

**Gunkul Engineering Public Company Limited  
and its Subsidiaries**

Financial statements for the year ended  
31 December 2022  
and  
Independent Auditor's Report

## **Independent Auditor’s Report**

### **To the Shareholders of Gunkul Engineering Public Company Limited**

#### *Opinion*

I have audited the consolidated and separate financial statements of Gunkul Engineering Public Company Limited and its subsidiaries (the “Group”) and of Gunkul Engineering Public Company Limited (the “Company”), respectively, which comprise the consolidated and separate statements of financial position as at 31 December 2022, the consolidated and separate statements of comprehensive income, changes in equity and cash flows for the year then ended, and notes, comprising a summary of significant accounting policies and other explanatory information.

In my opinion, the accompanying consolidated and separate financial statements present fairly, in all material respects, the financial position of the Group and the Company, respectively, as at 31 December 2022 and their financial performance and cash flows for the year then ended in accordance with Thai Financial Reporting Standards (TFRSs).

#### *Basis for Opinion*

I conducted my audit in accordance with Thai Standards on Auditing (TSAs). My responsibilities under those standards are further described in the *Auditor’s Responsibilities for the Audit of the Consolidated and Separate Financial Statements* section of my report. I am independent of the Group and the Company in accordance with the *Code of Ethics for Professional Accountants including Independence Standards* issued by the Federation of Accounting Professions (Code of Ethics for Professional Accountants) that is relevant to my audit of the consolidated and separate financial statements, and I have fulfilled my other ethical responsibilities in accordance with the Code of Ethics for Professional Accountants. I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my opinion.

### *Key Audit Matters*

Key audit matters are those matters that, in my professional judgment, were of most significance in my audit of the consolidated and separate financial statements of the current period. These matters were addressed in the context of my audit of the consolidated and separate financial statements as a whole, and in forming my opinion thereon, and I do not provide a separate opinion on these matters.

<b>Impairment testing of goodwill and investment in subsidiaries, associate and joint venture</b>	
Refer to Note 3, 10, 11 and 14	
<b>The key audit matter</b>	<b>How the matter was addressed in the audit</b>
The Group consistently considered impairment testing of goodwill, and considered impairment testing of investment in subsidiaries, associate and joint venture when there is an indicator which all mainly affected by market situation. This required management's judgement. Therefore, this is an area of focus in my audit.	<p>My audit procedures in this area included, among others:</p> <ul style="list-style-type: none"><li>• Understanding the impairment testing process of the management including estimated future cash flow and key assumptions used;</li><li>• Testing key assumptions that underpin management's discounted cash flows with reference to market situations and its operating environment, my knowledge of the industry, and other obtained information;</li><li>• Evaluating of the forecasting of financial performances by comparing historical estimation to the actual operating results and;</li><li>• Evaluating the adequacy of the disclosures in accordance with the relevant Thai Financial Reporting Standards.</li></ul>

<b>Revenue and cost of construction services</b>	
Refer to Note 3 and 8	
<b>The key audit matter</b>	<b>How the matter was addressed in the audit</b>
<p>The Group accounts for revenue from construction services by referencing the stage of completion of the constructions. This is assessed by the responsible project's engineers and considered with the actual costs and the estimated costs to complete the constructions.</p> <p>The management and the project's engineers are required to exercise significant judgement to estimate the cost of construction services to complete the contracts that will affect the stage of completion. I considered the stage of completion and estimation for cost of construction services as the key audit matter.</p>	<p>My audit procedures in this areas included, among others;</p> <ul style="list-style-type: none"> <li>• Understanding the processes of the estimation and revision of the estimated costs of construction services;</li> <li>• Testing the estimated costs of construction services which were approved by the management, actual costs, revenue from construction services and unbilled revenue with related contracts and documents;</li> <li>• Comparing the stage of completion determined by engineers with the ratio of actual costs and the estimated costs including tested customers' acceptance documents;</li> <li>• Performing site visits together with the engineers to assess the appropriateness of the actual constructions progress and the stage of completion;</li> <li>• Performing analyses of the actual costs incurred and the estimated costs comparison, gross profits, progress of constructions and challenging the management for any deviations;</li> <li>• Testing the stage of completions and unbilled revenue calculations;</li> <li>• Testing the actual costs incurred after the period ended with related documents;</li> <li>• Evaluating the adequacy of the disclosures in accordance with the relevant Thai Financial Reporting Standards.</li> </ul>

### *Other Information*

Management is responsible for the other information. The other information comprises the information included in the annual report, but does not include the consolidated and separate financial statements and my auditor's report thereon. The annual report is expected to be made available to me after the date of this auditor's report.

My opinion on the consolidated and separate financial statements does not cover the other information and I will not express any form of assurance conclusion thereon.

In connection with my audit of the consolidated and separate financial statements, my responsibility is to read the other information identified above when it becomes available and, in doing so, consider whether the other information is materially inconsistent with the consolidated and separate financial statements or my knowledge obtained in the audit, or otherwise appears to be materially misstated.

When I read the annual report, if I conclude that there is a material misstatement therein, I am required to communicate the matter to those charged with governance and request that the correction be made.

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

Management is responsible for the preparation and fair presentation of the consolidated and separate financial statements in accordance with TFRSs, and for such internal control as management determines is necessary to enable the preparation of consolidated and separate financial statements that are free from material misstatement, whether due to fraud or error.

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

Those charged with governance are responsible for overseeing the Group's and the Company's financial reporting process.

### *Auditor's Responsibilities for the Audit of the Consolidated and Separate Financial Statements*

My objectives are to obtain reasonable assurance about whether the consolidated and separate financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes my opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with TSAs 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 and separate financial statements.

As part of an audit in accordance with TSAs, I exercise professional judgment and maintain professional skepticism throughout the audit. I also:

- Identify and assess the risks of material misstatement of the consolidated and separate 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 my 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.
- 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 and the Company's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- 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 and the Company's ability to continue as a going concern. If I conclude that a material uncertainty exists, I am required to draw attention in my auditor's report to the related disclosures in the consolidated and separate financial statements or, if such disclosures are inadequate, to modify my opinion. My conclusions are based on the audit evidence obtained up to the date of my auditor's report. However, future events or conditions may cause the Group and the Company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the consolidated and separate financial statements, including the disclosures, and whether the consolidated and separate financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Group to express an opinion on the consolidated financial statements. I am responsible for the direction, supervision and performance of the group audit. I remain solely responsible for my audit opinion.

I 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 I identify during my audit.

I also provide those charged with governance with a statement that I 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 my independence, and where applicable, actions taken to eliminate threats or safeguards applied.

From the matters communicated with those charged with governance, I determine those matters that were of most significance in the audit of the consolidated and separate financial statements of the current period and are therefore the key audit matters. I describe these matters in my auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, I determine that a matter should not be communicated in my report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

(Waiyawat Kosamarnchaiyakij)  
Certified Public Accountant  
Registration No. 6333

KPMG Phoomchai Audit Ltd.  
Bangkok  
27 February 2023

## Gunkul Engineering Public Company Limited and its Subsidiaries

### Statement of financial position

Assets	Note	Consolidated financial statements		Separate financial statements	
		31 December		31 December	
		2022	2021	2022	2021
		(in Baht)			
<b>Current assets</b>					
Cash and cash equivalents	5	2,199,152,032	1,728,926,133	621,854,577	360,005,802
Short-term deposits from financial institution pledged as collateral	15	1,028,052,751	2,120,006,725	-	-
Trade and other current receivables	4.3, 6	943,624,525	1,465,511,393	69,636,258	185,360,111
Current portion of finance lease receivables	7	130,041,167	93,468,047	-	-
Unbilled revenue	8	1,143,656,159	1,096,476,895	-	-
Revenue Department receivable		50,411,435	14,735,188	2,606,487	5,130,574
Short-term loans to related parties	4.3	-	-	990,197,703	725,826,044
Inventories	9	984,179,016	808,911,788	221,322,469	350,589,544
Derivative assets	25	-	1,691,907	-	621,900
Other current financial assets	25	498,688,295	19,198,138	397,462,838	-
Other current assets		242,055,063	217,889,552	27,313,238	15,619,239
<b>Total current assets</b>		<b>7,219,860,443</b>	<b>7,566,815,766</b>	<b>2,330,393,570</b>	<b>1,643,153,214</b>
<b>Non-current assets</b>					
Other non-current financial assets	4.3	122,128,683	155,509,325	110,589,556	110,584,556
Long-term deposits from financial institution pledged as collateral	15	235,256,131	272,952,877	-	-
Loan to related parties	4.3	-	-	258,525,280	296,125,280
Investments in associates	10	375,424,250	374,013,537	397,594,800	397,594,800
Investments in joint ventures	10	5,166,283,149	1,458,671,597	1,893,177,740	726,177,750
Investments in subsidiaries	11	-	-	11,872,942,710	15,567,925,805
Finance lease receivables	7	2,058,491,939	1,685,055,462	-	-
Revenue Department receivable		100,077,917	95,268,474	-	-
Advance for shares subscription	11	-	60,000,000	-	60,000,000
Investment properties	4.3	55,788,305	55,788,305	3,143,658	3,143,658
Property, plant and equipment	4.3, 12	14,731,850,030	26,535,629,122	33,591,705	36,104,708
Right-of-use assets	4.3, 13	405,026,821	543,885,223	37,603,114	47,079,918
Goodwill	14	80,925,334	163,476,324	-	-
Intangible assets	14	1,171,815,137	3,300,020,027	9,357,332	9,816,498
Deferred tax assets	22	55,203,320	53,361,647	27,402,663	27,046,695
Derivative assets	25	370,806,615	53,520,392	-	-
Other non-current assets		182,523,595	111,386,156	26,427,148	39,107,029
<b>Total non-current assets</b>		<b>25,111,601,226</b>	<b>34,918,538,468</b>	<b>14,670,355,706</b>	<b>17,320,706,697</b>
<b>Total assets</b>		<b>32,331,461,669</b>	<b>42,485,354,234</b>	<b>17,000,749,276</b>	<b>18,963,859,911</b>

The accompanying notes form an integral part of these financial statements.



## Gunkul Engineering Public Company Limited and its Subsidiaries

### Statement of financial position

Liabilities and equity	Note	Consolidated financial statements		Separate financial statements	
		31 December		31 December	
		2022	2021	2022	2021
		<i>(in Baht)</i>			
<b>Current liabilities</b>					
Short-term loans from financial institutions	15	481,652,486	1,644,687,925	-	1,219,551,025
Short-term loans from related parties	4.3	-	-	1,266,700,000	95,000,000
Trade and other current payables	4.3	1,692,724,560	1,681,236,038	174,943,143	381,430,809
Unearned revenues	4.3	354,186,838	403,626,390	6,164,209	7,094,489
Payable for purchases of assets	4.3	35,602,337	50,920,441	175,258	-
Payables for share subscription	10	80,232,500	142,023,500	-	-
Retention payables		82,441,728	343,872,627	3,325,463	2,121,778
Current portion of long-term loans	15	859,742,499	1,671,895,542	28,526,034	28,503,508
Current portion of debentures	15	906,576,620	2,797,530,605	906,576,620	2,797,530,605
Current portion of lease liabilities	4.3, 15	48,321,331	43,887,801	20,794,078	19,236,757
Derivative liabilities	25	7,606,018	6,375,293	-	6,375,293
Income tax payable		115,200,379	22,870,422	64,302,047	-
Other current liabilities		139,747,437	244,670,017	35,401,211	17,301,632
<b>Total current liabilities</b>		<b>4,804,034,733</b>	<b>9,053,596,601</b>	<b>2,506,908,063</b>	<b>4,574,145,896</b>
<b>Non-current liabilities</b>					
Long-term loans	15	10,194,011,674	15,487,804,240	1,679,478,816	308,007,919
Debentures	15	2,237,556,191	3,142,260,354	2,237,556,191	3,142,260,354
Retention payables		23,890,039	17,819,979	166,423	604,265
Lease liabilities	4.3, 15	414,215,260	522,807,375	13,480,302	25,073,134
Deferred tax liabilities	22	136,446,352	256,588,537	-	-
Provisions for employee benefit	16	121,405,115	110,151,361	64,945,887	61,055,144
Provision for decommissioning costs of buildings and power plants	17	194,273,533	342,405,666	-	-
Derivative liabilities	25	53,472,770	257,881,409	53,472,770	50,414,138
Other non-current financial liabilities		618,571	618,571	618,571	618,571
Other non-current liabilities		11,798,867	10,198,118	17,614	572,724
<b>Total non-current liabilities</b>		<b>13,387,688,372</b>	<b>20,148,535,610</b>	<b>4,049,736,574</b>	<b>3,588,606,249</b>
<b>Total liabilities</b>		<b>18,191,723,105</b>	<b>29,202,132,211</b>	<b>6,556,644,637</b>	<b>8,162,752,145</b>

The accompanying notes form an integral part of these financial statements.

# Gunkul Engineering Public Company Limited and its Subsidiaries

## Statement of financial position

Liabilities and equity	Note	Consolidated		Separate	
		financial statements		financial statements	
		31 December		31 December	
		2022	2021	2022	2021
		(in Baht)			
<b>Equity</b>					
Share capital					
Authorised share capital (8,882,530,974 ordinary shares, par value at Baht 0.25 per share)		2,220,632,743	2,220,632,743	2,220,632,743	2,220,632,743
Issued and paid-up share capital (8,882,530,974 ordinary shares, par value at Baht 0.25 per share)		2,220,632,743	2,220,632,743	2,220,632,743	2,220,632,743
Additional paid in capital:					
Premium on ordinary shares	18	5,179,473,454	5,179,473,454	5,179,473,454	5,179,473,454
Share premium on treasury shares	18	121,791,814	121,791,814	121,791,814	121,791,814
Difference arising from business combination under common control		(467,953,968)	(467,953,968)	-	-
Deficit from changes in ownership interest in subsidiary	11	(222,374,732)	(205,957,015)	-	-
Retained earnings					
Appropriated					
Legal reserve	18	222,559,000	222,559,000	222,559,000	222,559,000
Unappropriated		7,584,421,191	6,172,752,229	2,699,647,628	3,056,650,755
Other components of equity	18	(561,548,774)	(121,689,324)	-	-
<b>Equity attributable to owners of the parent</b>		<b>14,077,000,728</b>	<b>13,121,608,933</b>	<b>10,444,104,639</b>	<b>10,801,107,766</b>
Non-controlling interests	11	62,737,836	161,613,090	-	-
<b>Total equity</b>		<b>14,139,738,564</b>	<b>13,283,222,023</b>	<b>10,444,104,639</b>	<b>10,801,107,766</b>
<b>Total liabilities and equity</b>		<b>32,331,461,669</b>	<b>42,485,354,234</b>	<b>17,000,749,276</b>	<b>18,963,859,911</b>

The accompanying notes form an integral part of these financial statements.

