in capital as of December 31, 2022 is THB31,000 thousand.

PT Mechema Indonesia (MI), a company established in April 1998. It is mainly engaged in the manufacturing of oxidation catalysts. Over the years after several rounds of increase in cash capital, the paid-in capital as of December 31, 2022 is IDR29,910,650 thousand.

Mechema Korea Co., Ltd. (MK), a company established in April 1999. It is mainly engaged in the manufacturing of oxidation catalysts. Over the years after several rounds of increase in cash capital, the paid-in capital as of December 31, 2022 is KRW4,382,020 thousand.

Catalyst Development Co., Ltd. (Catalyst) is a company established in September 2001. It is mainly engaged in investments in mainland China. Over the years after several rounds of increase in cash capital, the paid-in capital as of December 31, 2022 is US$8,100 thousand.

Mechema Chemical (Xiamen) Co., Ltd. (Xiamen) is a company established in September 2001. It is mainly engaged in real estate business. The paid-in capital as of December 31, 2022 is RMB25,925 thousand.

Mechema Chemical (Shang Yu) Co., Ltd. (Shang Yu) is a company established in August 2005. It is mainly engaged in the manufacturing of oxidation catalysts. The paid-in capital as of December 31, 2022 is RMB46,518 thousand.

Mechema Chemical (Malaysia) Co., Ltd. (MM) is a company established in January 2008. It is mainly engaged in the manufacturing of oxidation catalysts. The paid-in capital as of December 31, 2022 is MYR5,000 thousand.

The consolidated financial statements of the Company and its subsidiaries, collectively referred to as the "Group", are presented in the Company's functional currency, the New Taiwan dollar.

.

2. APPROVAL OF FINANCIAL STATEMENTS

The consolidated financial statements were approved and authorized for issue by the board of directors on March 22, 2023.

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), IFRIC Interpretations (IFRIC), and SIC Interpretations (SIC) (collectively, the “IFRSs”) endorsed and issued into effect by the Financial Supervisory Commission (FSC)

The above-mentioned initial application of 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 FSC for application starting from 2023

New, Amended and Revised Standards and Interpretations	Effective Date Announced by IASB
Amendments to IAS 1 “Disclosure of Accounting Policies”	January 1, 2023 (Note 1)
Amendments to IAS 8 “Definition of Accounting Estimates”	January 1, 2023 (Note 2)
Amendments to IAS 12 “Deferred Tax related to Assets and Liabilities arising from a Single Transaction”	January 1, 2023 (Note 3)

Note 1: The amendments will be applied prospectively for annual reporting periods beginning on or after January 1, 2023.

Note 2: The amendments will be applicable to changes in accounting estimates and changes in accounting policies that occur on or after the beginning of the annual reporting period beginning on or after January 1, 2023.

Note 3: Except for deferred taxes that were recognized on January 1, 2022 for temporary differences associated with leases and decommissioning obligations, the amendments were applied prospectively to transactions that occurred on or after January 1, 2022.

As of the date the consolidated financial statements were authorized for issue, the Group has assessed that the application of other standards and interpretations will not have a material impact on the Group’s financial position and financial performance.

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

New, Amended and Revised Standards and Interpretations	Effective Date Announced by IASB (Note 1)
Amendments to IFRS 10 and IAS 28 “Sale or Contribution of Assets between an Investor and its Associate or Joint Venture”	To be determined by IASB
Amendments to IFRS 16 “Leases Liability in a Sale and Leaseback”	January 1, 2024 (Note 2)
IFRS 17 “Insurance Contracts”	January 1, 2023
Amendments to IFRS 17	January 1, 2023
Amendments to IFRS 17 “Initial Application of IFRS 9 and IFRS 17 - Comparative Information”	January 1, 2023
Amendments to IAS 1 “Classification of Liabilities as Current or Non-current”	January 1, 2024
Amendments to IAS 1 “Non-current Liabilities with Covenants”	January 1, 2024

Note 1: Unless stated otherwise, the above IFRSs are effective for annual reporting periods beginning on or after their respective effective dates.

Note 2: A seller-lessee shall apply the Amendments to IFRS 16 retrospectively to sale and leaseback transactions entered into after the date of initial application of IFRS 16.

As of the date the financial statements were authorized for issue, the Group is continuously assessing the possible impact of the application of other standards and interpretations on the Group’s financial position and financial performance and will disclose the relevant impact when the assessment is completed.

4. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

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.

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 net defined benefit liabilities which are measured at the present value of the defined benefit obligation less the fair value of plan assets.

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:

a. Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities;

b. 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

c. Level 3 inputs are unobservable inputs for an asset or liability.

Classification of Current and Non-current Assets and Liabilities

Current assets include:

a. Assets held primarily for the purpose of trading;

b. Assets expected to be realized within 12 months after the reporting period; and

c. 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:

a. Liabilities held primarily for the purpose of trading;

b. Liabilities due to be settled within 12 months after the reporting period; and

c. Liabilities for which the Group does not have an unconditional right to defer settlement for at least 12 months after the reporting period.

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

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 statements of profit or loss and other comprehensive income from the effective dates of acquisition up to the effective dates of disposal, 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 Company. 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.

Pursuant to the above basis of preparation of the consolidated financial statements, the detailed information of the subsidiaries was as follows:

Name of Investor	Name of Investee	Main Business	Percentage of Ownership Interest December 31 2022	2021
The Company	Mechema Chemicals (Thailand) Co., Ltd.("MT")	Manufacturing of oxidation catalysts	100.00	100.00
	PT Mechema Indonesia ("MI")	Manufacturing of oxidation catalysts	100.00	100.00
	Mechema Korea Co., Ltd. ("MK")	Manufacturing of oxidation catalysts	100.00	100.00
	Mechema Chemical (Malaysia) Co., Ltd.("MM")	Manufacturing of oxidation catalysts	100.00	100.00
	Catalyst Development Co., Ltd.("Catalyst")	Investment	100.00	100.00
Catalyst	Mechema Chemical (Xiamen) Co., Ltd. ("Xiamen")	Real estate business	62.69	62.69
	Mechema Chemical (Shang Yu) Co., Ltd. ("Shang Yu")	Manufacturing of oxidation catalysts	100.00	100.00
Shang Yu	Mechema Chemical (Xiamen) Co., Ltd. ("Xiamen")	Real estate business	37.31	37.31

Business Combinations

Acquisitions of businesses are accounted for using the acquisition method. Acquisition-related costs are generally recognized in profit or loss as they are incurred.

Goodwill is measured as the excess of the sum of the consideration transferred, the amount of any non-controlling interests in the acquiree, and the fair value of the acquirer's previously held equity interests in the acquiree over the net of the acquisition-date amounts of the identifiable assets acquired and the liabilities assumed.

Foreign Currencies

In preparing the financial statements of each individual group entity, transactions in currencies other than the entity's functional currency (i.e., foreign currencies) are recognized at the rates of exchange prevailing at the dates of the transactions.

At the end of each reporting period, monetary items denominated in foreign currencies are retranslated at the rates prevailing at that date. Exchange differences on monetary items arising from settlement or translation are recognized in profit or loss.

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 item denominated in a foreign currency and measured at historical cost is stated at the reporting currency as originally translated from the foreign currency.

For the purpose of presenting consolidated financial statements, the functional currencies of the Company and the Group entities (including subsidiaries, associates, joint ventures and branches in other countries that use currencies that are different from the currency of the Company) are translated into the presentation currency, the New Taiwan dollar. 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.

Inventories

Inventories consist of raw materials, supplies, finished goods, merchandise, and work in process are stated at the lower of cost or net realizable value. Inventory write-downs are made by item, except where it may be appropriate to group similar or related items. The net realizable value is the estimated selling price of inventories less all estimated costs of completion and costs necessary to make the sale. Inventories are recorded at the weighted-average cost on the balance sheet date.

Investments in Joint Ventures

A joint venture is a joint arrangement whereby the Group and other parties that have joint control of the arrangement have rights to the net assets of the arrangement.

The Group uses the equity method to account for its investments in joint ventures. Under the equity method, investments in a joint venture are initially recognized at cost and adjusted thereafter to recognize the Group’s share of the profit or loss and other comprehensive income of the joint venture. The Group also recognizes the changes in the Group’s share of equity of joint ventures.

Any excess of the cost of acquisition over the Group’s share of the net fair value of the identifiable assets and liabilities of a joint venture at the date of acquisition is recognized as goodwill, which is included within the carrying amount of the investment and is not amortized. Any excess of the Group’s share of the net fair value of the identifiable assets and liabilities over the cost of acquisition, after reassessment, is recognized immediately in profit or loss.

When the Group subscribes for additional new shares of a joint venture at a percentage different from its existing ownership percentage, the resulting carrying amount of the investment differs from the amount of the Group’s proportionate interest in the joint venture. The Group records such a difference as an adjustment to investments with the corresponding amount charged or credited to capital surplus - changes in capital surplus from investments in associates accounted for using the equity method. If the Group’s ownership interest is reduced due to its additional subscription of the new shares of the joint venture, the proportionate amount of the gains or losses previously recognized in other comprehensive income in relation to that joint venture is reclassified to profit or loss on the same basis as would be required had the investee directly disposed of the related assets or liabilities. When the adjustment should be debited to capital surplus, but the capital surplus recognized from investments accounted for using the equity method is insufficient, the shortage is debited to retained earnings.

When the Group’s share of losses of an associate equals or exceeds its interest in that joint venture (which includes any carrying amount of the investment accounted for using the equity method and long-term interests that, in substance, form part of the Group’s net investment in the joint venture), the Group discontinues recognizing its share of further losses. Additional losses and liabilities are recognized only to the extent that the Group has incurred legal obligations, or constructive obligations, or made payments on behalf of that joint venture.

The entire carrying amount of an investment (including goodwill) is tested for impairment as a single asset by comparing its recoverable amount with its carrying amount. Any impairment loss recognized forms part of the carrying amount of the investment. Any reversal of that impairment loss is recognized to the extent that the recoverable amount of the investment subsequently increases.