# Gunkul Engineering Public Company Limited and its Subsidiaries

## Statement of comprehensive income

	Note	Consolidated		Separate	
		financial statements		financial statements	
		Year ended 31 December		Year ended 31 December	
		2022	2021	2022	2021
<i>(in Baht)</i>					
<b>Revenue</b>					
Revenue from sale	4.1	1,829,215,924	1,474,969,518	694,512,476	1,553,042,920
Revenue from sale of electricity		2,833,331,551	3,387,509,619	-	-
Revenue from rendering of services	4.1	297,862,553	223,635,901	21,200,949	16,229,491
Revenue from construction services		1,478,392,338	1,888,968,782	-	62,230,516
Revenue from sale of assets under finance lease	7	451,367,246	970,089,249	-	-
Revenue from adder		615,520,852	1,372,988,568	-	-
Dividend income	4.1, 10, 11	-	-	1,373,870,373	2,667,588,121
Net foreign exchange gain		-	99,712,931	7,949,476	30,028,544
Interest income	4.1	12,042,103	11,027,694	29,745,247	52,838,334
Gain on change in fair value of derivatives		618,030,401	377,396,683	2,694,761	102,702,664
Gain on sale of investment in subsidiary	11	-	-	435,420,279	-
Gain on change in ownership interest in subsidiaries to joint ventures	10, 11	1,330,723,227	-	-	-
Other income	4.1	48,617,999	61,830,864	5,286,752	15,544,266
<b>Total revenue</b>		<b>9,515,104,194</b>	<b>9,868,129,809</b>	<b>2,570,680,313</b>	<b>4,500,204,856</b>
<b>Expenses</b>					
Cost of sale	4.2, 9	1,440,362,559	1,174,979,863	626,675,265	1,361,733,961
Cost of sale of electricity	4.2	1,561,575,564	1,895,975,490	-	-
Cost of rendering of services	4.2	57,866,916	59,990,549	7,987,789	3,379,765
Cost of construction services	4.2	1,258,583,121	1,571,729,057	-	39,302,264
Cost of sale of assets under finance lease	7	408,048,456	870,825,265	-	-
Selling expenses		71,990,807	61,773,369	5,896,310	25,815,845
Administrative expenses and others	4.2	954,891,441	910,307,379	360,310,576	398,761,797
Net foreign exchange loss		92,686,767	-	-	-
Loss on capital reduction of subsidiary	11	-	130,503,892	96,692	130,503,892
<b>Total expenses</b>		<b>5,846,005,631</b>	<b>6,676,084,864</b>	<b>1,000,966,632</b>	<b>1,959,497,524</b>
Share of profit of associates and joint ventures accounted for using equity method	10	510,642,429	217,836,997	-	-
<b>Profit before finance costs and income tax expense</b>		<b>4,179,740,992</b>	<b>3,409,881,942</b>	<b>1,569,713,681</b>	<b>2,540,707,332</b>
Finance costs	4.2, 21	864,621,860	970,526,311	261,117,627	340,841,686
<b>Profit before income tax expense</b>		<b>3,315,119,132</b>	<b>2,439,355,631</b>	<b>1,308,596,054</b>	<b>2,199,865,646</b>
Tax expense	22	300,741,190	187,837,750	66,748,912	12,458,498
<b>Profit for the year</b>		<b>3,014,377,942</b>	<b>2,251,517,881</b>	<b>1,241,847,142</b>	<b>2,187,407,148</b>

The accompanying notes form an integral part of these financial statements.

# Gunkul Engineering Public Company Limited and its Subsidiaries

## Statement of comprehensive income

	Note	Consolidated		Separate	
		financial statements		financial statements	
		Year ended 31 December		Year ended 31 December	
		2022	2021	2022	2021
		(in Baht)			
<b>Other comprehensive income (expense)</b>					
<i>Items that will be reclassified</i>					
<i>subsequently to profit or loss</i>					
Exchange differences on translating foreign operations		(439,859,450)	258,656,434	-	-
<b>Total items that will be reclassified</b>					
<b>subsequently to profit or loss</b>		<b>(439,859,450)</b>	<b>258,656,434</b>	<b>-</b>	<b>-</b>
<i>Items that will not be reclassified to profit or loss</i>					
Loss on remeasurements of defined benefit plans	16	-	(13,893,041)	-	(7,997,395)
Income tax relating to items that will not be reclassified to profit or loss	22	-	2,778,608	-	1,599,479
<b>Total items that will not be reclassified to profit or loss</b>		<b>-</b>	<b>(11,114,433)</b>	<b>-</b>	<b>(6,397,916)</b>
<b>Other comprehensive income (expense) for the year, net of tax</b>		<b>(439,859,450)</b>	<b>247,542,001</b>	<b>-</b>	<b>(6,397,916)</b>
<b>Total comprehensive income (expense) for the year</b>		<b>2,574,518,492</b>	<b>2,499,059,882</b>	<b>1,241,847,142</b>	<b>2,181,009,232</b>
<b>Profit attributable to:</b>					
Owners of parent		3,010,519,230	2,229,270,274	1,241,847,142	2,187,407,148
Non-controlling interests	11	3,858,712	22,247,607	-	-
<b>Profit for the year</b>		<b>3,014,377,942</b>	<b>2,251,517,881</b>	<b>1,241,847,142</b>	<b>2,187,407,148</b>
<b>Total comprehensive income (expense) attributable to:</b>					
Owners of parent		2,570,659,780	2,476,812,275	1,241,847,142	2,181,009,232
Non-controlling interests	11	3,858,712	22,247,607	-	-
<b>Total comprehensive income (expense) for the year</b>		<b>2,574,518,492</b>	<b>2,499,059,882</b>	<b>1,241,847,142</b>	<b>2,181,009,232</b>
<b>Basic earnings per share</b>	23	<b>0.34</b>	<b>0.25</b>	<b>0.14</b>	<b>0.25</b>

The accompanying notes form an integral part of these financial statements.

**Gunkul Engineering Public Company Limited and its Subsidiaries**

**Statement of changes in equity**

Consolidated financial statements													
Note	Issued and paid-up share capital	Treasury shares	Share premium	Share on treasury share	Difference arising from business combination under common control	Deficit from changes in ownership interests in subsidiary	Retained earnings			Other components of equity	Equity attributable to owners of the parent	Non-controlling interests	Total equity
							Legal reserve	Treasury shares reserve	Unappropriated	Exchange differences on translating financial statements			
(in Baht)													
<b>Year ended 31 December 2021</b>													
<b>Balance at 1 January 2021</b>	<b>2,220,632,743</b>	<b>(304,674,256)</b>	<b>5,179,473,454</b>	<b>-</b>	<b>(467,953,968)</b>	<b>(205,957,015)</b>	<b>222,559,000</b>	<b>304,674,256</b>	<b>5,781,434,415</b>	<b>(380,345,758)</b>	<b>12,349,842,871</b>	<b>125,470,235</b>	<b>12,475,313,106</b>
<i>Transactions with owners, recorded directly in equity</i>													
<i>Contributions by and distributions to owners</i>													
Treasury shares sold	-	304,674,256	-	121,791,814	-	-	-	(304,674,256)	304,674,256	-	426,466,070	-	426,466,070
Subsidiary paid dividend	-	-	-	-	-	-	-	-	-	-	-	(4,039,852)	(4,039,852)
Issue of ordinary shares in subsidiary	-	-	-	-	-	-	-	-	-	-	-	17,935,100	17,935,100
Dividend paid to shareholders	24	-	-	-	-	-	-	-	(2,131,512,283)	-	(2,131,512,283)	-	(2,131,512,283)
<i>Total contributions by and distributions to owners</i>	<b>-</b>	<b>304,674,256</b>	<b>-</b>	<b>121,791,814</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(304,674,256)</b>	<b>(1,826,838,027)</b>	<b>-</b>	<b>(1,705,046,213)</b>	<b>13,895,248</b>	<b>(1,691,150,965)</b>
<b>Total transactions with owners, recorded directly in equity</b>	<b>-</b>	<b>304,674,256</b>	<b>-</b>	<b>121,791,814</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(304,674,256)</b>	<b>(1,826,838,027)</b>	<b>-</b>	<b>(1,705,046,213)</b>	<b>13,895,248</b>	<b>(1,691,150,965)</b>
<b>Comprehensive income (expense) for the year</b>													
Profit	-	-	-	-	-	-	-	-	2,229,270,274	-	2,229,270,274	22,247,607	2,251,517,881
Other comprehensive income (expense)	-	-	-	-	-	-	-	-	(11,114,433)	258,656,434	247,542,001	-	247,542,001
<b>Total comprehensive income (expense) for the year</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,218,155,841</b>	<b>258,656,434</b>	<b>2,476,812,275</b>	<b>22,247,607</b>	<b>2,499,059,882</b>
<b>Balance at 31 December 2021</b>	<b>2,220,632,743</b>	<b>-</b>	<b>5,179,473,454</b>	<b>121,791,814</b>	<b>(467,953,968)</b>	<b>(205,957,015)</b>	<b>222,559,000</b>	<b>-</b>	<b>6,172,752,229</b>	<b>(121,689,324)</b>	<b>13,121,608,933</b>	<b>161,613,090</b>	<b>13,283,222,023</b>

The accompanying notes form an integral part of these financial statements.

**Gunkul Engineering Public Company Limited and its Subsidiaries**

**Statement of changes in equity**

	Consolidated financial statements								Other components		Total equity	
	Note	Issued and paid-up share capital	Share premium	Share on treasury share	Difference arising from business combination under common control	Deficit from changes in ownership interests in subsidiary	Retained earnings		Exchange differences on translating financial statements	Equity attributable to owners of the parent		Non-controlling interests
							Legal reserve	Unappropriated				
						<i>(in Baht)</i>						
<b>Year ended 31 December 2022</b>												
<b>Balance at 1 January 2022</b>		<b>2,220,632,743</b>	<b>5,179,473,454</b>	<b>121,791,814</b>	<b>(467,953,968)</b>	<b>(205,957,015)</b>	<b>222,559,000</b>	<b>6,172,752,229</b>	<b>(121,689,324)</b>	<b>13,121,608,933</b>	<b>161,613,090</b>	<b>13,283,222,023</b>
<b>Transactions with owners, recorded directly in equity</b>												
<i>Contributions by and distributions to owners</i>												
Acquisition of non-controlling interests												
without a change in control	11	-	-	-	-	(16,417,717)	-	-	-	(16,417,717)	(103,582,283)	(120,000,000)
Subsidiary paid dividend		-	-	-	-	-	-	-	-	-	(5,059,201)	(5,059,201)
Issue of ordinary shares in subsidiary		-	-	-	-	-	-	-	-	-	9,999,900	9,999,900
Decrease in share capital of subsidiary		-	-	-	-	-	-	-	-	-	(4,092,382)	(4,092,382)
Dividend paid to shareholders	24	-	-	-	-	-	(1,598,850,268)	-	-	(1,598,850,268)	-	(1,598,850,268)
<b>Total contributions by and distributions to owners</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(16,417,717)</b>	<b>(1,598,850,268)</b>	<b>-</b>	<b>-</b>	<b>(1,615,267,985)</b>	<b>(102,733,966)</b>	<b>(1,718,001,951)</b>
<b>Total transactions with owners, recorded directly in equity</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(16,417,717)</b>	<b>(1,598,850,268)</b>	<b>-</b>	<b>-</b>	<b>(1,615,267,985)</b>	<b>(102,733,966)</b>	<b>(1,718,001,951)</b>
<b>Comprehensive income (expense) for the year</b>												
Profit		-	-	-	-	-	3,010,519,230	-	-	3,010,519,230	3,858,712	3,014,377,942
Other comprehensive income (expense)		-	-	-	-	-	-	(439,859,450)	(439,859,450)	(439,859,450)	-	(439,859,450)
<b>Total comprehensive income (expense) for the year</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,010,519,230</b>	<b>(439,859,450)</b>	<b>(439,859,450)</b>	<b>2,570,659,780</b>	<b>3,858,712</b>	<b>2,574,518,492</b>
<b>Balance at 31 December 2022</b>		<b>2,220,632,743</b>	<b>5,179,473,454</b>	<b>121,791,814</b>	<b>(467,953,968)</b>	<b>(222,374,732)</b>	<b>222,559,000</b>	<b>7,584,421,191</b>	<b>(561,548,774)</b>	<b>14,077,000,728</b>	<b>62,737,836</b>	<b>14,139,738,564</b>

The accompanying notes form an integral part of these financial statements.

## Gunkul Engineering Public Company Limited and its Subsidiaries

### Statement of changes in equity

	Note	Separate financial statements							Total equity
		Issued and paid-up share capital	Treasury shares	Share premium	Share premium on treasury share	Retained earnings		Unappropriated	
						Legal reserve	Treasury shares reserve		
<i>(in Baht)</i>									
<b>Year ended 31 December 2021</b>									
<b>Balance at 1 January 2021</b>		<b>2,220,632,743</b>	<b>(304,674,256)</b>	<b>5,179,473,454</b>	<b>-</b>	<b>222,559,000</b>	<b>304,674,256</b>	<b>2,702,479,550</b>	<b>10,325,144,747</b>
<b>Transactions with owners, recorded directly in equity</b>									
<i>Contributions by and distributions to owners</i>									
Treasury shares sold		-	304,674,256	-	121,791,814	-	(304,674,256)	304,674,256	426,466,070
Dividend paid to shareholders	24	-	-	-	-	-	-	(2,131,512,283)	(2,131,512,283)
<b>Total contributions by and distributions to owner</b>		<b>-</b>	<b>304,674,256</b>	<b>-</b>	<b>121,791,814</b>	<b>-</b>	<b>(304,674,256)</b>	<b>(1,826,838,027)</b>	<b>(1,705,046,213)</b>
<b>Total transactions with owners, recorded directly in equity</b>		<b>-</b>	<b>304,674,256</b>	<b>-</b>	<b>121,791,814</b>	<b>-</b>	<b>(304,674,256)</b>	<b>(1,826,838,027)</b>	<b>(1,705,046,213)</b>
<b>Comprehensive income (expense) for the year</b>									
Profit		-	-	-	-	-	-	2,187,407,148	2,187,407,148
Other comprehensive income (expense)		-	-	-	-	-	-	(6,397,916)	(6,397,916)
<b>Total comprehensive income (expense) for the year</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,181,009,232</b>	<b>2,181,009,232</b>
<b>Balance at 31 December 2021</b>		<b>2,220,632,743</b>	<b>-</b>	<b>5,179,473,454</b>	<b>121,791,814</b>	<b>222,559,000</b>	<b>-</b>	<b>3,056,650,755</b>	<b>10,801,107,766</b>

The accompanying notes form an integral part of these financial statements.

## Gunkul Engineering Public Company Limited and its Subsidiaries

### Statement of changes in equity

	Note	Separate financial statements					Total equity
		Issued and paid-up share capital	Share premium	Share premium on treasury share	Retained earnings		
					Legal reserve	Unappropriated	
(in Baht)							
<b>Year ended 31 December 2022</b>							
Balance at 1 January 2022		2,220,632,743	5,179,473,454	121,791,814	222,559,000	3,056,650,755	10,801,107,766
<b>Transactions with owners, recorded directly in equity</b>							
<i>Distributions to owners</i>							
Dividend paid to shareholders	24	-	-	-	-	(1,598,850,269)	(1,598,850,269)
<b>Total distributions to owner</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(1,598,850,269)</b>	<b>(1,598,850,269)</b>
<b>Total transactions with owners, recorded directly in equity</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(1,598,850,269)</b>	<b>(1,598,850,269)</b>
<b>Comprehensive income (expense) for the year</b>							
Profit		-	-	-	-	1,241,847,142	1,241,847,142
Other comprehensive income (expense)		-	-	-	-	-	-
<b>Total comprehensive income (expense) for the year</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,241,847,142</b>	<b>1,241,847,142</b>
<b>Balance at 31 December 2022</b>		<b>2,220,632,743</b>	<b>5,179,473,454</b>	<b>121,791,814</b>	<b>222,559,000</b>	<b>2,699,647,628</b>	<b>10,444,104,639</b>

The accompanying notes form an integral part of these financial statements.



## Gunkul Engineering Public Company Limited and its Subsidiaries

### Statement of cash flows

	<b>Consolidated</b>		<b>Separate</b>	
	<b>financial statements</b>		<b>financial statements</b>	
	Year ended 31 December		Year ended 31 December	
	2022	2021	2022	2021
	<i>(in Baht)</i>			
<b><i>Cash flows from operating activities</i></b>				
Profit for the year	3,014,377,942	2,251,517,881	1,241,847,142	2,187,407,148
<i>Adjustments to reconcile profit to cash receipts (payments)</i>				
Tax expense	300,741,190	187,837,750	66,748,912	12,458,498
Finance costs	864,621,860	970,526,311	261,117,627	340,841,686
Depreciation and amortisation	1,312,593,467	1,541,984,302	32,674,625	30,841,553
Provisions for employee benefits	13,928,691	13,260,381	6,053,663	1,910,410
Unrealised (gain) loss on foreign exchange	91,540,950	(4,891,608)	(338,389)	(10,848,979)
Gain on change in fair value of derivatives	(618,030,401)	(377,396,683)	(2,694,761)	(102,702,664)
Share of profit of associates and joint ventures				
accounted for using equity method	(510,642,429)	(217,836,997)	-	-
Dividend income	-	-	(1,373,870,373)	(2,667,588,121)
Reversal of impairment loss recognised in profit or loss	(1,878,624)	(5,597,502)	(378,224)	(5,597,502)
Impairment loss on investment in subsidiary	-	-	9,728,668	13,512,943
(Reversal of) loss on inventories devaluation	(137,198)	225,490	-	-
(Gain) loss on disposal of property, plant and equipment	45,608,411	5,872,810	(182,737)	3,085,139
Gain on disposal of other debts securities	(1,576,222)	(888,007)	(1,541,795)	(486,858)
(Gain) loss on fair value adjustment	(247,610)	144,678	(20,291)	-
Gain on sale of investment in subsidiary	-	-	(435,420,279)	-
Gain on change in ownership interest				
in subsidiaries to joint ventures	(1,330,723,227)	-	-	-
Loss on capital reduction of subsidiary	-	130,503,892	96,692	130,503,892
Interest income	(12,042,103)	(11,027,694)	(29,745,247)	(52,838,334)
	<u>3,168,134,697</u>	<u>4,484,235,004</u>	<u>(225,924,767)</u>	<u>(119,501,189)</u>
<i>Changes in operating assets and liabilities</i>				
Short-term deposits from financial institution				
pledged as collateral	(667,065,341)	(300,140,637)	-	-
Trade and other current receivables	149,414,951	1,374,641,989	121,529,965	783,426,570
Lease receivables	28,878,942	41,774,526	-	-
Unbilled revenue	(47,179,264)	128,795,905	-	-
Revenue Department receivable	(40,485,690)	275,533,808	2,524,087	(5,130,574)
Inventories	(175,130,030)	(171,729,106)	129,267,075	26,589,167
Other current assets	(51,401,237)	107,089,847	(11,682,533)	67,852,181
Other non-current financial assets	32,889,942	(22,640,452)	(5,000)	776,009
Other non-current assets	(65,300,144)	15,578,581	-	33,000,000
Trade and other current payables	49,869,154	(820,184,216)	(188,241,802)	(132,822,244)
Unearned revenues	(49,439,552)	3,953,584	(930,280)	(27,105,878)
Retention payables	3,713,353	(811,253)	765,843	(3,974,257)
Other current liabilities	(63,724,435)	74,726,739	18,099,577	(6,457,563)
Provisions for employees benefits	(2,162,920)	(3,540,798)	(2,162,920)	(3,315,920)
Other non-current liabilities	(41,331,771)	2,090,489	(555,110)	562,240
Net cash generated from (used in) operating activities	<u>2,229,680,655</u>	<u>5,189,374,010</u>	<u>(157,315,865)</u>	<u>613,898,542</u>
Taxes received (paid)	<u>(192,813,906)</u>	<u>(180,328,634)</u>	<u>9,877,049</u>	<u>5,438,821</u>
<b>Net cash from (used in) operating activities</b>	<b><u>2,036,866,749</u></b>	<b><u>5,009,045,376</u></b>	<b><u>(147,438,816)</u></b>	<b><u>619,337,363</u></b>

The accompanying notes form an integral part of these financial statements.

# Gunkul Engineering Public Company Limited and its Subsidiaries

## Statement of cash flows

	Consolidated		Separate	
	financial statements		financial statements	
	Year ended 31 December		Year ended 31 December	
	2022	2021	2022	2021
	(in Baht)			
<b>Cash flows from investing activities</b>				
Payment for incremental of capital in subsidiaries	-	-	(3,015,322,925)	(765,789,287)
Proceeds from reduction of shares in subsidiary	-	-	22,080,939	766,284,172
Proceeds from incremental of shares in non-controlling interest	9,999,900	17,935,100	-	-
Proceeds from disposal of investment in subsidiaries	-	-	6,116,820,000	-
Proceeds from change in ownership interest in subsidiaries with a change in control	5,000,000,000	-	-	-
Acquisition of joint venture	-	(107,976,499)	-	-
Payment for incremental of capital in joint ventures	(66,249,970)	(499,990)	(49,999,990)	-
Payment for payable for share subscription	(61,791,000)	(35,906,694)	-	(22,584,337)
Proceeds from sale of other debts securities	1,746,576,222	2,578,360,331	1,651,541,795	2,341,987,158
Acquisition of other debts securities	(2,224,242,547)	(2,434,500,300)	(2,047,442,547)	(2,259,500,300)
Payment for advance for shares subscription	-	(60,000,000)	-	(60,000,000)
Acquisition of investment property	-	(55,788,305)	-	-
Acquisition of property, plant and equipment	(839,530,641)	(2,952,402,101)	(8,155,701)	(3,425,779)
Acquisition of intangible assets	(17,014,884)	(8,422,244)	(2,461,062)	(6,192,600)
Proceeds from sale of property, plant and equipment	10,452,558	5,165,707	934,613	30,675
Proceeds from sale of intangible assets	347,254	-	-	-
Proceeds from loans to related parties	-	-	5,685,411,182	2,610,237,372
Payment for loans to related parties	-	-	(5,914,575,000)	(366,600,000)
Dividend received	604,141,515	216,773,649	1,373,870,373	2,667,588,121
Interest received	11,821,658	11,770,309	24,901,779	56,595,404
<b>Net cash from (used in) investing activities</b>	<b>4,174,510,065</b>	<b>(2,825,491,037)</b>	<b>3,837,603,456</b>	<b>4,958,630,599</b>
<b>Cash flows from financing activities</b>				
Payment of change in ownership interest in subsidiaries without a change in control	(60,000,000)	-	(60,000,000)	-
Payment of capital reduction in subsidiary to non-controlling interests	(4,092,382)	-	-	-
Repayment of short-term loans	(1,151,030,111)	(3,018,647,324)	(1,220,708,850)	(3,372,379,456)
Proceeds from loans from related parties	-	-	1,209,700,000	21,000,000
Repayment of loans from related parties	-	-	(38,000,000)	(108,000,000)
Proceeds from long-term loans	1,957,410,061	2,433,105,808	1,400,000,000	-
Repayment of long-term loans	(1,223,319,875)	(1,612,982,675)	(28,800,000)	(28,800,000)
Proceeds from debentures	-	1,791,900,000	-	1,791,900,000
Repayment of debentures	(2,800,000,000)	(1,819,000,000)	(2,800,000,000)	(1,819,000,000)
Payment of lease liabilities	(71,355,842)	(74,739,303)	(20,744,464)	(17,214,350)
Proceeds from sale of treasury shares	-	426,466,070	-	426,466,070
Dividend paid to shareholders	(1,598,433,931)	(2,131,106,784)	(1,598,433,931)	(2,131,106,784)
Dividend paid to non-controlling interests	(5,059,201)	(4,039,852)	-	-
Interest paid	(774,237,642)	(887,131,249)	(273,794,324)	(326,491,867)
<b>Net cash used in financing activities</b>	<b>(5,730,118,923)</b>	<b>(4,896,175,309)</b>	<b>(3,430,781,569)</b>	<b>(5,563,626,387)</b>

The accompanying notes form an integral part of these financial statements.

## Gunkul Engineering Public Company Limited and its Subsidiaries

### Statement of cash flows

	Consolidated		Separate	
	financial statements		financial statements	
	Year ended 31 December		Year ended 31 December	
	2022	2021	2022	2021
	<i>(in Baht)</i>			
<b>Net increase (decrease) in cash and cash equivalents</b>	<b>481,257,891</b>	<b>(2,712,620,970)</b>	<b>259,383,071</b>	<b>14,341,575</b>
Effect of exchange rate changes on cash and cash equivalents	(11,031,992)	49,622,520	2,465,704	5,990,477
Cash and cash equivalents as at 1 January	1,728,926,133	4,391,924,583	360,005,802	339,673,750
<b>Cash and cash equivalents at 31 December</b>	<b>2,199,152,032</b>	<b>1,728,926,133</b>	<b>621,854,577</b>	<b>360,005,802</b>
<b><i>Non-cash transactions</i></b>				
Receivable for sales of property, plant and equipment	529,324	-	511,979	-
Payables for purchases of property, plant and equipment	35,602,337	50,920,441	175,258	-
Acquisition of assets under finance lease contracts	31,555,359	20,216,823	10,708,953	8,982,491
Finance costs and front end fee capitalise as assets	5,322,602	249,338	-	-
Provisions for decommission capitalise as assets	6,297,302	-	-	-
Dividend payable	416,337	405,500	416,337	405,500
Payables for share subscription	80,232,500	142,023,500	-	-

The accompanying notes form an integral part of these financial statements.

**Gunkul Engineering Public Company Limited and its Subsidiaries**  
**Notes to the financial statements**  
**For the year ended 31 December 2022**

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# **Gunkul Engineering Public Company Limited and its Subsidiaries**

## **Notes to the financial statements**

### **For the year ended 31 December 2022**

These notes form an integral part of the financial statements.

The financial statements issued for Thai statutory and regulatory reporting purposes are prepared in the Thai language. These English language financial statements have been prepared from the Thai language statutory financial statements, and were approved and authorised for issue by the Board of Directors on 27 February 2023.

#### **1 General information**

Gunkul Engineering Public Company Limited, the “Company”, is incorporated in Thailand and was listed on the Stock Exchange of Thailand on 19 October 2010. The Company’s registered office at 1177 Pearl Bangkok Building, 8<sup>th</sup> floor, Phahonyothin Road, Phaya Thai district, Phaya Thai , Bangkok.

The Company’s major shareholder during the financial year was Gunkul Group Co., Ltd. (49.94% shareholding) which was incorporated in Thailand. The principal shareholder of the Company’s major shareholder is Dhumrongpiyawut family.

The principal activities of the Company and its subsidiaries, the “Group” are manufacturing and distribution of equipments for electrical systems, construction and investing in the generating and selling electricity business. Details of the Company’s subsidiaries as at 31 December 2022 and 2021 are given in note 11.