The Group discontinues the use of the equity method from the date on which its investment ceases to be a joint venture. Any retained investment is measured at fair value at that date and the fair value is regarded as the investment's fair value on initial recognition as a financial asset. The difference between the previous carrying amount of the joint venture attributable to the retained interest and its fair value is included in the determination of the gain or loss on disposal of the joint venture. The Group accounts for all amounts previously recognized in other comprehensive income in relation to that associate on the same basis as would be required had that joint venture directly disposed of the related assets or liabilities. If an investment in an associate becomes an investment in a joint venture or an investment in a joint venture becomes an investment in an associate, the Group continues to apply the equity method and does not remeasure the retained interest.

When the Group transacts with its joint venture, profits and losses resulting from the transactions with the joint venture are recognized in the Group's consolidated financial statements only to the extent of interests in the joint venture that are not related to the Group.

Property, Plant and Equipment

Property, plant and equipment are initially measured at cost and subsequently measured at cost less accumulated depreciation and accumulated impairment loss.

Except for freehold land which is not depreciated, the depreciation of property, plant and equipment is recognized using the straight-line method. Each significant part is depreciated separately. The estimated useful lives, residual values and depreciation methods are reviewed at the end of each reporting period, with the effects of any changes in the estimates accounted for on a prospective basis.

On derecognition of an item of property, plant and equipment, the difference between the sales proceeds and the carrying amount of the asset is recognized in profit or loss.

Investment Properties

Investment properties are properties held to earn rental and for capital appreciation. Investment properties include right-of-use assets and properties under construction that meet the definition of investment properties. Investment properties also include land held for currently undetermined future use.

Investment properties are initially measured at cost, including transaction costs. Subsequent to initial recognition, investment properties are measured at cost less accumulated depreciation and accumulated impairment loss.

Investment properties acquired through leases are initially measured at cost, which comprises the initial measurement of lease liabilities adjusted for lease payments made on or before the commencement date, plus initial direct costs incurred and an estimate of costs needed to restore the underlying assets, less any lease incentives received. These investment properties are subsequently measured at cost less accumulated depreciation and accumulated impairment loss and adjusted for any remeasurement of the lease liabilities.

Depreciation is recognized using the straight-line method.

On the derecognition of an investment property, the difference between the net disposal proceeds and the carrying amount of the asset is included in profit or loss.

Goodwill

Goodwill arising from the acquisition of a business is measured at cost as established at the date of acquisition of the business less accumulated impairment loss.

For the purposes of impairment testing, goodwill is allocated to each of the Group's cash-generating units or groups of cash-generating units (referred to as "cash-generating units") that are expected to benefit from the synergies of the combination.

A cash-generating unit to which goodwill has been allocated is tested for impairment annually or more frequently whenever there is an indication that the unit may be impaired, by comparing its carrying amount, including the attributed goodwill, with its recoverable amount. However, if the goodwill allocated to a cash-generating unit was acquired in a business combination during the current annual period, that unit shall be tested for impairment before the end of the current annual period. If the recoverable amount of the cash-generating unit is less than its carrying amount, the impairment loss is allocated first to reduce the carrying amount of any goodwill allocated to the unit and then pro rata to the other assets of the unit based on the carrying amount of each asset in the unit. Any impairment loss is recognized directly in profit or loss. Any impairment loss recognized for goodwill is not reversed in subsequent periods.

If goodwill has been allocated to a cash-generating unit and the Group disposes of an operation within that unit, the goodwill associated with the operation which is disposed of is included in the carrying amount of the operation when determining the gain or loss on disposal and is measured on the basis of the relative values of the operation disposed of and the portion of the cash-generating unit retained.

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, investment properties and intangible assets, excluding goodwill, to determine whether there is any indication that those assets have suffered any impairment loss. If any such indication exists, the recoverable amount of the asset is estimated in order to determine the extent of the impairment loss. When it is not possible to estimate the recoverable amount of an individual asset, the Group estimates the recoverable amount of the cash-generating unit to which the asset belongs.

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 for the asset or cash-generating unit in prior years. A reversal of an impairment loss is recognized in profit or loss.

Financial Instruments

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

Financial assets and financial liabilities are initially measured at fair value. Transaction costs that are directly attributable to an acquisition or issuance of financial assets and financial liabilities (other than financial assets and financial liabilities at FVTPL) are added to or deducted from the fair value of the financial assets or financial liabilities, as appropriate, on initial recognition. Transaction costs are directly attributable to the acquisition of financial assets or financial liabilities at FVTPL are recognized immediately in profit or loss.

a. Financial assets

All regular way purchases or sales of financial assets are recognized and derecognized on a trade date basis.

1) Measurement categories

Financial assets are classified into the following categories: Financial assets at FVTPL and financial assets at amortized cost.

a) Financial asset at FVTPL

A financial asset is classified as at FVTPL when the financial asset is mandatorily classified or it is designated as at FVTPL. Financial assets mandatorily classified as at FVTPL include investments in equity instruments that are not designated as at FVTOCI and debt instruments that do not meet the amortized cost criteria or the FVTOCI criteria.

Financial assets at FVTPL are subsequently measured at fair value, and any dividends, interest earned and remeasurement gains or losses on such financial assets are recognized in other gains or losses. Fair value is determined in the manner described in in Note 23.

b) Financial assets at amortized cost

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

i. The financial asset is held within a business model whose objective is to hold financial assets in order to collect contractual cash flows; and

ii. The contractual terms of the financial asset give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding.

Subsequent to initial recognition, financial assets at amortized cost, including cash and cash equivalents, trade and notes receivables at amortized cost, other receivables and refundable deposits, are measured at amortized cost, which equals to the gross carrying amount determined by 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 asset, for which interest income is calculated by applying the credit-adjusted effective interest rate to the amortized cost of such financial assets; and

ii. Financial asset that is not credit impaired on purchase or origination but has subsequently become credit impaired, for which interest income is calculated by applying the effective interest rate to the amortized cost of such financial assets in subsequent reporting periods.

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 within 3 months from the date of acquisition, which are highly liquid, readily convertible to a known amount of cash and are subject to an insignificant risk of changes in value. These cash equivalents are held for the purpose of meeting short-term cash commitments.

2) Impairment of financial assets and contract assets

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

The Group always recognizes lifetime expected credit losses (ECLs) for trade 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 the 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.

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

a) Internal or external information shows that the debtor is unlikely to pay its creditors.

b) Financial asset is more than 90 days past due unless the Group has reasonable and corroborative information to support a more lagged default criterion.

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.

The impairment loss of all financial assets is recognized in profit or loss by a reduction in their carrying amounts 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 the carrying amounts of such financial assets are not reduced.

3) 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.

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.

b. Equity instruments

Debt and equity instruments issued by a group entity are classified as either financial liabilities or equity in accordance with the substance of the contractual arrangements and the definitions of a financial liability and an equity instrument.

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

The repurchase of the Group’s own equity instruments is recognized in and deducted directly from equity, and its carrying amounts are calculated based on weighted average by share types. No gain or loss is recognized in profit or loss on the purchase, sale, issuance or cancellation of the Company’s own equity instruments.

c. Financial liabilities

1) Subsequent measurement

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

2) Derecognition of financial liabilities

The difference between the carrying amount of a financial liability derecognized and the consideration paid, including any non-cash assets transferred or liabilities assumed, is recognized in profit or loss.

Revenue Recognition

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

<u>Sale of goods</u>

Revenue from the sale of goods comes from sales of electronic components and various chemical catalysts. Electronic components and various chemical catalysts 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 bear the risks of obsolescence. Trade receivable is recognized concurrently.

Leasing

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

a. 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.

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.

b. 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 by applying a recognition exemption where lease payments are recognized as expenses on and 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 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, variable lease payments which depend on an index or a rate, 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 lessee's incremental borrowing rate will be used.

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 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.

Lease liabilities are presented on a separate line in the consolidated balance sheets.

Employee Benefits

a. Short-term employee benefits

Liabilities recognized in respect of short-term employee benefits are measured at the undiscounted amount of the benefits expected to be paid in exchange for the related services.

b. Retirement benefits

Payments to defined contribution retirement benefit plans are recognized as expenses 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 liabilities (assets) are recognized as employee benefit expenses in the period in which they occur. Remeasurement, comprising actuarial gains and losses and the return on plan assets (excluding interest), is recognized in other comprehensive income in the period in which it occurs. Remeasurement recognized in other comprehensive income is reflected immediately in retained earnings and will not be reclassified to profit or loss.

Net defined benefit liabilities (assets) represent the actual deficit (surplus) in the Group's defined benefit plans. 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.

Mechema Chemicals (Thailand) Co., Ltd., PT Mechema Indonesia and Catalyst Development Co., Ltd. have no pension plans and thus do not contribute to pension funds and do not recognize pension costs.

Mechema Korea Co., Ltd. makes monthly contributions to pension funds of monthly salaries and wages.

Mechema Chemical (Xiamen) Co., Ltd. ("Xiamen") and Mechema Chemical (Shang Yu) Co., Ltd. ("Shang Yu") are required to contribute a specified percentage of payroll costs to the retirement benefits scheme to fund the benefits under the current regulations of the mainland China.

Mechema Chemical (Malaysia) Co., Ltd. contributes to pension funds under the current regulations of the local government.

Taxation

The income tax expense represents the sum of the tax currently payable and deferred tax.

a. 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 Act 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.

b. 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 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 and associates and interests in joint ventures, except where the Group is able to control the reversal of the temporary difference and it is probable that the temporary difference will not reverse in the foreseeable future. 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 profit 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 profit 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 period in which the liabilities are settled or the assets are realized, based on tax rates (and tax laws) that have been enacted or substantively enacted by the end of the reporting period. The measurement of deferred tax liabilities and assets reflects the tax consequences that would follow from the manner in which the Group expects, at the end of the reporting period, to recover or settle the carrying amount of its assets and liabilities.

c. Current and deferred taxes for the year

Current and deferred taxes are recognized in profit or loss, except when they relate to items that are recognized in other comprehensive income or directly in equity, 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, estimations, and assumptions on 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.

6. CASH AND CASH EQUIVALENTS

	December 31	
	2022	**2021**
Cash on hand	$ 384	$ 201
Checking accounts and demand deposits	296,263	402,917
Time deposits	88,105	34,902
	384,752	438,020
Less: Pledged deposits	(2,432)	(5,427)
Time deposits with original maturities of more than three months	(15,840)	-
	$ 366,480	$ 432,593

Cash equivalents include time deposits with original maturities within 3 months from the date of acquisition, which are highly liquid, readily convertible to a known amount of cash, and bank acceptances are subject to an insignificant risk of changes in value. Pledged deposits are pledged to secure the loan facilities granted by a bank to the Group (refer to Note 25) and are recognized under financial assets at amortized cost.