#### **2 Basis of preparation of the financial statements**

The financial statements are prepared in accordance with Thai Financial Reporting Standards (“TFRS”), guidelines promulgated by the Federation of Accounting Professions and applicable rules and regulations of the Thai Securities and Exchange Commission. The financial statements are presented in Thai Baht, which is the Company’s functional currency. The accounting policies, described in the note 3, have been applied consistently to all periods presented in these financial statements.

The preparation of financial statements in conformity with TFRS requires management to make judgements, estimates and assumptions that affect the application of the Group’s accounting policies. Actual results may differ from these estimates. Estimates and underlying assumptions that are described in note 3 are reviewed on an ongoing basis. Revisions to accounting estimates are recognised prospectively. Relevant information is included in the following notes:

- 3(m) and 7 Whether an arrangement contains a lease; reasonably certain to exercise extension or termination options and sub-lease;
- 3(s) and 8 Determination of stage of completion;
- 14 Key assumptions underlying recoverable amounts of the goodwill;
- 16 Key actuarial assumptions;
- 17 Recognition and measurement of provision for decommissioning costs of buildings and power plant

In addition, the Group has not early adopted a number of revised TFRS, which are not yet effective for the current period in preparing these financial statements. The Group has assessed the potential initial impact on the financial statements of these revised TFRS and expects that there will be no material impact on the financial statements in the period of initial application.

**Gunkul Engineering Public Company Limited and its Subsidiaries**  
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**3 Significant accounting policies**

**(a) Basis of consolidation**

The consolidated financial statements relate to the Company and its subsidiaries (together referred to as the “Group”) and the Group’s interests in associates and joint ventures.

Subsidiaries are entities controlled by the Group. The Group controls an entity when it is exposed to, or has rights to, variable returns from its involvement with the entity and has the ability to affect those returns through its power over the entity. The financial statements of subsidiaries are included in the consolidated financial statements from the date on which control commences until the date on which control ceases.

When there is a change in the Group’s interest in a subsidiary that do not result in a loss of control, any difference between the amount by which the non-controlling interests are adjusted and the fair value of the consideration paid or received from the acquisition or disposal of the non-controlling interests with no change in control are accounted for as other surpluses/deficits in shareholders’ equity.

When the Group loses control over a subsidiary, it derecognises the assets and liabilities, any related non-controlling interests and other components of equity of the subsidiary. Any resulting gain or loss is recognised in profit or loss. Any interest retained in the former subsidiary is measured at fair value when control is lost.

Associates are those entities in which the Group has significant influence, but not control or joint control, over the financial and operating policies. A joint venture is an arrangement in which the Group has joint control, whereby the Group has rights to the net assets of the arrangement, rather than rights to its assets and obligations for its liabilities.

The Group recognised investments in associates and joint ventures using the equity method in the consolidated financial statements. They are initially recognised at cost, which includes transaction costs. Subsequent to initial recognition, the consolidated financial statements include the Group’s dividend income and share of the profit or loss and other comprehensive income of equity-accounted investees, until the date on which significant influence or joint control ceases.

Intra-group balances and transactions, and any unrealised income or expenses arising from intra-group transactions, are eliminated on consolidation. Unrealised gains arising from transactions with associates and joint ventures are eliminated against the investment to the extent of the Group’s interest in the investee. Unrealised losses are eliminated in the same way as unrealised gains, but only to the extent that there is no evidence of impairment.

*Business combinations*

The Group applies the acquisition method when the Group assess that the acquired set of activities and assets include, at a minimum, an input and a substantive process that together significantly contribute to the ability to create output. The acquisition date is the date on which control is transferred to the Group, other than business combinations with entities under common control. Expenses in connection with a business combination are recognised as incurred.

Goodwill is measured as the fair value of the consideration transferred including the recognised amount of any non-controlling interest in the acquiree, less net fair value of the identifiable assets acquired and liabilities assumed. Any gain on bargain purchase is recognised in profit or loss immediately.

Consideration transferred includes assets transferred, liabilities incurred by the Group to the previous owners of the acquiree, any contingent consideration and equity interests issued by the Group.

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Any contingent consideration is measured at fair value at the date of acquisition, and remeasured at fair value at each reporting date. Subsequent changes in the fair value are recognised in profit or loss.

A contingent liability of the acquiree is assumed in a business combination only if such a liability represents a present obligation and arises from a past event, and its fair value can be measured reliably.

Business combination under common control are accounted for using a method similar to the pooling of interest method, by recognising assets and liabilities of the acquired businesses at their carrying amounts in the consolidated financial statements of the ultimate parent company at the transaction date. The difference between the carrying amount of the acquired net assets and the consideration transferred is recognised as surplus or deficit from business combinations under common control in shareholder's equity. The surplus or deficit will be written off upon divestment of the businesses acquired. The results from operations of the acquired businesses will be included in the consolidated financial statements of the acquirer from the beginning of the comparative period or the moment the businesses came under common control, whichever date is later, until control ceases.

**(b) *Investments in subsidiaries, associates and joint ventures***

Investments in subsidiaries, associates and joint ventures in the separate financial statements are measured at cost less allowance for impairment losses. Dividend income is recognised in profit or loss on the date on which the Group's right to receive payment is established. If the Company disposes of part of its investment, the deemed cost of the part sold is determined using the weighted average method. Gains and losses on disposal of the investments are recognised in profit or loss.

**(c) *Foreign currencies***

Transactions in foreign currencies including non-monetary assets and liabilities denominated in foreign currencies are translated to the respective functional currencies of each entity in the Group at exchange rates at the dates of the transactions. Monetary assets and liabilities denominated in foreign currencies are translated at the exchange rate at the reporting date. Non-monetary assets and liabilities measured at fair value in foreign currencies are translated at the exchange rates at the dates that fair value was determined.

Foreign currency differences are generally recognised in profit or loss.

*Foreign operations*

The assets and liabilities of foreign operations, including goodwill and fair value adjustments arising on acquisition, are translated to Thai Baht at the exchange rates at the reporting date. The revenues and expenses of foreign operations, excluding foreign operations in hyperinflationary economies, are translated to Thai Baht at rates approximating the exchange rates at the dates of the transactions.

Foreign exchange differences are recognised in other comprehensive income and accumulated in the translation reserve until disposal of the investment, except to the extent that the translation difference is allocated to non-controlling interests.

When a foreign operation is disposed of in its entirety or partially such that control, significant influence or joint control is lost, the cumulative amount in the translation reserve related to that foreign operation is reclassified to profit or loss as part of the gain or loss on disposal.

When the settlement of a monetary item receivable from or payable to a foreign operation is neither planned nor likely in the foreseeable future, exchange gains and losses arising from such a monetary item are considered to form part of a net investment in a foreign operation and are recognised in other comprehensive income, and presented in the translation reserve in equity until disposal of the investment.

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**(d) Financial instruments**

*(d.1) Classification and measurement*

Debt securities issued by the Group are initially recognised when they are originated. Other financial assets and financial liabilities (except trade accounts receivables (see note 4(f))) are initially recognised when the Group becomes a party to the contractual provisions of the instrument, and measured at fair value plus or minus, for an item not at fair value through profit or loss (FVTPL), transaction costs that are directly attributable to its acquisition or issue.

On initial recognition, a financial asset is classified as measured at: amortised cost; fair value through other comprehensive income (FVOCI); or FVTPL. Financial assets are not reclassified subsequent to their initial recognition unless the Group changes its business model for managing financial assets, in which case all affected financial assets are reclassified prospectively from the reclassification date.

On initial recognition, financial liabilities are classified as measured at amortised cost using the effective interest method or FVTPL. Interest expense, foreign exchange gains and losses and any gain or loss on derecognition are recognised in profit or loss.

Financial assets measured at amortised costs are subsequently measured at amortised cost using the effective interest method. The amortised cost is reduced by expected credit losses. Interest income, foreign exchange gains and losses, expected credit loss and any gain or loss on derecognition are recognised in profit or loss.

*(d.2) Derecognition and offset*

The Group derecognises a financial asset when the contractual rights to receive the cash flows from the financial asset expire, or it transfers the rights to receive the contractual cash flows in a transaction in which substantially all of the risks and rewards of ownership of the financial asset are transferred or in which the Group neither transfers nor retains substantially all of the risks and rewards of ownership and it does not retain control of the financial asset.

The Group derecognises a financial liability when its contractual obligations are discharged or cancelled, or expire. The Group also derecognises a financial liability when its terms are modified and the cash flows of the modified liability are substantially different, in which case a new financial liability based on the modified terms is recognised at fair value.

The difference between the carrying amount extinguished and the consideration received or paid is recognised in profit or loss.

Financial assets and financial liabilities are offset and the net amount presented in the statement of financial position when, and only when, the Group currently has a legally enforceable right to set off the amounts and the Group intends either to settle them on a net basis or to realise the asset and settle the liability simultaneously.

*(d.3) Derivatives*

Derivative are recognised at fair value and remeasured at fair value at each reporting date. The gain or loss on remeasurement to fair value is recognised immediately in profit or loss.

*(d.4) Impairment of financial assets other than trade accounts receivables*

The Group recognises ECLs equal to 12-month ECLs unless there has been a significant increase in credit risk of the financial instrument since initial recognition or credit-impaired financial assets, in which case the loss allowance is measured at an amount equal to lifetime ECLs.



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ECLs are a probability-weighted estimate of credit losses based on forward-looking and historical experience. Credit losses are measured as the present value of all cash shortfalls discounted by the effective interest rate of the financial asset.

The Group considers a financial asset to have low credit risk when its credit rating is equivalent to the globally understood definition of 'investment grade'. The Group recognises ECLs for low credit risk financial asset as 12-month ECLs.

The Group assumes that the credit risk on a financial asset has increased significantly if it is more than 30 days past due, significant deterioration in credit rating, significant deterioration in the operating results of the debtor and existing or forecast changes in the technological, market, economic or legal environment that have a significant adverse effect on the debtor's ability to meet its obligation to the Group.

The Group considers a financial asset to be in default when:

- the debtor is unlikely to pay its credit obligations to the Group in full, without recourse by the Group to actions such as realising security (if any is held); or
- the financial asset is more than 90 days past due.

*(d.5) Write offs*

The gross carrying amount of a financial asset is written off when the Group has no reasonable expectations of recovering. Subsequent recoveries of an asset that was previously written off, are recognised as a reversal of impairment in profit or loss in the period in which the recovery occurs.

*(d.6) Interest*

Interest income and expense is recognised in profit or loss using the effective interest method. In calculating interest income and expense, the effective interest rate is applied to the gross carrying amount of the asset (when the asset is not credit-impaired) or to the amortised cost of the liability.

**(e) Cash and cash equivalents**

Cash and cash equivalents comprise cash balances, call deposits and highly liquid short-term investments which has a maturity of three months or less from the date of acquisition.

**(f) Trade and other accounts receivable**

A receivable is recognised when the Group has an unconditional right to receive consideration. A receivable is measured at transaction price less allowance for expected credit loss. Bad debts are written off when incurred.

The Group estimates lifetime expected credit losses (ECLs), using a provision matrix to find ECLs rate. This method groups the debtors based on shared credit risk characteristics and past due status, taking into account historical credit loss data, adjusted for factors that are specific to the debtors and an assessment of both current economic conditions and forward-looking general economic conditions at the reporting date.

**(g) Inventories**

Inventories are measured at the lower of cost and net realisable value. Cost is calculated using the first in first out principle. Cost includes direct costs incurred in acquiring the inventories. In the case of manufactured inventories and work-in-progress, cost includes an appropriate share of production overheads based on normal operating capacity. Net realisable value is the estimated selling price in the ordinary course of business less the estimated costs to complete and to make the sale.

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**(h) Unbilled revenue**

Unbilled revenue represents the gross unbilled amount expected to be collected from customers for contract work performed to date. They are measured at costs incurred plus profits recognised to date (see note 8) less progress billings and recognised losses, presented as current asset in the statement of financial position.

**(i) Investment properties**

Investment properties are measured at cost less accumulated depreciation and impairment losses. Cost includes expenditure that is directly attributable to the acquisition of the investment property.

**(j) Property, plant and equipment**

Property, plant and equipment are measured at cost less accumulated depreciation and impairment losses.

Cost includes expenditure that is directly attributable to the acquisition of the asset. The cost of self-constructed assets includes capitalised borrowing costs, and the costs of dismantling and removing the items and restoring the site on which they are located. Purchased software that is integral to the functionality of the related equipment is capitalised as part of that equipment.

Differences between the proceeds from disposal and the carrying amount of property, plant and equipment are recognised in profit or loss.

*Subsequent costs*

The cost of replacing a part of an item of property, plant and equipment is recognised in the carrying amount of the item when the future economic benefits embodied within the part will flow to the Group, and its cost can be measured reliably. The carrying amount of the replaced part is derecognised. The costs of the day-to-day servicing of property, plant and equipment are recognised in profit or loss as incurred.

*Depreciation*

Depreciation is calculated on a straight-line basis over the estimated useful lives of each component of an asset and recognised in profit or loss. No depreciation is provided on freehold land and assets under construction.

The estimated useful lives are as follows:

Building, building improvement and utility system	25 - 30 years
Machinery and equipment	5 - 25 years
Fixtures and office equipments	3 - 5 years
Vehicles	8 - 10 years

**(k) Goodwill**

Goodwill is measured at cost less accumulated impairment losses. In respect of equity-accounted investee, the carrying amount of goodwill is included in the carrying amount of the investment.

**(l) Intangible assets**

Other intangible assets that have indefinite useful lives are measured at cost less impairment losses. Other intangible assets are measured at cost less accumulated amortisation and impairment losses. Subsequent expenditure is capitalised only when it will generate the future economic benefits. Amortisation is calculated on a straight-line basis over the estimated useful lives of intangible assets and recognised in profit or loss.

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The estimated useful lives are as follows:

Software licences	3-5	years
Right to use electrical transmission line	20 and 25	years
Right to power purchase agreement and right to operate	20 and 25	years

**(m) Leases**

At inception of a contract, the Group assesses that a contract is, or contains, a lease when it conveys the right to control the use of an identified asset for a period of time in exchange for consideration.