7. FINANCIAL INSTRUMENTS AT FAIR VALUE THROUGH PROFIT OR LOSS

	December 31	
	2022	**2021**
Financial assets at fair value through profit or loss - current		
Financial assets mandatorily classified as at FVTPL		
Non-derivative financial assets		
Mutual funds	$ 43,068	$ 35,385

8. FINANCIAL ASSETS AT AMORTIZED COST

	December 31	
	2022	2021
Current		
Domestic investments		
Time deposits with original maturities of more than 3 months	$ 15,840	$ -
Pledged deposits (bank guarantee)	2,204	5,213
	$ 18,044	$ 5,213
Non-current		
Pledged deposits (performance security deposit)	$ 228	$ 214

a. The ranges of interest rates for time deposits with original maturities of more than 3 months were approximately 0.30%-3.75% and 1%-3.75% per annum as of December 31, 2022 and 2021, respectively.

b. Refer to Note 25 for information relating to investments in financial assets at amortized cost pledged as security.

9. NOTES AND TRADE RECEIVABLES

	December 31	
	2022	2021
Notes receivable	$ 230,217	$ 160,839
Trade receivables	296,656	290,374
	526,873	451,213
Less: Allowance for impairment loss	(1,944)	(1,233)
	$ 524,929	$ 449,980

Notes and Trade Receivables at Amortized Cost

The average credit period for sales of goods is 30 to 90 days. The Group uses other publicly available financial information or its own trading records to rate its major customers. The Group's exposure and the credit ratings of its counterparties are continuously monitored, and the aggregate value of transactions concluded is spread amongst approved counterparties. Credit exposure is controlled by counterparty limits that are reviewed and approved by the risk management committee annually.

The Group measures the loss allowance for notes and accounts receivable at an amount equal to lifetime ECLs. The expected credit losses on notes and accounts receivable are estimated using a provision matrix by reference to the past default experience of the debtor and an analysis of the debtor's current financial position and adjusted for general economic conditions of the industry in which the debtors operate. As the Group's historical credit loss experience does not show significantly different loss patterns for different customer segments, the provision for loss allowance based on past due status is not further distinguished according to the Group's different customer base.

The Group writes off the notes and accounts receivable when there is information indicating that the debtor is in severe financial difficulty and there is no realistic prospect of recovery, e.g., when the debtor has been placed under liquidation, or when the notes and accounts receivable are over 180 days past due, whichever occurs earlier.

The following table details the loss allowance of notes and trade receivables based on the Group's provision matrix.

December 31, 2022

	Not Past Due	1 to 30 Days	31 to 60 Days	61 to 180 Days	Over 180 Days	Total
Gross carrying amount	$ 470,739	$ 43,091	$ 1,989	$ 11,054	$ -	$ 526,873
Loss allowance (Lifetime ECL)	(1,944)	-	-	-	-	(1,944)
Amortized cost	$ 468,795	$ 43,091	$ 1,989	$ 11,054	$ -	$ 524,929

December 31, 2021

	Not Past Due	1 to 30 Days	31 to 60 Days	61 to 180 Days	Over 180 Days	Total
Gross carrying amount	$ 413,181	$ 34,815	$ 3,217	$ -	$ -	$ 451,213
Loss allowance (Lifetime ECL)	(1,211)	(22)	-	-	-	(1,233)
Amortized cost	$ 411,970	$ 34,793	$ 3,217	$ -	$ -	$ 449,980

The movements of the loss allowance of notes and trade receivables were as follows:

	For the Year Ended December 31	
	2022	2021
Balance at the beginning of the period	$ 1,233	$ 824
Add: Impairment losses recognized	711	409
Balance at the end of the period	$ 1,944	$ 1,233

10. INVENTORIES

	December 31	
	2022	2021
Finished goods	$ 129,818	$ 193,443
Work-in-process	184,333	131,933
Raw materials	313,594	149,258
	$ 627,745	$ 474,634

The cost of inventories recognized as the cost of goods sold in the years ended December 31, 2022 and 2021 included $4,760,738 thousand and $3,575,002 thousand, respectively. The cost of goods sold for the years ended December 31, 2022 and 2021 included inventory write-downs of $45,699 thousand and reversals of inventory write-downs of $5,219 thousand, respectively. The reversal of inventory write-downs was due to increased selling prices in certain markets.

11. INVESTMENTS ACCOUNTED FOR USING THE EQUITY METHOD

Investments in Joint Ventures

	December 31			
	2022		2021	
	Original Cost	Carrying Amount	Original Cost	Carrying Amount
Unlisted companies				
Mechema Toda Corporation	$ 150,100	$ 112,074	$ 150,100	$ 127,060

As of December 31, 2022 and 2021, the detail of the proportion of ownership and voting rights in joint ventures were as follows:

	Proportion of Ownership and Voting Rights	
	December 31	
Name of Joint Ventures	2022	2021
Mechema Toda Corporation	50%	50%

In addition, the Group also hold preferred shares do not assign voting rights to their holders, thus shall receive preference share dividends, which were based on sales quantity.

Refer to Table 6 "Information on Investees" for the nature of activities, principal places of business and countries of incorporation of the joint ventures.

Summarized financial information in respect of each of the Group's material joint ventures is set out below.

	December 31	
	2022	2021
Cash and cash equivalents	$ 7,729	$ 11,938
Current financial liabilities (exclude trade payables, other payables and provisions)	$ 256,635	$ 288,353
Current assets	$ 686,383	$ 782,609
Non-current assets	$ 81,715	$ 92,998
Current liabilities	$ 529,670	$ 619,836
Non-current liabilities	$ -	$ -

	For the Year Ended December 31	
	2022	2021
Operating revenue	$ 2,574,615	$ 2,089,507
Depreciation expenses and amortization expenses	$ 37,411	$ 40,811
Net exchange gain	$ 18,778	$ 4,396
Income tax (benefits)/expenses	$ (1,185)	$ 4,620
Net loss for the year	$ (17,344)	$ (9,170)
Dividends received	$ -	$ -
Net loss attributable to preferred stock	$ -	$ -
Net loss attributable to common stock	(17,344)	(9,170)
	$ (17,344)	$ (9,170)

For the years ended December 31, 2022 and 2021, the detail of share of profit or loss of joint ventures were as follows:

	For the Year Ended December 31	
	2022	**2021**
Attributable to preferred stock	$ -	$ -
Attributable to common stock	(8,672)	(4,585)
	$ (8,672)	$ (4,585)

12. PROPERTY, PLANT AND EQUIPMENT

	Freehold Land	Buildings	Equipment	Trans-portation Equipment	Office Equipment	Other Equipment	Total
Cost							
Balance at January 1, 2022	$ 175,357	$ 187,888	$ 237,833	$ 24,648	$ 9,125	$ 16,845	$ 651,696
Additions	9,829	3,486	11,871	1,218	2,951	858	30,213
Disposals	-	-	(281)	-	-	-	(281)
Transfer from prepayments for equipment	-	12,825	7,407	152	3,557	-	23,941
Effect of exchange rate changes	2,053	2,932	6,294	1,043	251	388	12,961
Balance at December 31, 2022	$ 187,239	$ 207,131	$ 263,124	$ 27,061	$ 15,884	$ 18,091	$ 718,530
Accumulated depreciation							
Balance at January 1, 2022	$ -	$ 95,324	$ 199,125	$ 15,522	$ 7,242	$ 12,727	$ 329,940
Depreciation	-	7,240	8,573	2,344	1,146	959	20,262
Disposals	-	-	(281)	-	-	-	(281)
Effect of exchange rate changes	-	1,226	5,359	486	206	383	7,660
Balance at December 31, 2022	$ -	$ 103,790	$ 212,776	$ 18,352	$ 8,594	$ 14,069	$ 357,581
Carrying amount at December 31, 2022	$ 187,239	$ 103,341	$ 50,348	$ 8,709	$ 7,290	$ 4,022	$ 360,949
Cost							
Balance at January 1, 2021	$ 179,076	$ 218,704	$ 238,973	$ 25,553	$ 8,762	$ 16,357	$ 687,425
Additions	-	385	7,242	1,583	1,101	580	10,891
Disposals	-	(28,376)	(8,816)	(1,768)	(316)	(485)	(39,761)
Transfer from prepayments for equipment	-	447	13,088	-	-	1,320	14,855
Effect of exchange rate changes	(3,719)	(3,272)	(12,654)	(720)	(422)	(927)	(21,714)
Balance at December 31, 2021	$ 175,357	$ 187,888	$ 237,833	$ 24,648	$ 9,125	$ 16,845	$ 651,696
Accumulated depreciation							
Balance at January 1, 2021	$ -	$ 118,626	$ 210,295	$ 16,858	$ 7,633	$ 13,339	$ 366,751
Depreciation	-	7,333	8,088	2,353	318	798	18,890
Disposals	-	(28,376)	(8,816)	(1,768)	(316)	(485)	(39,761)
Effect of exchange rate changes	-	(2,259)	(10,442)	(1,921)	(393)	(925)	(15,940)
Balance at December 31, 2021	$ -	$ 95,324	$ 199,125	$ 15,522	$ 7,242	$ 12,727	$ 329,940
Carrying amount at December 31, 2021	$ 175,357	$ 92,564	$ 38,708	$ 9,126	$ 1,883	$ 4,118	$ 321,756

No impairment assessment was performed for the years ended December 31, 2022 and 2021 as there was no indication of impairment.

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

Buildings	
Main buildings	36-56 years
Fire protection engineering	3-8 years
Hydropower engineering	6-10 years
Steel structure engineering	11-16 years
Other buildings	2-16 years
Equipment	3-20 years
Transportation equipment	3-10 years
Office equipment	3-10 years
Other equipment	3-16 years

13. LEASE ARRANGEMENTS

a. Right-of-use assets

	December 31	
	2022	2021
Carrying amount		
Land	$ 15,106	$ 14,950
Transportation equipment	657	1,209
	$ 15,763	$ 16,159

	For the Year Ended December 31	
	2022	2021
Additions to right-of-use assets	$ 351	$ 1,335
Depreciation charge for right-of-use assets		
Land	$ 339	$ 334
Transportation equipment	903	1,125
	$ 1,242	$ 1,459

Other than the above additions and depreciation expense recognized, there were no significant subleases or impairments of the Consolidated Company’s right-of-use assets in 2022 and 2021.

b. Lease liabilities

	December 31	
	2022	**2021**
Carrying amount		
Current	$ 695	$ 706
Non-current	-	516
	$ 695	$ 1,222

Range of discount rates for lease liabilities was as follows:

	December 31	
	2022	**2021**
Transportation equipment	1%	1%

c. Material lease-in activities and terms

Since lands in the PRC and Malaysia could not be directly acquired due to restrictions of laws, they were obtained by way of a lease, and the Group's land use rights in the PRC and Malaysia have been paid in full at the inception of the lease.

d. Other lease information

	For the Year Ended December 31	
	2022	**2021**
Total cash outflow for leases	$ 1,000	$ 1,335

14. INVESTMENT PROPERTIES

	Land	**Buildings**	**Total**
Cost			
Balance at January 1, 2022	$ 6,171	$ 66,935	$ 73,106
Effect of exchange rate changes	91	986	1,077
Balance at December 31, 2022	$ 6,262	$ 67,921	$ 74,183
Accumulated depreciation			
Balance at January 1, 2022	$ 835	$ 57,885	$ 58,720
Depreciation expenses	179	1,790	1,969
Effect of exchange rate changes	12	847	859
Balance at December 31, 2022	$ 1,026	$ 60,522	$ 61,548
Carrying amount at December 31, 2022	$ 5,236	$ 7,399	$ 12,635

(Continued)

	Land	Buildings	Total
Cost			
Balance at January 1, 2021	$ 6,218	$ 67,443	$ 73,661
Effect of exchange rate changes	(47)	(508)	(555)
Balance at December 31, 2021	$ 6,171	$ 66,935	$ 73,106
Accumulated depreciation			
Balance at January 1, 2021	$ 664	$ 56,553	$ 57,217
Depreciation expenses	176	1,758	1,934
Effect of exchange rate changes	(5)	(426)	(431)
Balance at December 31, 2021	$ 835	$ 57,885	$ 58,720
Carrying amount at December 31, 2021	$ 5,336	$ 9,050	$ 14,386

(Concluded)

The Group leased out its property for rental income and reclassified it at its carrying amount as an investment property.

The above items of investment properties are depreciated on a straight-line basis as follows:

Land	50 years
Buildings	20 years

The Group's investment property was located in Xiamen Industrial District, China.

As these districts have neither active markets nor open information, the information on comparable market transactions are uncommon and alternative reliable measurements of the fair value estimates are not available.

The investment properties were leased out for 7 years, with an option to extend. The lease contracts contain market review clauses in the event that the lessees exercise their options to extend.

The total amount of rental payments that will be collected for the lease of investment property under operating leases is as follows:

	December 31	
	2022	2021
Year 1	$ 5,090	$ 1,134
Year 2	5,281	-
Year 3	5,344	-
Year 4	5,545	-
Year 5	5,611	-
Year 6	5,822	-
Year 7	1,473	-
	$ 34,166	$ 1,134

15. PREPAYMENTS

Prepayments are the prepayment to the vendors of inventory.

16. BORROWINGS

a. Short-term borrowings

	December 31	
	2022	2021
Line of credit borrowings	$ 789,473	$ 627,000

The above amounts represented the revolving facility (for operating capital demand) of a bank loan. The range of weighted average effective interest rates on bank loans was 1.40%-5.67% and 0.84%-0.85% per annum on December 31, 2022 and 2021.

b. Short-term bills payable

	December 31	
	2022	2021
Commercial paper	$ -	$ 250,000

Outstanding short-term bills payable were as follows:

December 31, 2021

Promissory Institution	Nominal Amount	Discount Amount	Carrying Amount	Interest Rate	Collateral	Carrying Amount of Collateral
Dah Chung Bills Finance Corporation	$ 50,000	$ -	$ 50,000	0.86%	-	$ -
Mega Bills Finance Co., Ltd.	50,000	-	50,000	0.87%	-	-
Taiwan Finance Corporation	50,000	-	50,000	0.85%	-	-
Ta Ching Bills Finance Corporation	50,000	-	50,000	0.85%	-	-
International Bills Finance Corporation	50,000	-	50,000	0.87%	-	-
	$ 250,000	$ -	$ 250,000			$ -

The commercial papers were not discounted because the effect was not material.

c. The above items of borrowings of the Group have been jointly guaranteed by the chairman of the board of the Company.

17. 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 the LPA, the Company makes monthly contributions to employees' individual pension accounts at 6% of monthly salaries and wages.

The employees of the Group's subsidiaries in PRC, Korea and Malaysia are members of a state-managed retirement benefit plan operated by the government of PRC, Korea and Malaysia. The subsidiaries are required to contribute a specified percentage of payroll costs to the retirement benefits 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 of the ROC. 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.

18. EQUITY

a. Share capital

Ordinary shares

	December 31	
	2022	**2021**
Numbers of shares authorized (in thousands)	86,000	86,000
Shares authorized	$ 860,000	$ 860,000
Number of shares issued and fully paid (in thousands)	74,986	74,986
Shares issued	$ 749,863	$ 749,863

Ordinary shares are issued with a nominal amount of NT$10 per share. All of the shares were ordinary shares, each carrying the right to vote and receive dividends.

b. Capital surplus

From the conversion of bonds, 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 to once a year).

c. Retained earnings and dividends policy

Under the dividends policy as set forth in the amended Articles, where the Company made a profit in a fiscal year, the profit shall be first utilized for paying taxes, offsetting losses of previous years, setting aside as legal reserve 10% of the remaining profit, setting aside or reversing a special reserve in accordance with the laws and regulations, and then any remaining profit together with any undistributed retained earnings shall be used by the 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 before and after amendment, refer to Note 19(d).

If the dividends referred to in the preceding paragraph are distributed in cash, the board of directors shall be authorized with the presence of at least two-thirds of the directors and the approval of a majority of the directors present and to report the matter to the shareholders’ meeting.

In accordance with Article 241 of the Company Act, the Company shall distribute all or part of the legal reserve and capital surplus in new shares or cash in proportion to the shareholders’ original shares and shall authorize the board of directors to resolve the matter with the presence of at least two-thirds of the directors and the approval of a majority of the directors present and to report the matter to the shareholders’ meeting.

In addition to referring general distribution level of dividends, the Company’s dividend policy is based on the consideration of the future capital needs and long-term financial planning.

Shareholders’ dividends and bonuses shall be appropriated for an amount more than 50% of the distributable earnings in the current year; also, the distribution of dividends shall include at least 10% in cash and 90% in stock.

The type of distribution may change according to circumstances of profitability and capital and may be adjusted during the annual shareholders’ meeting.

The appropriation of earnings to a legal reserve shall be made until the accumulated legal reserve equals the Company’s paid-in capital. The legal reserve may be used to offset deficits. 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.

The appropriations of earnings for 2021 and 2020 were approved in the shareholders’ meetings on June 22, 2022 and July 7, 2021, respectively, and were as follows:

	Appropriation of Earnings	
	2021	**2020**
Legal reserve	$ 36,021	$ 12,338
Special reserve	$ 39,116	$ 6,796
Cash dividends	$ 284,948	$ 104,231
Cash dividends per share (NT$)	$ 3.80	$ 1.39

The appropriation of earnings for 2022, which was proposed by the Company's board of directors on March 22, 2023, was as follows:

	2022
Legal reserve	$ 38,270
Special reserve	$ (22,070)
Cash dividends	$ 344,937
Cash dividends per share (NT$)	$ 4.60

The appropriation of earnings for 2022 is subject to the resolution of the shareholders in the shareholders' meeting to be held on June 27, 2023.

d. Special reserve

On the first-time adoption of IFRSs, the Company appropriated for special reserve, the amounts that were the same as the cumulative translation differences transferred to retain earnings, which were $29,383 thousand.

Additional special reserves should be appropriated for the amount equal to the difference between net debit balance reserves. Any special reserve appropriated may be reversed to the extent that the net debit balance reverses and, thereafter, distributed.

As of December 31, 2021 and 2020, exchange differences on translating foreign operations were negative and exceeded the amount on account.

In response to the aforementioned regulations, the Company recognized special reserves of $39,116 thousand and $6,796 thousand, respectively, which were made in the appropriations of earnings for 2021 and 2020.

e. Other equity

Exchange differences relating to the translation of the results and net assets of the Company's foreign operations from their functional currencies to the Company's presentation currency were recognized directly in other comprehensive income and accumulated in the foreign currency translation reserve. When all or a part of the foreign operations are disposed of, exchange differences previously accumulated in the foreign currency translation reserve were reclassified to profit or loss on the disposal of the foreign operation.

19. NET PROFIT

a. Net revenue

	For the Year Ended December 31	
	2022	2021
Revenue from contracts with customers		
Revenue from sale of goods	$ 5,271,498	$ 4,126,416

1) Contract information

Revenue from the sale of goods

The Group sells battery cathode materials and oxidation catalysts, which are manufactured by clients' orders and recognizes revenue at which time the goods are delivered to the customer's specific location. The Group does not provide any after-sales services, such as warranty, right to return, etc. The quotation of products is based on the current market price of the raw materials and the expected profit. The term of sales of products is fixed price, not volatile. Since payment terms granted to customers are usually less than 120 days, there is no significant financing component from contracts with customers.