*As a lessee*

At commencement or on modification of a contract, the Group allocates the consideration in the contract to each lease component on the basis of its relative stand-alone prices of each component.

The Group recognises a right-of-use asset and a lease liability at the lease commencement date, except for leases of low-value assets and short-term leases which is recognised as an expense on a straight-line basis over the lease term.

Right-of-use asset is measured at cost, less any accumulated depreciation and impairment loss, and adjusted for any remeasurements of lease liability. The cost of right-of-use asset includes the initial amount of the lease liability adjusted for any prepaid lease payments, plus any initial direct costs incurred and an estimate of restoration costs, less any lease incentives received. Depreciation is charged to profit or loss on a straight-line method from the commencement date to the end of the lease term, unless the lease transfers ownership of the underlying asset to the Group by the end of the lease term or the Group will exercise a purchase option. In that case the right-of-use asset will be depreciated over the useful life of the underlying asset, which is determined on the same basis as those of property and equipment.

The lease liability is initially measured at the present value of all lease payments that shall be paid under the lease. The Group uses the Group's incremental borrowing rate to discount the lease payments to the present value. The Group determines its incremental borrowing rate by obtaining interest rates from various external financing sources and makes certain adjustments to reflect the terms of the lease and type of the asset leased.

The lease liability is measured at amortised cost using the effective interest method. It is remeasured when there is a lease modification, or a change in the assessment of options specified in the lease. When the lease liability is remeasured, a corresponding adjustment is made to the carrying amount of the right-of-use asset or is recorded in profit or loss if the carrying amount of the right-of-use asset has been reduced to zero.

*As a lessor*

At inception or on modification of a contract, the Group allocates the consideration in the contract to each component on the basis of their relative standalone selling prices.

At lease inception, the Group considers to classify a lease that transfers substantially all of the risks and rewards incidental to ownership of the underlying asset to lessees as a finance lease. A lease that does not meet this criteria is classified as an operating lease.

When the Group is an intermediate lessor, the Group classifies the sub-lease either as a finance lease or an operating lease with reference to the right-of-use asset arising from the head lease. In case of a head lease is a short-term lease, the sub-lease is classified as an operating lease. Those right-of-use assets are presented as investment properties.

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The Group recognises finance lease receivables at the net investment of the leases, which includes the present value of the lease payments, and any unguaranteed residual value, discounted using the interest rate implicit in the lease. Finance lease income reflects a constant periodic rate of return on the Group's net investment outstanding in respect of the leases.

The Group recognises lease payments received under operating leases in profit or loss on a straight-line basis over the lease term as part of other income. Initial direct costs incurred in arranging an operating lease are added to the carrying amount of the leased asset and recognised over the lease term on the same basis as rental income. Contingent rents are recognised as other income in the accounting period in which they are earned.

The Group estimates lifetime expected credit losses (ECLs), using a provision matrix to find ECLs rate. This method groups the lease receivables based on shared credit risk characteristics and past due status, taking into account historical credit loss data, adjusted for factors that are specific to the debtors and an assessment of both current economic conditions and forward-looking general economic conditions at the reporting date. The Group derecognises the lease receivables as disclosed in note 3(d).

**(n) *Impairment of non-financial assets***

The carrying amounts of the Group's assets are reviewed at each reporting date to determine whether there is any indication of impairment. If any such indication exists, the assets' recoverable amounts are estimated. For goodwill and intangible assets that have indefinite useful lives or are not yet available for use, the recoverable amount is estimated each year at the same time.

An impairment loss is recognised in profit or loss if the carrying amount of an asset or its cash-generating unit exceeds its recoverable amount.

The recoverable amount is the greater of the asset's value in use and fair value less costs to sell. In assessing value in use, the estimated future cash flows are discounted to their present value using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset. For an asset that does not generate cash inflows largely independent of those from other assets, the recoverable amount is determined for the cash-generating unit to which the asset belongs.

Impairment losses of assets recognised in prior periods is reversed if there has been a change in the estimates used to determine the recoverable amount. An impairment loss in respect of goodwill is not reversed. An impairment loss is reversed only to the extent that the asset's carrying amount does not exceed the carrying amount that would have been determined, net of depreciation or amortisation, if no impairment loss had been recognised.

**(o) *Employee benefits***

*Defined contribution plan*

Obligations for contributions to the Group's provident funds are expensed as the related service is provided.

*Defined benefit plans*

The Group's net obligation in respect of defined benefit plans is calculated by estimating the amount of future benefit that employees have earned in the current and prior periods. The defined benefit obligations is discounted to the present value, which performed by a qualified actuary using the projected unit credit method.

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Remeasurements of the net defined benefit liability, actuarial gain or loss are recognised immediately in OCI. The Group determines the interest expense on the net defined benefit liability for the period by applying the discount rate used to measure the defined benefit obligation at the beginning of the annual period, taking into account any changes in the net defined benefit liability during the period as a result of contributions and benefit payments. Net interest expense and other expenses related to defined benefit plans are recognised in profit or loss.

When the benefits of a plan are changed or when a plan is curtailed, the resulting change in benefit that relates to past service or the gain or loss on curtailment is recognised immediately in profit or loss. The Group recognises gains and losses on the settlement of a defined benefit plan when the settlement occurs.

The Group's net obligation in respect of long-term employee benefits is the amount of future benefit that employees have earned in return for their service in the current and prior periods. That benefit is discounted to determine its present value. Remeasurements are recognised in profit or loss in the period in which they arise.

Termination benefits are expensed at the earlier of when the Group can no longer withdraw the offer of those benefits and when the Group recognizes costs for a restructuring. If benefits are not expected to be settled wholly within 12 months of the end of the reporting period, then they are discounted.

Short-term employee benefits are expensed as the related service is provided. A liability is recognised for the amount expected to be paid if the Group has a present legal or constructive obligation to pay this amount as a result of past service provided by the employee and the obligation can be estimated reliably.

**(p) Provisions**

A provision is recognised if, as a result of a past event, the Group has a present legal or constructive obligation that can be estimated reliably, and it is probable that an outflow of economic benefits will be required to settle the obligation. Provisions are determined by discounting the expected future cash flows at a pre-tax rate that reflects current market assessments of the time value of money and the risks specific to the liability. The unwinding of the discount is recognised as a finance cost.

*Provision for decommissioning costs of buildings and power plants*

The Group recognises provision for decommissioning costs of the buildings or structures with the present value of the estimate of the eventual costs at the lease end date. The recognised provision for decommissioning costs are based on removal cost estimates, removal period, discount rate and future inflation rate. Provision for decommissioning and restoration are discounted to be present value, and are included as part of the assets.

**(q) Fair value measurement**

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date in the principal or, in its absence, the most advantageous market to which the Group has access at that date. The fair value of a liability reflects its non-performance risk.

When measuring the fair value of an asset or a liability, the Group uses observable market data as far as possible. Fair values are categorised into different levels in a fair value hierarchy based on the inputs used in the valuation techniques as follows:

- Level 1: quoted prices in active markets for identical assets or liabilities.
- Level 2: inputs other than quoted prices included in Level 1 that are observable for the asset or liability, either directly or indirectly.
- Level 3: inputs for the asset or liability that are based on unobservable input.

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The Group recognises transfers between levels of the fair value hierarchy at the end of the reporting period during which the change has occurred.

If an asset or a liability measured at fair value has a bid price and an ask price, then the Group measures assets and asset positions at a bid price and liabilities and liability positions at an ask price.

The best evidence of the fair value of a financial instrument on initial recognition is normally the transaction price – i.e. the fair value of the consideration given or received. If the Group determines that the fair value on initial recognition differs from the transaction price, the financial instrument is initially measured at fair value adjusted for the difference between the fair value on initial recognition and the transaction price and the difference is recognised in profit or loss immediately. However, for the fair value categorised as level 3, such difference is deferred and will be recognised in profit or loss on an appropriate basis over the life of the instrument or until the fair value level is transferred or the transaction is closed out.

**(r) Treasury Shares**

When share capital recognised as equity is repurchased, the amount of consideration paid, including directly attributable costs, is classified as treasury shares and recognised as a deduction from equity. An equal amount is appropriated from retained earnings and taken to a reserve for treasury shares within equity. When treasury shares are sold, the amount received is recognised as an increase in equity by crediting the cost of the treasury shares sold, calculated using the weighted average method, to the treasury shares account and transferring the equivalent amount back from reserve for treasury shares to retained earnings. Surpluses on the sale of treasury shares are taken directly to a separate category within equity, 'Share premium on treasury shares'. Net deficits on sale or cancellation of treasury shares are debited to retained earnings after setting off against any remaining balance of surplus on treasury shares.

**(s) Revenue from contracts with customers**

*(1) Revenue recognition*

Revenue is recognised when a customer obtains control of the goods or services in an amount that reflects the consideration to which the Group expects to be entitled, excluding those amounts collected on behalf of third parties, value added tax or other sales taxes and is after deduction of any trade discounts and volume rebates.

*Sale of goods and services*

Revenue from sales of goods is recognised on the date on which the goods are delivered to the customers. For the sales that permit the customers to return the goods, the Group estimates the returns based on the historical return data, does not recognise revenue and cost of sale for the estimated products to be returned. Revenue for rendering of services is recognised over time as the services are provided.

For bundled packages, the Group recognises revenue from sales of products and rendering of services separately if a product or service is separately identifiable from other items and a customer can benefit from it or the multiple services are rendered in different reporting periods. The consideration received is allocated based on their relative stand-alone selling prices.

*Revenue from sale of electricity*

Revenue from sale of electricity is recognised in profit or loss based on the units of sales delivered at the applicable tariff rates.

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*Revenue from construction contracts*

Contract revenue includes the initial amount agreed in the contract plus any variations in contract work, claims and incentive payments to the extent that it is probable that they will result in revenue and can be measured reliably. As soon as the outcome of a construction contract can be estimated reliably, contract revenue and expenses are recognised in profit or loss in proportion to the stage of completion of the contract.

The stage of completion is assessed by reference to surveys of work performed. When the outcome of a construction contract cannot be estimated reliably, contract revenue is recognised only to the extent of contract costs incurred that are likely to be recoverable. An expected loss on a contract is recognised immediately in profit or loss.

(2) *Contract balances*

Contract assets are recognised when the Group has recognised revenue before it has an unconditional right to receive consideration. The contract assets are measured at the amount of consideration that the Group is entitled to, less allowance for expected credit loss. The contract assets are classified as trade receivables when the Group has an unconditional right to receive consideration.

Contract liabilities are the obligation to transfer goods or services to the customer. The contract liabilities are recognised when the Group receives or has an unconditional right to receive non-refundable consideration from the customer before the Group recognises the related revenue.

A refund liability is the obligation to refund some or all of the consideration received from the customer and is measured at the amount the Group ultimately expects it will have to return to the customer. The refund liability is reassessed at each reporting date and make a corresponding change to the amount of revenue recognised.

(t) ***Income tax***

Income tax expense for the year comprises current and deferred tax, which is recognised in profit or loss except to the extent that they relate to a business combination, or items recognised directly in equity or in other comprehensive income.

Current tax is recognised in respect of the taxable income or loss for the year, using tax rates enacted or substantively enacted at the reporting date, and any adjustment to tax payable in respect of previous years.

Deferred tax is recognised in respect of temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for taxation purposes. Deferred tax is not recognised for the temporary differences: the initial recognition of goodwill; the initial recognition of assets or liabilities in a transaction that is not a business combination and that affects neither accounting nor taxable profit or loss; and differences relating to investments in subsidiaries and joint ventures to the extent that it is probable that they will not reverse in the foreseeable future.

The measurement of deferred tax reflects the tax consequences that would follow 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, using tax rates enacted or substantively enacted at the reporting date. Current deferred tax assets and liabilities are offset in the separate financial statements.

A deferred tax asset is recognised to the extent that it is probable that future taxable profits will be available against which the temporary differences can be utilised. Deferred tax assets are reviewed at each reporting date and reduced to the extent that it is no longer probable that the related tax benefit will be realised.

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**(u) Earnings per share**

EPS is calculated by dividing the profit or loss attributable to ordinary shareholders of the Company by the weighted average number of ordinary shares outstanding during the period, adjusted for own shares held.

**4 Related parties**

A related party is a person or entity that has direct or indirect control or joint control, or has significant influence over the financial and managerial decision-making of the Group; a person or entity that are under common control or under the same significant influence as the Group; or the Group has direct or indirect control or joint control or has significant influence over the financial and managerial decision-making of a person or entity.

Relationships with subsidiaries, associates and joint ventures are described in notes 10 and 11. Other related parties that the Group had significant transactions with during the year were as follows:

<b>Name of entities</b>	<b>Country of Incorporation</b>	<b>Nature of relationships</b>
Gunkul Group Co., Ltd.	Thailand	Major shareholder
Rang-Ngern Solution Co., Ltd.	Thailand	Indirect subsidiary and/or common directors
Outgrow D Co.,Ltd. <sup>(3)</sup>	Thailand	Indirect subsidiary and/or common directors
Gunkul Solar Power 1 Co., Ltd.	Thailand	Indirect subsidiary and/or common directors
Gunkul Solar Power 2 Co., Ltd.	Thailand	Indirect subsidiary and/or common directors
Future Electrical Control Co., Ltd.	Thailand	Indirect subsidiary and/or common directors
Joint Venture GPD & TEECL Co.,Ltd.	Thailand	Indirect subsidiary and/or common directors
Joint Venture FEC & PPB Co.,Ltd. <sup>(2)</sup>	Thailand	Indirect subsidiary and/or common directors
Future Energy Corporation Co., Ltd.	Thailand	Indirect subsidiary and/or common directors
Gunkul Godungfaifaa Platform Co., Ltd. (Formerly Gunkul B2B Co., Ltd.)	Thailand	Indirect subsidiary and/or common directors
Gunkul International Investment (Singapore) Pte. Ltd.	Singapore	Indirect subsidiary and/or common directors
Gunkul Myanmar Central Power 1 Company Limited	Myanmar	Indirect subsidiary and/or common directors
Singapore An Yang Pte. Ltd.	Singapore	Indirect subsidiary and/or common directors
Singapore Yun Yang Pte. Ltd.	Singapore	Indirect subsidiary and/or common directors
G.K. Smart Farming Co., Ltd.	Thailand	Indirect subsidiary and/or common directors
G.K. Bio Extraction Co., Ltd.	Thailand	Indirect subsidiary and/or common directors
Future Power Construction Co., Ltd.	Thailand	Indirect subsidiary and/or common directors
Sendai Okura GD Daiichi Godo Kaisha	Japan	Indirect subsidiary
Kimitsu Mega Solar Godo Kaisha	Japan	Indirect subsidiary
Future Asset Management Kabushiki Kaisha	Japan	Indirect subsidiary
GD Solar Utsunomiya Godo Kaisha <sup>(1)</sup>	Japan	Indirect subsidiary
East Japan Solar 13 Godo Kaisha <sup>(1)</sup>	Japan	Indirect subsidiary
Tri Viet Hoa Binh Joint Stock Company	Vietnam	Indirect subsidiary
Bach Khoa A Chau Hoa Binh Joint Stock Company	Vietnam	Indirect subsidiary
Tri Viet Tay Ninh Joint Stock Company	Vietnam	Indirect subsidiary
Bach Khoa A Chau Tay Ninh Joint Stock Company	Vietnam	Indirect subsidiary



**Gunkul Engineering Public Company Limited and its Subsidiaries**  
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Name of entities	Country of Incorporation	Nature of relationships
Tan Chau Energy Joint Stock Company	Vietnam	Indirect subsidiary
INT Energy Pte. Ltd.	Singapore	Indirect subsidiary
Gunkul Trading and Agency Co., Ltd.	Thailand	Common directors
G.M.Supply and Construction Co., Ltd.	Thailand	Common directors
Gunkul Engineering (2000) Co., Ltd.	Thailand	Common directors
Great Miracle Asset Co., Ltd.	Thailand	Common directors
Great Miracle Asset 2 Co., Ltd.	Thailand	Common directors
Great Miracle Asset 3 Co., Ltd.	Thailand	Common directors
Great Miracle Asset 4 Co., Ltd.	Thailand	Common directors
Great Miracle Asset 5 Co., Ltd.	Thailand	Common directors
Great Miracle Asset 7 Co., Ltd.	Thailand	Common directors
Great Miracle Asset 8 Co., Ltd.	Thailand	Common directors
Great Miracle Asset 9 Co., Ltd.	Thailand	Common directors
Great Miracle Asset 10 Co., Ltd.	Thailand	Common directors
Great Miracle Asset 11 Co., Ltd.	Thailand	Common directors
Great Miracle Asset 13 Co., Ltd.	Thailand	Common directors
Great Miracle Asset 14 Co., Ltd.	Thailand	Common directors
Pranburi Boulevard Co., Ltd.	Thailand	Common directors
Noprakul Co., Ltd.	Thailand	Holding by the director
Gunkul Marine Line Co., Ltd.	Thailand	Holding by the director
Green Filed Energy Co., Ltd.	Thailand	Holding by the director
Kulnatee Co., Ltd.	Thailand	Holding by close relative of a director
P.M. Building Group Co., Ltd.	Thailand	Holding by close relative of a director
Thonglor 9 Co., Ltd. <sup>(1)</sup>	Thailand	Holding by major shareholder
Tech-Green Co., Ltd. <sup>(2)</sup>	Thailand	Holding by major shareholder
Siam Future Co., Ltd	Thailand	Holding by major shareholder
Entirety Sap Co., Ltd. <sup>(2)</sup>	Thailand	Holding by major shareholder
Happy Green 2558 Co., Ltd.	Thailand	Holding by major shareholder

<sup>(1)</sup> Sale of investment during the year 2021.

<sup>(2)</sup> The liquidation was completed during the year 2021.

<sup>(3)</sup> The liquidation was completed during the year 2022.

4.1 Significant revenue transactions for the years ended 31 December with related parties were as follows:

	<b>Consolidated</b>		<b>Separate</b>	
	<b>financial statements</b>		<b>financial statements</b>	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
<b>Revenue from sale</b>				
Subsidiaries	-	-	228,595	489,202
Joint ventures	1,119	811	-	-
Other related parties	12	216	-	-
<b>Total revenue from sale</b>	<b>1,131</b>	<b>1,027</b>	<b>228,595</b>	<b>489,202</b>

**Gunkul Engineering Public Company Limited and its Subsidiaries**  
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	<b>Consolidated financial statements</b>		<b>Separate financial statements</b>	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
<b>Revenue from rendering of services</b>				
<b>Revenue from operation and maintenance services</b>				
Subsidiaries	-	-	1,706	3,759
Associate	11,917	28,945	-	-
Joint ventures	20,858	23,028	-	-
<b>Management service income</b>				
Subsidiaries	-	-	2,587	1,949
Joint ventures	8,178	5,748	8,178	5,748
<b>Other services income</b>				
Joint ventures	176	6	-	-
Other related parties	-	12	-	-
<b>Total revenue from rendering of services</b>	<b>41,129</b>	<b>57,739</b>	<b>12,471</b>	<b>11,456</b>
<b>Dividend income</b>				
Subsidiaries	-	-	769,729	2,450,814
Associate	-	-	53,568	71,350
Joint ventures	-	-	550,573	145,424
<b>Total dividend income</b>	<b>-</b>	<b>-</b>	<b>1,373,870</b>	<b>2,667,588</b>
<b>Interest income</b>				
Subsidiaries	-	-	27,820	52,250
<b>Total interest income</b>	<b>-</b>	<b>-</b>	<b>27,820</b>	<b>52,250</b>
<b>Other income – rental income</b>				
Subsidiaries	-	-	760	541
<b>Total other income</b>	<b>-</b>	<b>-</b>	<b>760</b>	<b>541</b>

4.2 Significant expenses transactions for the years ended 31 December with related parties were as follows:

	<b>Consolidated financial statements</b>		<b>Separate financial statements</b>	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
<b>Cost of goods sold - purchase of goods and services</b>				
Subsidiaries	-	-	110,680	353,490
<b>Total cost of goods sold</b>	<b>-</b>	<b>-</b>	<b>110,680</b>	<b>353,490</b>
<b>Cost of services</b>				
Subsidiaries	-	-	4,088	-
<b>Total cost of services</b>	<b>-</b>	<b>-</b>	<b>4,088</b>	<b>-</b>

**Gunkul Engineering Public Company Limited and its Subsidiaries**  
**Notes to the financial statements**  
**For the year ended 31 December 2022**

	<b>Consolidated financial statements</b>		<b>Separate financial statements</b>	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
<b>Cost of construction services</b>				
Subsidiaries	-	-	-	3,880
<b>Total cost of construction services</b>	<u>-</u>	<u>-</u>	<u>-</u>	<u>3,880</u>
<b>Administrative expenses and others</b>				
<b>Training expense</b>				
Subsidiaries	-	-	234	327
<b>Other administrative expenses</b>				
Subsidiaries	-	-	356	1
Joint ventures	190	-	190	-
<b>Total administrative expenses and others</b>	<u>190</u>	<u>-</u>	<u>780</u>	<u>328</u>
<b>Finance costs</b>				
<b>Interest expense on loan</b>				
Subsidiaries	-	-	5,526	2,588
<b>Interest expense – lease liabilities</b>				
Other related parties	536	915	417	722
<b>Total finance costs</b>	<u>536</u>	<u>915</u>	<u>5,943</u>	<u>3,310</u>
<b><i>Purchase of investment property</i></b>				
Associate	-	55,788	-	-
<b><i>Purchase of assets</i></b>				
Subsidiaries	-	-	50	-
Other related parties	4	21	-	21
<b><i>Sale of assets</i></b>				
Subsidiaries	-	-	1,450	37
Joint ventures	537	-	-	-
<b><i>Purchase of right-of-use assets</i></b>				
Other related parties	-	10,058	-	5,612
<b>Key management personnel</b>				
Key management personnel compensation				
Short-term employee benefit	221,769	189,740	144,844	142,744
Post-employment benefits	5,398	3,234	3,783	2,891
<b>Total</b>	<u>227,167</u>	<u>192,974</u>	<u>148,627</u>	<u>145,635</u>

**Gunkul Engineering Public Company Limited and its Subsidiaries**  
**Notes to the financial statements**  
**For the year ended 31 December 2022**

4.3 Balances as at 31 December with related parties were as follows:

	<b>Consolidated financial statements</b>		<b>Separate financial statements</b>	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
<b><i>Trade accounts receivable</i></b>				
Subsidiaries	-	-	14,617	94,394
Associate	1,083	1,586	-	-
Joint ventures	16,824	197	-	-
Other related parties	-	6	-	-
	<u>17,907</u>	<u>1,789</u>	<u>14,617</u>	<u>94,394</u>
<i>Less allowance for expected credit loss</i>	-	-	-	-
<b>Total</b>	<b><u>17,907</u></b>	<b><u>1,789</u></b>	<b><u>14,617</u></b>	<b><u>94,394</u></b>
<b><i>Other receivables</i></b>				
Subsidiaries	-	-	11,789	7,297
Joint venture	1,484	513	1,014	513
<b>Total</b>	<b><u>1,484</u></b>	<b><u>513</u></b>	<b><u>12,803</u></b>	<b><u>7,810</u></b>
<b><i>Loans to</i></b>				
Subsidiaries				
- Current portion of loans to	-	-	<u>990,198</u>	<u>725,826</u>
- Non - current portion of loans to	-	-	<u>258,525</u>	<u>296,125</u>
<b><i>Other non-current financial assets</i></b>				
Associate	<u>106,764</u>	<u>106,764</u>	<u>106,764</u>	<u>106,764</u>
<b><i>Trade accounts payable</i></b>				
Subsidiaries	-	-	<u>7,891</u>	<u>64,043</u>
<b><i>Advance received</i></b>				
Joint venture	<u>5,850</u>	-	-	-
<b><i>Other current payables</i></b>				
Subsidiaries	-	-	11,509	4,027
Joint venture	-	3,126	18	-
<b>Total</b>	<b><u>-</u></b>	<b><u>3,126</u></b>	<b><u>11,527</u></b>	<b><u>4,027</u></b>
<b><i>Payable for purchases of assets</i></b>				
Subsidiaries	-	-	<u>54</u>	-
<b><i>Lease liabilities</i></b>				
Other related parties	<u>11,291</u>	<u>22,618</u>	<u>8,254</u>	<u>16,221</u>
<b><i>Loans from</i></b>				
Subsidiaries	-	-	<u>1,266,700</u>	<u>95,000</u>

**Gunkul Engineering Public Company Limited and its Subsidiaries**  
**Notes to the financial statements**  
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*Significant agreements with related parties*

As at 31 December 2022, the Group had agreements with related parties as follows:

*Land building and properties lease/sublease agreements*

The Company has land lease agreement for power plants construction with a subsidiary for the period of 26 years expiring in September 2039. The subsidiary has committed to pay rental fee as stipulated in the agreement.

The Company and certain subsidiaries have land lease, sublease of land, building and properties with certain related parties. The agreements are for period of 2-3 years and shall be renewable. The Company and subsidiaries have committed to pay rental fee as stipulated in the agreements.

The Company and certain subsidiaries have lease/sublease of land, building, property and rooftop space with its subsidiaries in the Group. The agreements are for period of 2 to 26 years and shall be renewable. The Company and subsidiaries have committed to pay rental fee as stipulated in the agreements.

*Operation and maintenance agreements*

The Company and a subsidiary had several operation and maintenance agreements with subsidiaries, associate and joint ventures whereby the service fees are stipulated in the agreements. These agreements expire in December 2023 to October 2043.

*Service agreements*

Joint ventures and subsidiaries had several service agreements with the company whereby the agreements is for a period of 5 years and shall be renewable. The service fees are stipulated in the agreements.

*Construction service agreements*

The certain subsidiaries had several construction service agreements with its subsidiaries in the Group. The subsidiaries have committed to pay services fee as stipulated in the agreements.

*Asset management service agreements*

Two subsidiaries in Japan have asset management service agreements with a subsidiary in Japan. These agreements have a period of 20 years commencing from commercial operation date. The agreements expire during April 2038 to December 2041. The services fees are stipulated in the agreements.

*Security*

At 31 December 2022, the Company has pledged promissory notes of loan to related party with a book value of Baht 287.33 million as collateral to secure long-term loan received from a commercial bank.

*Land purchase agreement*

A subsidiary of the Group has acquired land from an associate in the amount of Baht 55.79 million according to land purchase agreement. At the present, the said subsidiary has no aim to use such land in the future. Therefore, they classified this land to investment property. As at 31 December 2022, the fair value of this land is Baht 78.79 million which was determined by an independent professional valuers based on the open market values for an existing use basis. The fair value of investment property has been categorised as a Level 3.

**Gunkul Engineering Public Company Limited and its Subsidiaries**  
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<b>Valuation technique</b>	<b>Significant Unobservable inputs</b>	<b>Inter-relationship between key unobservable inputs and fair value measurement</b>
<i>Market approach</i>	The adjusted quoted price and the actual selling price of comparable investment properties	The estimated fair value increase (decrease) if land price were higher (lower).