2) Contact balances

	December 31	
	2022	**2021**
Notes and trades receivable, net (Note 9)	$ 524,929	$ 449,980
Trades receivable from related parties (Note 24)	$ 258,380	$ 303,414

3) Disaggregation of revenue from customer contracts

2022

	Battery Material Department	**Oxidation Catalyst**	**Total**
Sale of goods	$ 2,488,963	$ 2,782,535	$ 5,271,498

2021

	Battery Material Department	**Oxidation Catalyst**	**Total**
Sale of goods	$ 2,108,730	$ 2,017,686	$ 4,126,416

b. Depreciation and amortization

	For the Year Ended December 31	
	2022	**2021**
Property, plant and equipment	$ 20,262	$ 18,890
Investment properties	1,969	1,934
Right-of-use assets	1,242	1,459
Long-term prepaid expenses	2,786	1,540
	$ 26,259	$ 23,823
An analysis of deprecation by function		
Operating costs	$ 14,415	$ 13,562
Operating expenses	9,058	8,721
	$ 23,473	$ 22,283

(Continued)

	For the Year Ended December 31	
	2022	2021
An analysis of amortization by function		
Operating costs	$ 2,371	$ 1,173
Operating expenses	415	367
	$ 2,786	$ 1,540

(Concluded)

c. Employee benefits expense

	For the Year Ended December 31	
	2022	2021
Short-term benefits		
Salaries and wages	$ 97,160	$ 87,801
Insurance premiums for employee	6,266	5,363
	103,426	93,164
Post-employment benefits		
Defined contribution plans	2,474	3,093
Other employee benefits	5,099	4,127
Total employee benefits expense	$ 110,999	$ 100,384
An analysis of employee benefits expense by function		
Operating costs	$ 46,619	$ 40,476
Operating expenses	64,380	59,908
	$ 110,999	$ 100,384

d. The Company distributed employees' compensation and directors' remuneration at the rates of not less than 1% and not higher than 5%, respectively, of net profit before income tax, employees' compensation and remuneration of directors. The employees' compensation and remuneration of directors for the years ended December 31, 2022 and 2021, which have been approved by the Company's board of directors on March 22, 2023 and March 17, 2022, respectively, were as follows:

	2022		2021	
	Employees' Compensation in Cash	Remuneration of Directors in Cash	Employees' Compensation in Cash	Remuneration of Directors in Cash
Amounts approved in the board of directors' meeting	$ 5,896	$ 2,200	$ 4,330	$ 2,000
Amounts recognized in the annual financial statements	$ 5,896	$ 2,000	$ 4,330	$ 2,000

If there is a change in the amounts after the actual consolidated financial statements are authorized for issue, the difference is recorded as a change in the accounting estimate.

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

20. INCOME TAXES

a. Income tax expense recognized in profit or loss

	For the Year Ended December 31	
	2022	2021
Current tax		
In respect of the current period	$ 104,978	$ 98,984
Income tax on unappropriated earnings	6	1
Adjustments for prior year	312	825
	105,296	99,810
Deferred tax		
In respect of the current period	(5,351)	(119)
Income tax expense recognized in profit or loss	$ 99,945	$ 99,691

A reconciliation of accounting profit and current income tax expense is as follows:

	For the Year Ended December 31	
	2022	2021
Profit before tax from continuing operations	$ 481,270	$ 460,325
Income tax expense at the statutory rate	$ 99,013	$ 115,390
Nondeductible expenses and tax-exempt income in determining taxable income	2,418	4,881
Unrecognized loss carryforwards and deductible temporary differences	(1,804)	(21,406)
Income tax on unappropriated earnings	6	1
Adjustment for prior year's tax	312	825
Income tax expense recognized in profit or loss	$ 99,945	$ 99,691

The local tax rate in Taiwan is 20%. The local tax rate in PRC is 25%. The tax rate in Korea is a progressive tax. The tax rate is 10% on the first KRW200 million of taxable income, 20% on taxable income over KRW200 million up to KRW20 billion, and 22% on taxable income over KRW20 billion. The local tax rates in Thailand, Indonesia and Malaysia are 20%, 22% and 24%, respectively.

b. Current tax assets and liabilities

	December 31	
	2022	2021
Current tax assets		
Tax refund receivable	$ 11,709	$ -
Current tax liabilities		
Income tax payable	$ 106,794	$ 68,071

c. Deferred tax assets and liabilities

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

For the year ended December 31, 2022

	Opening Balance	Recognized in Profit or Loss	Closing Balance
Deferred tax assets			
Temporary differences			
Depreciation expense	$ 836	$ (487)	$ 349
Unrealized gross profit	3,888	(1,437)	2,451
Allowance for written-down inventories	332	9,140	9,472
Unrealized gain	504	(300)	204
	$ 5,560	$ 6,916	$ 12,476
Deferred tax liabilities			
Temporary differences			
Financial assets at FVTPL	$ 3,680	$ 1,536	$ 5,216
Defined benefit obligations	176	29	205
	$ 3,856	$ 1,565	$ 5,421

For the year ended December 31, 2021

	Opening Balance	Recognized in Profit or Loss	Closing Balance
Deferred tax assets			
Temporary differences			
Depreciation expense	$ 1,324	$ (488)	$ 836
Unrealized gross profit	2,221	1,667	3,888
Allowance for written-down inventories	1,377	(1,045)	332
Unrealized gain	66	438	504
	$ 4,988	$ 572	$ 5,560
Deferred tax liabilities			
Temporary differences			
Financial assets at FVTPL	$ 3,262	$ 418	$ 3,680
Defined benefit obligations	141	35	176
	$ 3,403	$ 453	$ 3,856

d. Unused loss carryforwards for which no deferred tax assets have been recognized in the consolidated balance sheets

	December 31	
	2022	2021
Loss carryforwards	$ 33,911	$ 46,944

e. The aggregate amount of temporary differences associated with investments for which deferred tax liabilities have not been recognized

As of December 31, 2022 and 2021, the taxable temporary differences associated with investments in subsidiaries for which no deferred tax liabilities have been recognized were $311,205 thousand and $305,908 thousand, respectively.

f. Income tax assessments

The Company's income tax returns through 2020 have been examined by the tax authorities. The Company's subsidiaries are located in PRC, Korea, Indonesia and Thailand. The aforementioned tax authorities will not take the initiative to send tax return assessments to enterprises. When there are tax disputes, they issue a tax payment notice to enterprises and reserve the right to propose additional taxes.

21. EARNINGS PER SHARE

	For the Year Ended December 31	
	2022	2021
Basic earnings per share	$ 5.09	$ 4.81
Diluted earnings per share	$ 5.08	$ 4.81

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

Net Profit for the Year

	For the Year Ended December 31	
	2022	2021
Earnings used in the computation of basic earnings per share	$ 381,325	$ 360,634
Earnings used in the computation of diluted earnings per share	$ 381,325	$ 360,634

The weighted average number of ordinary shares outstanding (in thousand shares):

	For the Year Ended December 31	
	2022	2021
Weighted average number of ordinary shares used in the computation of basic earnings per share	74,986	74,986
Effect of potentially dilutive ordinary shares:		
Employees' compensation	66	33
Weighted average number of ordinary shares used in the computation of diluted earnings per share	75,052	75,019

The Company may settle compensation or bonuses paid to employees in cash or shares; therefore, the

Company assumes that the entire amount of the compensation or bonuses will be settled in shares and the resulting potential shares will be 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.

22. CAPITAL MANAGEMENT

The Group manages its capital to ensure that entities in the Group will be able to continue as going concerns while maximizing the return to shareholders through the optimization of the debt and equity balance.

The Group regularly reviews the appropriate categories of capital structure. The Group managers determine a reasonable proportion of the Group's capital structure based on the cost of capital and the risks associated with the various types of capital. The Group is not subject to any externally imposed capital requirements.

23. FINANCIAL INSTRUMENTS

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

Management believes the carrying amounts of financial instruments not measured at fair value (Cash and cash equivalents, financial assets at amortized cost, notes and trades receivable, trades receivable from related parties, other receivables, other receivables from related parties and refundable deposits) and financial liabilities (short-term borrowings, short-term bills payable, notes and trade payables and other payables) recognized in the consolidated financial statements approximate their fair values.

b. Fair value of financial instruments measured at fair value on a recurring basis

December 31, 2022

	Level 1	Level 2	Level 3	Total
Financial assets at FVTPL				
Mutual funds	$ 43,068	$ -	$ -	$ 43,068

December 31, 2021

	Level 1	Level 2	Level 3	Total
Financial assets at FVTPL				
Mutual funds	$ 35,385	$ -	$ -	$ 35,385

There were no transfers between Levels 1 and 2 in the current and prior periods.

c. Categories of financial instruments

	December 31 2022	December 31 2021
Financial assets		
Financial assets at FVTPL		
Mandatorily classified as at FVTPL	$ 43,068	$ 35,385
Financial assets at amortized cost (Note 1)	1,222,330	1,203,744
Financial liabilities		
Financial liabilities measured at amortized cost (Note 2)	880,961	982,345

Note 1: The balance includes financial assets at amortized cost, which comprise cash and cash equivalents (including pledged deposits), notes and trade receivables (included related parties), other receivables (included related parties) and guarantee deposits, etc.

Note 2: The balance includes financial liabilities at amortized cost, which comprise bank borrowings, short-term bills payable, notes and trade payables and other payables, etc.

d. Financial risk management objectives and policies

Based on the internal report containing analysis of the exposure of and the amount involved in risks by financial units, the Group monitors and manages financial risks relating to the enterprise as a whole, the domestic and international financial market and the operations of the Group. These risks include market risk (foreign exchange risk and interest rate risk), credit risk and liquidity risk.

Financial units of the Group constantly report to the management. Management will then monitor the risks and execute policies according to its duties and responsibilities so as to mitigate exposure.

1) Market risk

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

a) Foreign currency risk

The Group has foreign currency-denominated transactions that are exposed to the risk caused by the fluctuation of exchange rates in the market. To monitor the risk, the responsible team of the Group reviews constantly the portion of assets and liabilities that are exposed to the risk and makes the appropriate adjustments so as to control any risk arising from the fluctuation of exchange rates.

Since the principal currency of the Group is the US dollar, thus the Group is exposed to the risk of exchange rate fluctuation. Fortunately, the risk is mitigated as the majority of receivables and payables and bank borrowings are denominated in US dollars.

The carrying amounts of the Group's foreign currency-denominated monetary assets and monetary liabilities and of the derivatives exposed to foreign currency risk at the end of the reporting period are set out in Note 29.

Sensitivity analysis

The Group was mainly exposed to the U.S. dollar ("USD").