**5 Cash and cash equivalents**

	<b>Consolidated financial statements</b>		<b>Separate financial statements</b>	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
Cash on hand	1,005	935	150	200
Cash at banks-current accounts	529,345	538,990	8,239	12,319
Cash at banks-savings accounts	1,088,141	1,070,294	163,097	333,952
Highly liquid short-term investments	450,000	-	450,000	-
Cheques on hand	130,661	118,707	369	13,535
<b>Total</b>	<b><u>2,199,152</u></b>	<b><u>1,728,926</u></b>	<b><u>621,855</u></b>	<b><u>360,006</u></b>

**6 Trade and other current receivables**

	<i>Note</i>	<b>Consolidated financial statements</b>		<b>Separate financial statements</b>	
		2022	2021	2022	2021
		<i>(in thousand Baht)</i>			
<b>Trade accounts receivable</b>					
Related parties	4	17,907	1,789	14,617	94,394
Other parties		753,966	1,237,790	42,794	72,215
Less allowance for expected credit loss		(678)	(2,556)	(678)	(1,056)
<b>Net</b>		<b><u>771,195</u></b>	<b><u>1,237,023</u></b>	<b><u>56,733</u></b>	<b><u>165,553</u></b>
<b>Other current receivables</b>					
Related parties	4	1,484	513	12,803	7,810
Other parties		53,608	72,270	100	5,338
Retention receivables		117,338	155,705	-	6,659
		<b><u>172,430</u></b>	<b><u>228,488</u></b>	<b><u>12,903</u></b>	<b><u>19,807</u></b>
<b>Total</b>		<b><u>943,625</u></b>	<b><u>1,465,511</u></b>	<b><u>69,636</u></b>	<b><u>185,360</u></b>

	<b>Consolidated financial statements</b>		<b>Separate financial statements</b>	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
<b>Allowance for expected credit loss</b>				
At 1 January	2,556	8,154	1,056	6,654
Addition	-	129	-	129
Reversal	(378)	(5,193)	(378)	(5,193)
Write-off	(1,500)	(534)	-	(534)
<b>At 31 December</b>	<b><u>678</u></b>	<b><u>2,556</u></b>	<b><u>678</u></b>	<b><u>1,056</u></b>

**Gunkul Engineering Public Company Limited and its Subsidiaries**  
**Notes to the financial statements**  
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	<b>Consolidated financial statements</b>		<b>Separate financial statements</b>	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
Within credit terms	709,555	1,182,993	26,383	98,824
Overdue:				
Less than 3 months	29,940	31,745	2,777	44,426
3 - 6 months	26,845	20,431	25,767	20,227
6 - 12 months	3,380	666	-	580
Over 12 months	2,153	3,744	2,484	2,552
	<b>771,873</b>	<b>1,239,579</b>	<b>57,411</b>	<b>166,609</b>
Less allowance for expected credit loss	(678)	(2,556)	(678)	(1,056)
<b>Net</b>	<b>771,195</b>	<b>1,237,023</b>	<b>56,733</b>	<b>165,553</b>

The normal credit term granted by the Group ranges from 30 days to 120 days.

**7 Lease receivables**

	<b>Consolidated financial statements</b>			
	Within 1 year	After 1 year but within 5 years	After 5 years	Total
	<i>(in thousand Baht)</i>			
<b>31 December 2022</b>				
Lease receivables	343,393	1,157,499	2,535,569	4,036,461
Less unearned interest income	(213,352)	(782,163)	(852,413)	(1,847,928)
<b>Total</b>	<b>130,041</b>	<b>375,336</b>	<b>1,683,156</b>	<b>2,188,533</b>
Less allowance for expected credit loss	-	-	-	-
<b>Net</b>	<b>130,041</b>	<b>375,336</b>	<b>1,683,156</b>	<b>2,188,533</b>
<b>31 December 2021</b>				
Lease receivables	239,127	976,419	2,299,816	3,515,362
Less unearned interest income	(145,659)	(731,443)	(859,736)	(1,736,838)
<b>Total</b>	<b>93,468</b>	<b>244,976</b>	<b>1,440,080</b>	<b>1,778,524</b>
Less allowance for expected credit loss	-	-	-	-
<b>Net</b>	<b>93,468</b>	<b>244,976</b>	<b>1,440,080</b>	<b>1,778,524</b>

**8 Unbilled revenue**

	<b>Consolidated financial statements</b>		<b>Separate financial statements</b>	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
Cost and attributable profit	3,713,737	4,165,069	-	62,231
Progress billings and others	(2,570,081)	(3,068,592)	-	(62,231)
<b>Net</b>	<b>1,143,656</b>	<b>1,096,477</b>	<b>-</b>	<b>-</b>

**Gunkul Engineering Public Company Limited and its Subsidiaries**  
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**9 Inventories**

	<b>Consolidated</b>		<b>Separate</b>	
	<b>financial statements</b>		<b>financial statements</b>	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
Finished goods	630,335	555,492	241,055	367,906
Work in progress	25,184	903	-	-
Raw materials	203,474	188,569	-	-
Factory supplies	7,672	1,749	-	-
Construction in progress	100,523	103,541	-	-
Goods in transit	63,970	5,774	1,516	3,933
<b>Total</b>	<b>1,031,158</b>	<b>856,028</b>	<b>242,571</b>	<b>371,839</b>
<i>Less</i> allowance for declining in value of inventories	(46,979)	(47,116)	(21,249)	(21,249)
<b>Net</b>	<b>984,179</b>	<b>808,912</b>	<b>221,322</b>	<b>350,590</b>
Inventories recognised in 'cost of sales of goods':				
- Cost	1,440,499	1,174,854	626,675	1,361,734
- Write-down to net realisable value	190	516	-	-
- Reversal of write-down	(327)	(390)	-	-
<b>Net</b>	<b>1,440,362</b>	<b>1,174,980</b>	<b>626,675</b>	<b>1,361,734</b>

**10 Investments in associates and joint ventures**

	<i>Note</i>	<b>Consolidated</b>		<b>Separate</b>	
		<b>financial statements</b>		<b>financial statements</b>	
		2022	2021	2022	2021
		<i>(in thousand Baht)</i>			
At 1 January		1,832,685	1,565,745	1,123,773	1,123,773
Share of net profit of associates and joint ventures		510,643	217,837	-	-
Acquisition of joint venture		-	250,000	-	-
Increase in share capital	<i>a</i>	66,250	500	50,000	-
Classified from investment in subsidiaries	<i>b</i>	3,741,254	-	1,117,000	-
Dividend income		(604,142)	(216,774)	-	-
Exchange differences on translating financial statements		(4,983)	15,377	-	-
<b>At 31 December</b>		<b>5,541,707</b>	<b>1,832,685</b>	<b>2,290,773</b>	<b>1,123,773</b>

*a. Establishment of joint ventures*

***JGS Synergy Power Company Limited***

During the year ended 31 December 2022, the Company established JGS Synergy Power Company Limited to invest in selling of electrical equipment, solar rooftop and to develop distribution channel for hemp products. The Company has 50% interest in such company which is a joint venture. The Company paid for shares subscription totalling of Baht 50 million.



**Gunkul Engineering Public Company Limited and its Subsidiaries**  
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*Pun New Energy Co., Ltd.*

During the year ended 31 December 2022, Future Energy Corporation Co., Ltd., the Company's subsidiary, established Pun New Energy Co., Ltd. in order to invest in solar rooftop power plant. The subsidiary has 50% interest in such company which is an indirect joint venture of the Group. The Company paid for shares subscription totalling of Baht 15 million.

*Increase in share capital of joint venture*

*Origin Gunkul Energy Co., Ltd.*

During the year ended 31 December 2022, Future Energy Corporation Co., Ltd., the Company's indirect subsidiary, was paid for additional share capital in joint ventures amounting to Baht 1.25 million.

**b. *Change in ownership interest in subsidiaries to joint ventures***

On 11 July 2022, the Board of Directors has passed a resolution to approve Gulf Gunkul Corporation Company Limited (formerly known as Gunkul Grand Asset Co., Ltd.) which is the Group's subsidiary and held 100% shareholdings in Wind Energy Development Company Limited, Greenovation Power Company Limited and Korat Wind Energy Company Limited (called as "Wind Energy Group"), to offer and issue ordinary shares of 11.17 million shares at par value of Baht 100 per share which is the portion of 50% of total registered capital of the said subsidiary to Gulf Renewable Energy Company Limited, which is a subsidiary of Gulf Energy Development Public Company Limited to increase the Group's liquidity and to expand investments in renewable energy business in the future.

As at 27 July 2022, Gulf Renewable Energy Company Limited has fully paid for share subscription amounting to Baht 5,000 million. After share increase completed, the Group's interest in Gulf Gunkul Corporation Company Limited has decreased from 100% to 50%. Therefore, Gulf Gunkul Corporation Company Limited has become joint venture of the Group since the date of share increase completed. The Company classified investment in Gulf Gunkul Corporation Company Limited at cost method in the amount of Baht 1,117 million to joint venture of the Company.

Moreover, the Group derecognised assets, liabilities and goodwill of such subsidiaries from the consolidated statements in full and measured initial investment in joint venture at fair value of 50% interest in Gulf Gunkul Corporation Company Limited. The Group recognised gain on change in ownership interest in subsidiaries to joint ventures amounting to Baht 1,330.72 million in the consolidated statements of comprehensive income for the year ended 2022.



**Gunkul Engineering Public Company Limited and its Subsidiaries**  
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	Type of business	Ownership interest		Consolidated financial statements		Cost		Impairment		Separate financial statements		Dividend income for the year	
		2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021
		(%)		Equity						(in thousand Baht)			
<b>Indirect joint ventures</b>													
Joint venture SPI & GPD	Provide cleaning services and goods shipping	50.00	50.00	545	565	-	-	-	-	-	-	-	-
THCG Group Co., Ltd.	Production and selling products that derived from hemp and cannabis	50.00	50.00	227,134	247,299	-	-	-	-	-	-	-	-
Origin Gunkul Energy Co., Ltd.	Generating and selling electricity	50.00	50.00	1,806	432	-	-	-	-	-	-	-	-
Pun New Energy Co., Ltd	Generating and selling electricity	50.00	-	14,886	-	-	-	-	-	-	-	-	-
				<u>244,371</u>	<u>248,296</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
<b>Total</b>				<u><b>5,541,707</b></u>	<u><b>1,832,685</b></u>	<u><b>2,290,773</b></u>	<u><b>1,123,773</b></u>	<u><b>-</b></u>	<u><b>-</b></u>	<u><b>2,290,773</b></u>	<u><b>1,123,773</b></u>	<u><b>604,141</b></u>	<u><b>216,774</b></u>

All associate and joint ventures were incorporated in Thailand, except Kenyir Gunkul Solar Sdn Bhd. which was incorporated and operated in Malaysia. None of the Group's associate and joint ventures are publicly listed and consequently do not have published price quotations.

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*Material associates and joint ventures*

The following table summarises the financial information of the associates and joint ventures as included in their own financial statements, adjusted for fair value adjustments at acquisition and differences in accounting policies. The table also reconciles the summarised financial information to the carrying amount of the Group's interest in these companies.

	<b>Associate</b>		<b>Joint venture</b>		<b>Joint venture</b>
	G-Power Source Co., Ltd.		Gunkul Chubu Powergen Co., Ltd.		Gulf Gunkul Corporation Co., Ltd
	2022	2021	2022	2021	For the period from 27 July 2022 to 31 December 2022
	<i>(in thousand Baht)</i>				
Revenue	308,390	526,067	503,446	535,791	1,142,307
Profit for the year / period	202,410	362,168	302,592	332,329	710,211
Less impairment losses	<u>(74,354)</u>	<u>(282,690)</u>	<u>-</u>	<u>(51,081)</u>	<u>-</u>
Net profit (loss)	128,056	79,478	302,592	281,248	710,211
Other comprehensive income (expense)	<u>-</u>	<u>-</u>	<u>-</u>	<u>38</u>	<u>-</u>
Total comprehensive income (expense) (100%)	<u>128,056</u>	<u>79,478</u>	<u>302,592</u>	<u>281,286</u>	<u>710,211</u>
Total comprehensive income (expense) of the Group's interest (40%, 51% and 50% hold)	51,222	31,791	154,322	143,456	355,106
Elimination of unrealised profit on sales of assets	8,140	8,140	7,251	7,251	-
Power purchase agreement and others	<u>(4,384)</u>	<u>(4,384)</u>	<u>(11,394)</u>	<u>(11,394)</u>	<u>(13,050)</u>
<b>Group's share of total comprehensive income (expense)</b>	<b><u>54,978</u></b>	<b><u>35,547</u></b>	<b><u>150,179</u></b>	<b><u>139,313</u></b>	<b><u>342,056</u></b>
	<b>Associate</b>		<b>Joint venture</b>		<b>Joint venture</b>
	G-Power Source Co., Ltd.		Gunkul Chubu Powergen Co., Ltd.		Gulf Gunkul Corporation Co., Ltd
	2022	2021	2022	2021	2022
	<i>(in thousand Baht)</i>				
Current assets	175,966	195,226	172,603	209,949	1,775,471
Non-current assets	1,281,812	1,389,773	1,711,833	1,817,950	11,380,514
Current liabilities	(362,427)	(460,234)	(28,834)	(195,788)	(1,498,491)
Non-current liabilities	<u>(19,474)</u>	<u>(43,023)</u>	<u>(2,149)</u>	<u>(10,533)</u>	<u>(5,339,357)</u>
Net assets (100%)	<u>1,075,877</u>	<u>1,081,742</u>	<u>1,853,453</u>	<u>1,821,578</u>	<u>6,318,137</u>
Group's share of net assets (40%, 51% and 50% hold)	430,351	432,697	945,261	929,005	3,159,069
Elimination of unrealised profit on sales of assets	(118,068)	(126,208)	(113,270)	(120,521)	-
Power purchase agreement	<u>63,141</u>	<u>67,525</u>	<u>174,032</u>	<u>185,425</u>	<u>511,733</u>
<b>Carrying amount of interest in associate and joint venture</b>	<b><u>375,424</u></b>	<b><u>374,014</u></b>	<b><u>1,006,023</u></b>	<b><u>993,909</u></b>	<b><u>3,670,802</u></b>

**Gunkul Engineering Public Company Limited and its Subsidiaries**  
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	<b>Joint ventures</b>		
	Gunkul Chubu Powergen Co., Ltd. 2022	2021	Gulf Gunkul Corporation Co., Ltd. 2022
	<i>(in thousand Baht)</i>		
Remark:			
a. Includes:			
– depreciation and amortisation	106,131	110,288	514,026
– interest expense	4,124	13,589	267,068
– income tax expense	31,787	17,494	693
b. Includes cash and cash equivalents	68,635	10	3,342
c. Short-term deposits from financial institution pledged as collateral	-	111,026	1,204,932
d. Includes current financial liabilities (excluding trade, other payables and provisions)	-	172,429	1,129,368
e. Includes non-current financial liabilities (excluding trade, other payables and provisions)	-	8,399	5,133,909

*Gulf Gunkul Corporation Co., Ltd.*

On 12 February 2023, Wind Energy Development Company Limited, a subsidiary of Gulf Gunkul Corporation Co., Ltd., was judged by Nakhon Ratchasima Administrative Court to revoke the land title deeds of 32 plots which are a part of wind power project, and the said company is in the process of exercise the right to appeal the verdict of Administrative Court. However, this legal case has not finalised yet, Wind Energy Development Company Limited remains operate its electricity generating business as usual.