The following table details the Group's sensitivity to a 10% increase and decrease in the New Taiwan dollar (i.e., the functional currency) against the relevant foreign currencies. A 10% is the sensitivity rate used when reporting foreign currency risk internally to key management personnel and represents management's assessment of the reasonably possible change in foreign exchange rates. The sensitivity analysis included only outstanding foreign currency-denominated monetary items and foreign currency forward contracts designated as cash flow hedges, and it adjusts their translation at the end of the reporting period for a 10% change in foreign currency rates. A positive number below indicates an increase in pre-tax profit associated with the New Taiwan dollar weakening 10% against the relevant currency. For a 10% strengthening of the New Taiwan dollar against the relevant currency, there would be an equal and opposite impact on pre-tax profit, and the balances below would be negative.

	USD Impact	
	For the Year Ended December 31	
	2022	**2021**
Profit or loss*	$ 5,970	$ 42,558

* This was mainly attributable to the exposure outstanding on USD cash and cash equivalents, receivables and payables, which were not hedged at the end of the reporting period.

b) Interest rate risk

The Group is subject to interest rate risk arising from bank deposits and borrowings bearing floating interest rates. The current policy of the Group is to maintain borrowings bearing a floating interest rate so as to mitigate risk arising from interest rate fluctuation. There is no financial instrument held for hedging purposes. Management of the Group reviews interest rate risk periodically and will implement measures when necessary to address significant interest rate risk for proper monitoring in light of any change in market interest rate.

Sensitivity analysis

The following sensitivity analysis is prepared based on the exposure to the interest rate of the non-derivative instruments at the end of the reporting period.

A 0.5% increase or decrease has been used by the Group as a reasonable estimation of interest rate fluctuation when reporting to the management. With other variations remaining unchanged, without taking into account capitalization of interests, if the interest rate increased by 0.5%, the profit and loss of the Group for the years ended 2022 and 2021 would have been decreased by $2,026 thousand and $946 thousand, respectively.

2) Credit risk

Credit risk refers to the risk that a counterparty will default on its contractual obligations resulting in a financial loss to the Group. In order to minimize credit risk, the management of the Group has delegated a team responsible for the determination of credit limits, credit approvals and other monitoring procedures to ensure that follow-up action is taken to recover overdue debts. In addition, the Group reviews the recoverable amount of each individual trade debt at the end of the reporting period to ensure that adequate allowance is made for irrecoverable amounts.

The Group transacted with a large number of customers who are mainly internationally renowned brands of chemical business and are not connected. Credit assessments on the financial status of the clients have been conducted. Therefore, it is expected that the credit risk from accounts receivables is minimal.

The maximum exposure of the Group to credit risk is the net amount of carrying amount less the amount required to be offset and impairment loss required to be recognized under relevant rules (i.e., carrying amount of financial assets), without taking into account any security and other credit enhancement.

3) Liquidity risk

The Group manages liquidity risk by monitoring and maintaining a level of cash and cash equivalents deemed adequate to finance the Group's operations and mitigates the effects of fluctuations in cash flows. In addition, management monitors the utilization of bank borrowings and ensures compliance with loan covenants.

The Group relies on bank borrowings as a significant source of liquidity. As of December 31, 2022 and 2021, the Group had available unutilized overdraft and short-term bank loan facilities as set out in (b) below.

a) Liquidity and interest rate risk table

The following table details the Group's remaining contractual maturity for its non-derivative financial liabilities with agreed repayment periods. The table was drawn up based on the undiscounted cash flows of financial liabilities from the earliest date on which the Group can be required to pay. The table includes both interest and principal cash flows. Specifically, bank loans with a repayment-on-demand clause were included in the earliest time band regardless of the probability of the banks choosing to exercise their rights. The maturity dates for other non-derivative financial liabilities were based on the agreed repayment dates.

To the extent that interest rates are floating, the undiscounted amount was derived from the interest rate curve at the end of the reporting period.

December 31, 2022

	Weighted Average Effective Interest Rate (%)	Less Than 1 Year	1 Year to 5 Years	Total
Non-interest bearing liabilities				
Notes payable and trade payables	-	$ 40,094	$ -	$ 40,094
Other payables	-	51,394	-	51,394
Lease liabilities	-	695	-	695
Interest bearing liabilities				
Short-term borrowings	2.54%	789,473	-	789,473
		$ 881,656	$ -	$ 881,656

December 31, 2021

	Weighted Average Effective Interest Rate (%)	Less Than 1 Year	1 Year to 5 Years	Total
Non-interest bearing liabilities				
Notes payable and trade payables	-	$ 60,697	$ -	$ 60,697
Other payables	-	44,648	-	44,648
Lease liabilities	-	706	516	1,222
Interest bearing liabilities				
Short-term borrowings	0.85%	627,000	-	627,000
Short-term bills payable	0.86%	250,000	-	250,000
		$ 983,051	$ 516	$ 983,567

b) Financing facilities

	December 31 2022	2021
Unsecured bank loan facilities:		
Amount unutilized	$ 1,545,192	$ 1,144,440

24. 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 party name and relationship

Related Party Name	Relationship with the Company
Mechema Toda Corporation	Joint venture (please refer to Note 11)

b. Sales of goods

Line Item	Related Party Name	For the Year Ended December 31 2022	2021
Sales	Mechema Toda Corporation	$ 2,488,963	$ 2,108,730

There are no comparable unrelated parties due to payment terms offered to related parties being similar to those offered to third parties.

c. Trade receivables from related parties

Related Party Name	December 31 2022	December 31 2021
Mechema Toda Corporation	$ 258,380	$ 303,414

The outstanding trade receivables from related parties are unsecured. For the years ended December 31, 2022 and 2021, no impairment loss was recognized for trade receivables from related parties.

d. Other transactions with related parties

1) Rental income

Related Party Name	For the Year Ended December 31 2022	For the Year Ended December 31 2021
Mechema Toda Corporation	$ 10,806	$ 10,806

2) Commission income

Related Party Name	For the Year Ended December 31 2022	For the Year Ended December 31 2021
Mechema Toda Corporation	$ 3,252	$ 1,101

3) Other income

Related Party Name	For the Year Ended December 31 2022	For the Year Ended December 31 2021
Mechema Toda Corporation	$ 22,523	$ 23,923

Other income includes income from human resources outsourcing and product inspection.

4) Other receivables from related parties

Related Party Name	December 31 2022	December 31 2021
Mechema Toda Corporation	$ 3,567	$ 3,275

Other receivables from related parties were generated by the collection and payment service, commission income and other income.

4) Other payables to related parties

Related Party Name	December 31 2022	December 31 2021
Mechema Toda Corporation	$ 45	$ -

e. Compensation of key management personnel

	For the Year Ended December 31	
	2022	2021
Short-term employee benefits		
Salaries and wages	$ 31,011	$ 29,129
Post-employment benefits	662	602
	$ 31,673	$ 29,731

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

25. ASSETS PLEDGED AS COLLATERAL

The following assets were provided as collateral for bank guarantee and the deposits for administrative purposes:

	December 31	
	2022	2021
Pledged deposits (classified as financial assets at amortized cost)		
Current	$ 2,204	$ 5,213
Non-current	228	214
	$ 2,432	$ 5,427

26. SIGNIFICANT CONTINGENT LIABILITIES AND UNRECOGNIZED COMMITMENTS

In addition to those disclosed in other notes, significant contingencies and unrecognized commitments of the Group on December 31, 2022 and 2021 were as follows:

As of December 31, 2022, subsidiaries were guaranteed by the Company, which were $122,840 thousand. Please refer to Table 2 of Note 30.

27. CASH FLOW INFORMATION

Investing and financing activities that affect both cash and non-cash items:

	For the Year Ended December 31	
	2022	2021
Increase in property, plant and equipment	$ 30,213	$ 10,891
(Increase) decrease in payables for purchased equipment	(165)	1,944
Payment in cash for the acquisition of property, plant and equipment	$ 30,048	$ 12,835

28. OTHERS

Management believes that the pandemic did not have a significant impact on the Group's operating continuation or asset impairment.

29. SIGNIFICANT ASSETS AND LIABILITIES DENOMINATED IN FOREIGN CURRENCIES

The group entities' 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, 2022

	Foreign Currency	Function Currency	Exchange Rate (Note)	Carrying Amount
Financial assets				
Monetary items				
USD	$ 7,537	NTD	30.71	$ 231,468
USD	19	IDR	30.71	584
USD	960	KRW	30.71	29,480
USD	31	THB	30.71	952
USD	23	MYR	30.71	721
USD	448	USD	30.71	13,764
				$ 276,969
Financial liabilities				
Monetary items				
USD	7,075	NTD	30.71	$ 217,267
				$ 217,267

December 31, 2021

	Foreign Currency	Function Currency	Exchange Rate (Note)	Carrying Amount
Financial assets				
Monetary items				
USD	$ 19,016	NTD	27.68	$ 526,362
USD	19	IDR	27.68	528
USD	2,140	KRW	27.68	59,239
USD	3,357	THB	27.68	92,926
USD	34	MYR	27.68	950
USD	447	USD	27.68	12,379
				$ 692,384
Financial liabilities				
Monetary items				
USD	2,895	THB	27.68	$ 80,147
USD	2,031	KRW	27.68	56,231
USD	2,151	NTD	27.68	59,551
USD	1,007	IDR	27.68	27,881
USD	301	MYR	27.68	8,341
USD	1,252	RMB	27.68	34,652
				$ 266,803

Note: Exchange rates represent the closing exchange rate of foreign currency into New Taiwan dollars.

Information on foreign exchange gains and losses in 2022 and 2021 were as follows:

	For the Year Ended December 31	
	2022	2021
Unrealized foreign exchange gain (loss)	$ 1,803	$ (2,099)
Realized foreign exchange gain	80,004	530
Net foreign exchange gain (loss)	$ 81,807	$ (1,569)

It is impractical to disclose net foreign exchange gain (loss) by each significant foreign currency due to the variety of foreign currency transactions and functional currencies of the group entities.

30. SEPARATELY DISCLOSED ITEMS

a. Information on significant transactions and information on investees

1) Financing provided to others (Table 1)

2) Endorsements/guarantees provided (Table 2)

3) Marketable securities held (excluding investments in subsidiaries, associates and joint ventures) (Table 3)

4) Marketable securities acquired or 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 4)

8) Receivables from related parties of at least NT$100 million or 20% of paid-in capital. (Table 5)

9) Trading in derivative instruments (None)

10) Information on investees (Table 6)

11) Intercompany relationships and significant intercompany transactions (Table 8)

b. 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, inflow and outflow of capital, percentage of ownership, investment gain or loss, ending balance, the amount received as dividends from the investee and limitation on investee. (Table 7)

2) 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 7)

   a) The purchase amounts and percentage of total purchases and the payables' balances and percentage of the total payables at the end of the period.

   b) The sales amount and percentage of total sales and the receivables' balances and percentage of the total receivables at the end of the period.

   c) The amount of real estate property transactions and the amount of the related gains or losses.

   d) The ending balance of negotiable instrument endorsements/guarantees or pledges of collateral and the related purposes.

   e) The highest balance during the period, the ending balance, the interest rate range, and total interest for the period in respect of financial funding.

   f) Other transactions that have a significant effect on the profit or loss or the financial position, such as the rendering or receipt of services.

c. Major Shareholder Information

Shareholder name, shareholding shares and proportion with share ratio is more than 5% (Table 9)

31. SEGMENT INFORMATION

a. Operating segments

Information reported to the chief operating decision maker for the purpose of resource allocation and assessment of segment performance focuses on the types of goods or services delivered or provided. The Group focuses its business mainly on the manufacturing and sales of Cobalt and Manganese and their compounds, and the operating income of the operating activities accounts for more than 90% of the total revenue. According to IFRS 8, the Group has organized management and resource allocation in a single department.

b. Geographical information

The Group's non-current assets located in a single foreign country (excluding financial instruments, deferred tax assets and defined benefit assets) and information about its revenue by geographical location are detailed below:

	2022		2021	
	Non-current Assets	Net Sales	Non-current Assets	Net Sales
Taiwan	$ 274,191	$ 2,911,707	$ 265,504	$ 2,419,640
China	53,286	419,518	52,136	397,202
Korea	54,533	320,360	34,849	263,351
Thailand	14,413	334,991	14,654	167,624
Malaysia	7,311	35,543	7,034	32,129
Indonesia	7,351	158,054	5,901	171,088
Others	-	1,091,325	-	675,382
	$ 411,085	$ 5,271,498	$ 380,078	$ 4,126,416

c. Information on major customers

Customers representing more than 10% of the Group's total income as shown in the consolidated statements of comprehensive income were as follows:

	For the Year Ended December 31			
	2022		2021	
	Amount	%	Amount	%
Company A	$ 2,488,963	47	$ 2,108,730	51

TABLE 1

MECHEMA CHEMICALS INTERNATIONAL CORP. AND SUBSIDIARIES

FINANCING PROVIDED TO OTHERS
FOR THE YEAR ENDED DECEMBER 31, 2022
(In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

No.	Lender	Borrower	Financial Statement Account	Related Party	Highest Balance for the Period	Ending Balance	Actual Borrowing Amount	Interest Rate (%)	Nature of Financing	Business Transaction Amount	Reasons for Short-term Financing	Allowance for Impairment Loss	Collateral		Financing Limit for Each Borrower (Note 1)	Aggregate Financing Limit (Note 2)
													Item	Value		
0	The Company	Mechema Chemical (Malaysia) Co., Ltd.	Other receivables from related parties	Yes	US$1,000 thousand (equivalent to NT$32,215 thousand)	US$1,000 thousand (equivalent to NT$30,710 thousand)	US$300 thousand (equivalent to NT$9,213 thousand)	4	The need for short-term financing	$ -	Operating capital	$ -	-	$ -	$ 150,121	$ 450,363
		Mechema Chemical (Shang Yu) Co., Ltd.	Other receivables from related parties	Yes	US$1,000 thousand (equivalent to NT$32,215 thousand)	US$1,000 thousand (equivalent to NT$30,710 thousand)	-	4	The need for short-term financing	-	Operating capital	-	-	-	150,121	450,363
		Mechema Chemical (Xiamen) Co., Ltd.	Other receivables from related parties	Yes	US$1,000 thousand (equivalent to NT$32,215 thousand)	US$1,000 thousand (equivalent to NT$30,710 thousand)	-	4	The need for short-term financing	-	Operating capital	-	-	-	150,121	450,363

Note 1: The Company’s lending limits for individual counterparties shall not exceed 10% of the net worth of the net value of the most recent financial statements reviewed or audited by the CPA.

Note 2: The total financing limit amount for the Company shall not exceed 30% of the net worth of the net value of the most recent financial statements reviewed or audited by the CPA.

Note 3: According to the Company’s guidance of financing provided to others, the amount financing limit is based on the net value of the most recent financial statements reviewed or audited by the CPA. The information on the limit of endorsements/guarantees announced by the Company in December 2022 were $152,589 thousand and $457,767 thousand, respectively, which were different from the amounts listed above, and the reason is that the financial statements of the Company for the year ended December 31, 2022 have not been audited by CPA at the announcement moment; thus, the Company announced the information based on the financial statement for the nine months ended September 30, 2022.

TABLE 2

MECHEMA CHEMICALS INTERNATIONAL CORP. AND SUBSIDIARIES

ENDORSEMENTS/GUARANTEES PROVIDED
FOR THE YEAR ENDED DECEMBER 31, 2022
(In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

No. (Note 1)	Endorser/Guarantor	Endorsee/Guarantee		Limit on Endorsement/ Guarantee Given on Behalf of Each Party (Note 4)	Maximum Amount Endorsed/ Guaranteed During the Period	Outstanding Endorsement/ Guarantee at the End of the Period	Actual Borrowing Amount	Amount Endorsed/ Guaranteed by Collateral	Ratio of Accumulated Endorsement/ Guarantee to Net Equity in Latest Financial Statements (%)	Aggregate Endorsement/ Guarantee Limit (Note 3)	Endorsement/ Guarantee Given by Parent on Behalf of Subsidiaries	Endorsement/ Guarantee Given by Subsidiaries on Behalf of Parent	Endorsement/ Guarantee Given on Behalf of Companies in Mainland China
		Name	Relationship (Note 2)										
0	The Company	PT Mechema Indonesia	b.	$ 300,242	US$50 thousand (equivalent to NT$1,588 thousand)	-	$ -	$ -	-	$ 450,363	Yes	No	No
		Mechema Chemicals (Thailand) Co., Ltd.	b.	300,242	US$400 thousand (equivalent to NT$12,886 thousand)	US$400 thousand (equivalent to NT$12,284 thousand)	-	-	0.82	450,363	Yes	No	No
		Mechema Korea Co., Ltd.	b.	300,242	US$900 thousand (equivalent to NT$28,994 thousand)	US$900 thousand (equivalent to NT$27,639 thousand)	-	-	1.84	450,363	Yes	No	No
		Mechema Chemical (Xiamen) Co., Ltd.	b.	300,242	US$900 thousand (equivalent to NT$28,994 thousand)	US$900 thousand (equivalent to NT$27,639 thousand)	-	-	1.84	450,363	Yes	No	Yes
		Mechema Chemical (Shang Yu) Co., Ltd.	b.	300,242	US$1,800 thousand (equivalent to NT$57,987 thousand)	US$1,800 thousand (equivalent to NT$55,278 thousand)	-	-	3.68	450,363	Yes	No	Yes

Note 1: The items are numbered as follows:

a. Issuer is numbered as “0”.
b. Investee companies are numbered from “1”.

Note 2: Relationships between the endorser/guarantor and the endorsee/guarantee receiver:

a. The Company in relation to business.
b. The Company which holds, directly or indirectly, over 50% of the voting shares.

Note 3: The aggregate amount of endorsements/guarantees provided by the Company shall not exceed 30% of the net worth of the net value of the most recent financial statements reviewed or audited by the CPA.

Note 4: The maximum amount of financing provided to an individual shall not exceed 20% of the net worth of the net value of the most recent financial statements reviewed or audited by the CPA.

Note 5: According to the Company’s guidance of financing provided to others, the amount financing limit is based on the net value of the most recent financial statements reviewed or audited by the CPA. The information on the limit of endorsements/guarantees announced by the Company in December 2022 were $305,178 thousand and $457,767 thousand, respectively, which were different from the amounts listed above, the reason is that the financial statements of the Company for the year ended December 31, 2022 have not been audited by CPA at the announcement moment, thus the Company announced the information based on the financial statement for the nine months ended September 30, 2022.

TABLE 3

MECHEMA CHEMICALS INTERNATIONAL CORP. AND SUBSIDIARIES

MARKETABLE SECURITIES HELD
DECEMBER 31, 2022
(In Thousands of New Taiwan Dollars)

Holding Company Name	Type and Name of Marketable Securities	Relationship with the Holding Company	Financial Statement Account	December 31, 2022				Note
				Number of Shares	Carrying Amount	Percentage of Ownership (%)	Fair Value	
The Company	Mutual funds Powerfund - Class A	-	FVTPL - current	350,333	$ 43,068	-	$ 43,068	

TABLE 4

MECHEMA CHEMICALS INTERNATIONAL CORP. AND SUBSIDIARIES

TOTAL PURCHASES FROM OR SALES TO RELATED PARTIES AMOUNTING TO AT LEAST NT$100 MILLION OR 20% OF THE PAID-IN CAPITAL
DECEMBER 31, 2022
(In Thousands of New Taiwan Dollars)

Buyer	Related Party	Relationship	Transaction Details				Abnormal Transaction		Notes/Accounts Receivable (Payable)		Note
			Purchase/ Sale	Amount	% of Total	Payment Terms	Unit Price	Payment Terms	Ending Balance	% of Total	
The Company	Mechema Toda Corporation	Affiliates using the equity method	Sale	$ (2,488,963)	(49)	90 days	$ -	90 days	$ 258,380	39	
	Mechema Chemicals (Thailand) Co., Ltd.	Subsidiary	Sale	(579,154)	(11)	240 days	-	240 days	195,646	29	
Mechema Chemicals (Thailand) Co., Ltd.	The Company	Parent	Purchase	579,154	95	240 days	-	240 days	(195,646)	(99)	
The Company	Mechema Korea Co., Ltd.	Subsidiary	Sale	(483,803)	(9)	240 days	-	240 days	31,850	5	
Mechema Korea Co., Ltd.	The Company	Parent	Purchase	483,803	97	240 days	-	240 days	(31,850)	(98)	
	The Company	Parent	Sale	(201,873)	(38)	240 days	-	240 days	-	-	
The Company	Mechema Korea Co., Ltd.	Subsidiary	Purchase	201,873	4	240 days	-	240 days	-	-	
Mechema Chemicals (Thailand) Co., Ltd.	PT Mechema Indonesia	Fellow subsidiary	Sale	(212,921)	(35)	240 days	-	240 days	75,293	35	
PT Mechema Indonesia	Mechema Chemicals (Thailand) Co., Ltd.	Fellow subsidiary	Purchase	212,921	93	240 days	-	240 days	(75,293)	(96)	
Mechema Chemicals (Thailand) Co., Ltd.	Mechema Chemical (Shang Yu) Co., Ltd.	Fellow subsidiary	Sale	(183,730)	(30)	240 days	-	240 days	108,542	51	
Mechema Chemical (Shang Yu) Co., Ltd.	Mechema Chemicals (Thailand) Co., Ltd.	Fellow subsidiary	Purchase	183,730	39	240 days	-	240 days	(108,542)	(96)	

TABLE 5

MECHEMA CHEMICALS INTERNATIONAL CORP. AND SUBSIDIARIES

RECEIVABLES FROM RELATED PARTIES AMOUNTING TO AT LEAST NT$100 MILLION OR 20% OF THE PAID-IN CAPITAL
DECEMBER 31, 2022
(In Thousands of New Taiwan Dollars)

Company Name	Related Party	Relationship	Ending Balance	Turnover Rate	Overdue		Amount Received in Subsequent Period	Allowance for Impairment Loss
					Amount	Actions Taken		
The Company	Mechema Chemicals (Thailand) Co., Ltd.	Subsidiary	$ 195,646	4.20	$ -	-	$ 94,976	$ -
	Mechema Toda Corporation	Affiliates using the equity method	258,380	8.86	-	-	258,380	-
Mechema Chemicals (Thailand) Co., Ltd.	Mechema Chemical (Shang Yu) Co., Ltd.	Fellow subsidiary	108,542	2.57	-	-	58,724	-

TABLE 6

MECHEMA CHEMICALS INTERNATIONAL CORP. AND SUBSIDIARIES

NAMES, LOCATIONS, AND RELATED INFORMATION OF INVESTEES OVER WHICH THE COMPANY EXERCISES SIGNIFICANT INFLUENCE
FOR THE YEAR ENDED DECEMBER 31, 2022
(In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

Investor Company	Investee Company	Location	Main Businesses and Products	Original Investment Amount		Balance as of December 31, 2022			Net Income (Losses) of the Investee	Equity in the Earnings (Losses)	Note
				December 31, 2022	December 31, 2021	Number of Shares (In Thousands)	Percentage of Ownership (%)	Carrying Amount			
The Company	Mechema Chemicals (Thailand) Co., Ltd.	Thailand	Manufacturing of oxidation catalysts	$ 64,675	$ 64,675	310,000	100.00	$ 117,769	$ (425)	$ (425)	
	PT Mechema Indonesia	Indonesia	Manufacturing of oxidation catalysts	121,870	121,870	4,000	100.00	130,621	5,931	5,931	
	Mechema Korea Co., Ltd.	South Korea	Manufacturing of oxidation catalysts	125,529	125,529	876,404	100.00	144,869	(9,988)	(9,988)	
	Mechema Chemical (Malaysia) Co., Ltd.	Malaysia	Manufacturing of oxidation catalysts	49,042	49,042	5,000,000	100.00	(1,295)	(923)	(666)	
	Mechema Toda Corporation	Taiwan	Manufacturing of battery cathode materials	150,100	150,100	15,010,000	50.00	112,074	(17,344)	(8,672)	
	Catalyst Development Co., Ltd.	British Virgin Islands	Investment holding	270,419	270,419	8,100,000	100.00	477,485	10,445	10,445	

Note: Refer to Table 7 for the information on investments in mainland China.

TABLE 7

MECHEMA CHEMICALS INTERNATIONAL CORP. AND SUBSIDIARIES

INFORMATION ON INVESTMENTS IN MAINLAND CHINA
FOR THE YEAR ENDED DECEMBER 31, 2022
(In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

1. Information of investee company, main business and products, paid-in capital, method of investment, remittance of funds, net income of the investee, % of ownership, carrying amount of investments and repatriation of investment income:

Investee Company	Main Businesses and Products	Total Amount of Paid-in Capital	Method of Investment	Accumulated Outflow of Investment from Taiwan as of January 1, 2022	Investment Flows		Accumulated Outflow of Investment from Taiwan as of December 31, 2022	Investee Company's Current Net Income	Percentage of Ownership (%)	Investment Income (Loss) Recognized (Note)	Carrying Amount as of December 31, 2022	Accumulated Inward Remittance of Earnings as of December 31, 2022
					Outflow	Inflow						
Mechema Chemical (Xiamen) Co., Ltd.	Real estate business	$ 113,751	Investee Companies in mainland China through a third party	US$2,100 thousand (equivalent to NT$72,847 thousand)	$ -	$ -	US$2,100 thousand (equivalent to NT$72,847 thousand)	$ 3,867	100.00	$ 3,867	$ 59,000	$ -
Mechema Chemical (Shang Yu) Co., Ltd.	Manufacturing of oxidation catalysts	197,572	Investee Companies in mainland China through a third party	US$6,000 thousand (equivalent to NT$197,572 thousand)	-	-	US$6,000 thousand (equivalent to NT$197,572 thousand)	6,549	100.00	6,549	404,721	-

Note: The amount was calculated based on the audited financial statements.

2. Upper Limit on the amount of investment in mainland China:

Accumulated Investment in Mainland China as of December 31, 2022	Investment Amounts Authorized by Investment Commission, MOEA	Upper Limit on the Amount of Investment Stipulated by Investment Commission, MOEA
US$8,100 thousand (Equivalent to NT$270,419 thousand)	US$8,100 thousand	$900,726 thousand ($1,501,210 thousand × 60%)

3. Significant transactions with investee companies in mainland China, either directly or indirectly through a third party:

Investee Companies	Relationship	Transaction Type	Amount	Transaction Details			Accounts/Notes Receivable/Payable		Unrealized Gain or Loss
				Price	Payment Terms	Compared with Terms of Third Parties	Balance	%	
Mechema Chemical (Shang Yu) Co., Ltd.	Subsidiary	Sale	$ -	Negotiable	Net of 240 days from the end of the month in which the invoice is issued	No comparable unrelated parties due to payment terms offered to related parties were similar to those offered to third parties.	$ 3,071	0.5	$ -

TABLE 8

MECHEMA CHEMICALS INTERNATIONAL CORP. AND SUBSIDIARIES

INTERCOMPANY RELATIONSHIPS AND SIGNIFICANT INTERCOMPANY TRANSACTIONS
FOR THE YEAR ENDED DECEMBER 31, 2022
(In Thousands of New Taiwan Dollars)

No. (Note 1)	Company Name	Counterparty	Nature of Relationship (Note 2)	Intercompany Transactions			
				Accounts	Amount	Transaction Details	Percentage of Consolidated Total Gross Sales or Total Assets (%) (Note 3)
0	The Company	Mechema Chemicals (Thailand) Co., Ltd.	a, b	Net revenue from sale of goods and purchases	$ 579,154	No comparable unrelated parties due to payment terms offered to related parties were similar to those offered to third parties.	11
		Mechema Chemicals (Thailand) Co., Ltd.	a, b	Receivables from and payables to related parties	195,646	Regular settlement or debit-credit offset	8
		Mechema Korea Co., Ltd.	a, b	Net revenue from sale of goods and purchases	483,803	No comparable unrelated parties due to payment terms offered to related parties were similar to those offered to third parties.	9
		Mechema Korea Co., Ltd.	a, b	Purchases and net revenue from sale of goods	201,873	No comparable unrelated parties due to payment terms offered to related parties were similar to those offered to third parties.	4
		Mechema Korea Co., Ltd.	a, b	Receivables from and payables to related parties	31,850	Regular settlement or debit-credit offset	1
1	Mechema Chemicals (Thailand) Co., Ltd.	PT Mechema Indonesia	c	Net revenue from sale of goods and purchases	212,921	No comparable unrelated parties due to payment terms offered to related parties were similar to those offered to third parties.	4
		PT Mechema Indonesia	c	Receivables from and payables to related parties	75,293	Regular settlement or debit-credit offset	3
		Mechema Chemical (Shang Yu) Co., Ltd.	c	Net revenue from sale of goods and purchases	183,730	No comparable unrelated parties due to payment terms offered to related parties were similar to those offered to third parties.	3
		Mechema Chemical (Shang Yu) Co., Ltd.	c	Receivables from and payables to related parties	108,542	Regular settlement or debit-credit offset	4

Note 1: The parent company and its subsidiaries are numbered as follows:

a. Parent company: 0.
b. Subsidiaries: 1 onward.

Note 2: Nature of relationship is indicated as follows:

a. Transactions from the parent company to a subsidiary: 1.
b. Transactions from a subsidiary to the parent company: 2.
c. Transactions between subsidiaries: 3.

Note 3: The percentage calculation is based on the consolidated total gross sales or total assets. For balance sheet items, each item is calculated as a percentage of the period-end balance of the consolidated total assets. For profit or loss items, each item is calculated as a percentage of interim cumulative amounts of the consolidated total gross sales.

TABLE 9

MECHEMA CHEMICALS INTERNATIONAL CORP. AND SUBSIDIARIES

INFORMATION OF MAJOR SHAREHOLDERS
DECEMBER 31, 2022

Name of Major Shareholder	Shares	
	Number of Shares	Percentage of Ownership (%)
Yen Lungtsai	6,086,725	8.11
JhihYuan Investment Co., Ltd.	4,508,320	6.01

Note: The information of major shareholders presented in this table is provided by the Taiwan Depository & Clearing Corporation based on the number of ordinary shares and preferred shares held by shareholders with ownership of 5% or greater, that have been issued without physical registration (including treasury shares) by the Company as of the last business day for the current quarter. The share capital in the consolidated financial statements may differ from the actual number of shares that have been issued without physical registration because of different preparation basis.