*Impairment assessment for power plants*

During 2022, the managements of the associate and joint venture found a decline in budgeted net cashflow from revenues due to the subsidy income (Adder) will be soon expired. The managements of the associate and joint venture has calculated the recoverable amount using the value in use method. The value in use method is calculated by determining discounted future cashflows. The key assumptions used to determine value in use included electricity price, operating expenditures over the remaining economic useful life of the assets and discount rate referred to weighted average cost to capital (WACC) at 7% - 7.16% (2021: at 6.28% - 6.30%). As a results, the value in use of assets was lower than the carrying amounts. The Group recognised an impairment loss from the associate in the proportion of the Group's interest amounting to Baht 29.74 million, and recorded in share of profit of associates and joint ventures accounted for using equity method account in the consolidated statement of comprehensive income for the year 2022 (2021: Associate of Baht 113.08 million and joint ventures of Baht 26.05 million).

**Gunkul Engineering Public Company Limited and its Subsidiaries**  
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*Immaterial joint ventures*

The following is summarised financial information for the Group's interest in immaterial joint ventures based on the amounts reported in the Group's consolidated financial statements:

	<b>Immaterial joint ventures</b>	
	2022	2021
	<i>(in thousand Baht)</i>	
Carrying amount of interests in immaterial joint ventures	489,458	464,762
Group's share of:		
- Profit (loss) from continuing operations	(36,571)	29,815
- Other comprehensive income (expense)	-	-
- Total comprehensive income (expense)	<u><b>(36,571)</b></u>	<u><b>29,815</b></u>

**11 Investments in subsidiaries**

		<b>Separate</b>	
		<b>financial statements</b>	
	<i>Note</i>	2022	2021
		<i>(in thousand Baht)</i>	
At 1 January		15,567,926	15,712,438
Increase in share capital of subsidiaries	<i>c</i>	3,015,323	765,789
Acquisition of non-controlling interests	<i>d</i>	120,000	-
Sale of investments in subsidiaries	<i>e</i>	(5,681,400)	-
Classified to investment in joint ventures	<i>10(b)</i>	(1,117,000)	-
Decrease in share capital	<i>f</i>	(22,177)	(896,788)
Impairment loss		(9,729)	(13,513)
<b>At 31 December</b>		<u><b>11,872,943</b></u>	<u><b>15,567,926</b></u>

*c. Increase in share capital of subsidiaries*

<i>For the year ended 31 December</i>	2022	2021
	<i>(in thousand Baht)</i>	
<b><i>Subsidiaries</i></b>		
Gunkul Infinite Group Co., Ltd.	-	23,805
Joint venture GKE & FEC	-	2,100
Solar Energy Society Co., Ltd.	15,000	366,536
G.K. Real Estate (2564) Co., Ltd.	-	57,599
K.N.P Supply Co., Ltd.	149,700	20,250
Gunkul Power Development Co., Ltd.	50,000	-
G.K. Hemp Group Co., Ltd.	280,000	270,000
Gunkul Wind Power 1 Co., Ltd.	3,750	1,250
Gunkul Wind Power 2 Co., Ltd.	3,750	1,250
Gunkul Wind Power 3 Co., Ltd.	-	1,250
Gunkul Wind Power 4 Co., Ltd.	3,750	1,250
Gunkul Wind Power 5 Co., Ltd.	-	2,000
Gunkul Wind Power 6 Co., Ltd.	3,000	3,000
Gunkul Wind Power 7 Co., Ltd.	3,000	3,000
Gunkul Wind Power 8 Co., Ltd.	3,749	1,250
Gunkul Wind Power 9 Co., Ltd.	3,749	1,250
G.A.P Supply Co., Ltd.	3,249	-
Gunkul Solar Powergen Co., Ltd.	225,543	-
Gunkul One Energy 2 Co., Ltd.	143,115	-

**Gunkul Engineering Public Company Limited and its Subsidiaries**  
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<i>For the year ended 31 December</i>	2022	2021
	<i>(in thousand Baht)</i>	
Gunkul One Energy 5 Co., Ltd.	43,300	-
Gunkul One Energy 9 Co., Ltd.	230,418	-
Gunkul One Energy 11 Co., Ltd.	110,250	-
Gunkul Wind Development 1 Co., Ltd.	158,250	-
Gunkul Wind Development 3 Co., Ltd.	158,250	-
Gunkul Wind Development 6 Co., Ltd.	158,250	-
Gunkul Wind Development 8 Co., Ltd.	158,250	-
Gulf Gunkul Corporation Co., Ltd. <i>(Gunkul Grand Asset Co., Ltd.)</i>	1,107,000	9,999
<b>Total</b>	<b><u>3,015,323</u></b>	<b><u>765,789</u></b>

***Establishment of subsidiaries***

***G Wind Power Holding 3 Co., Ltd. and G Wind Power Holding 5 Co., Ltd.***

During the year ended 31 December 2022, the Company established G Wind Power Holding 3 Co., Ltd. and G Wind Power Holding 5 Co., Ltd. and held 100% shareholding in such subsidiaries. The Company has transferred its share held in Gunkul Wind Power 3 Co., Ltd. and Gunkul Wind Power 5 Co., Ltd., the Company subsidiaries, in the amount of Baht 1.25 million and Baht 2 million to G Wind Power Holding 3 Co., Ltd. and G Wind Power Holding 5 Co., Ltd., respectively. Therefore, Gunkul Wind Power 3 Co., Ltd. and Gunkul Wind Power 5 Co., Ltd. were changed from direct subsidiary to indirect subsidiary of the Company.

***G.A.P Supply Co., Ltd.***

On 28 June 2022, the Company established G.A.P Supply Co., Ltd. in order to selling of equipments for electrical systems with registered capital of Bath 10 million and held 100% shareholding in such subsidiary. The Company paid for the share capital amounting to Bath 3.25 million.

***Gunkul Solar Powergen Co., Ltd.***

On 17 August 2022, the Company established Gunkul Solar Powergen Co., Ltd. in order to generating and selling electricity with registered capital of Bath 899.18 million and held 100% shareholding in such subsidiary. The Company paid for the share capital amounting to Bath 225.54 million.

***Gunkul One Energy 2 Co., Ltd.***

On 27 September 2022, the Company established Gunkul One Energy 2 Co., Ltd. in order to generating and selling electricity with registered capital of Bath 569.46 million and held 100% shareholding in such subsidiary. The Company paid for the share capital amounting to Bath 143.12 million.

***Gunkul One Energy 5 Co., Ltd.***

On 27 September 2022, the Company established Gunkul One Energy 5 Co., Ltd. in order to generating and selling electricity with registered capital of Bath 95 million and held 100% shareholding in such subsidiary. The Company paid for the share capital amounting to Bath 43.30 million.

***Gunkul One Energy 9 Co., Ltd.***

On 27 September 2022, the Company established Gunkul One Energy 9 Co., Ltd. in order to generating and selling electricity with registered capital of Bath 918.68 million and held 100% shareholding in such subsidiary. The Company paid for the share capital amounting to Bath 230.42 million.

**Gunkul Engineering Public Company Limited and its Subsidiaries**  
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***Gunkul One Energy 11 Co., Ltd.***

On 27 September 2022, the Company established Gunkul One Energy 11 Co., Ltd. in order to generating and selling electricity with registered capital of Bath 438 million and held 100% shareholding in such subsidiary. The Company paid for the share capital amounting to Bath 110.25 million.

***Gunkul Wind Development 1 Co., Ltd.***

On 27 September 2022, the Company established Gunkul Wind Development 1 Co., Ltd. in order to generating and selling electricity with registered capital of Bath 630 million and held 100% shareholding in such subsidiary. The Company paid for the share capital amounting to Bath 158.25 million.

***Gunkul Wind Development 3 Co., Ltd.***

On 27 September 2022, the Company established Gunkul Wind Development 3 Co., Ltd. in order to generating and selling electricity with registered capital of Bath 630 million and held 100% shareholding in such subsidiary. The Company paid for the share capital amounting to Bath 158.25 million.

***Gunkul Wind Development 6 Co., Ltd.***

On 27 September 2022, the Company established Gunkul Wind Development 6 Co., Ltd. in order to generating and selling electricity with registered capital of Bath 630 million and held 100% shareholding in such subsidiary. The Company paid for the share capital amounting to Bath 158.25 million.

***Gunkul Wind Development 8 Co., Ltd.***

On 27 September 2022, the Company established Gunkul Wind Development 8 Co., Ltd. in order to generating and selling electricity with registered capital of Bath 630 million and held 100% shareholding in such subsidiary. The Company paid for the share capital amounting to Bath 158.25 million.

***d. Acquisition of non-controlling interests***

***Gunkul Infinite Group Co., Ltd.***

At the Board of Directors Meeting of the Company held on 17 December 2021, the Board of Directors approved to purchase of additional ordinary shares in Gunkul Infinite Group Company Limited, the Group's subsidiary, in the number of 0.785 million shares which is the proportion of 25% of total paid-up share capital. Formerly, the Company has 74.99% interest in the said subsidiary, after share transfer was completed, the Company's interest will be 99.99%. Total purchase price is Baht 120 million in order to support and expand the rental business, sublease, asset management and electricity generation from renewable energy businesses. As at 31 December 2021, the Company paid for advance for shares subscription of Baht 60 million.

On 19 January 2022, the Company paid for the remaining share subscription of Baht 60 million. Total purchase price is Baht 120 million. The carrying amount Gunkul Infinite Group Company Limited's net assets in the Group's financial statements on the date of the acquisition was Baht 413.97 million. The Group recognised a decrease in non-controlling interests of Baht 103.58 million and recognised deficit from changes in ownership interest in subsidiary of Baht 16.42 million.



**Gunkul Engineering Public Company Limited and its Subsidiaries**  
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*e. Sale of investments in subsidiaries*

At the Board of Director's Meeting held on 10 June 2022, the Board approved the restructuring of the Group to support future investment by transfer all ordinary share of Wind Energy Development Company Limited, Greenovation Power Company Limited and Korat Wind Energy Company Limited (called as "Wind Energy Group"), the Company's direct subsidiaries, to Gulf Gunkul Corporation Company Limited (formerly known as Gunkul Grand Asset Co., Ltd.) which is the Company's subsidiary. Total investment at cost is Baht 5,681.4 million and the selling price is Baht 6,116.82 million, the restructuring was completed on 27 July 2022. The Company recognised gain on sale of investments in subsidiaries in the separate statements of comprehensive income for the year ended 31 December 2022 amounting to Baht 435.42 million.

*f. Decrease in share capital of subsidiary*

*Joint Venture GKE & GPD Co., Ltd.*

During the year ended 31 December 2022, Joint Venture GKE & GPD Co.,Ltd., the Company subsidiary, has registered its dissolution and the liquidation process has been completed. The Company has 100% interest in such subsidiary with the total investment of Baht 10 million. The Company recognised impairment loss in profit or loss of Baht 0.08 million and received cash from dissolution of Baht 9.92 million.

*GO Bioenergy Co., Ltd.*

During the year ended 31 December 2022, GO Bioenergy Co., Ltd., the Company subsidiary, has completed its liquidation process. The Company has 74.9% interest in such subsidiary with the total investment of Baht 25.69 million. The Company has recognised impairment loss of Baht 13.5 million and received cash from capital reduction of Baht 12.16 million.

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	Type of business	Country of operation	Separate financial statements								Dividend income			
			Ownership interest		Cost		Impairment		At cost - net		for the year			
			2022	2021	2022	2021	2022	2021	2022	2021	2022	2021		
			(%)		(in thousand Baht)									
<b>Subsidiaries</b>														
G.K. Power Product Co., Ltd.	Manufacturing and selling of equipments for electrical systems	Thailand	100.00	100.00	80,425	80,425	-	-	80,425	80,425	-	-		
G.K. Assembly Co., Ltd.	Manufacturing and selling of equipments for electrical system	Thailand	100.00	100.00	163,188	163,188	-	-	163,188	163,188	-	-		
K.N.P Supply Co.,Ltd.	Import-export and selling equipments for electrical systems	Thailand	100.00	100.00	173,857	24,158	-	-	173,857	24,158	-	-		
Greenovation Power Co., Ltd.	Generating and selling electricity	Thailand	-	100.00	-	1,916,500	-	-	-	1,916,500	-	377,190		
Wind Energy Development Co., Ltd.	Generating and selling electricity	Thailand	-	100.00	-	2,226,150	-	-	-	2,226,150	-	138,600		
NK Power Sola Co., Ltd.	Generating and selling electricity	Thailand	100.00	100.00	40,854	40,854	-	-	40,854	40,854	13,070	14,000		
Gunkul Solar Roof 1 Co., Ltd.	Generating and selling electricity	Thailand	100.00	100.00	21,000	21,000	-	-	21,000	21,000	-	-		
Gunkul Training Center Co., Ltd.	Provide training services	Thailand	100.00	100.00	1,000	1,000	-	-	1,000	1,000	-	1,200		
Solar Energy Society Co., Ltd.	Generating and selling electricity	Thailand	100.00	100.00	750,000	735,000	-	-	750,000	735,000	-	-		
Bright Green Power Co., Ltd.	Investing in companies	Thailand	100.00	100.00	1,306,410	1,306,410	-	-	1,306,410	1,306,410	-	-		
Gunkul Power Development Co., Ltd.	Construction	Thailand	100.00	100.00	350,000	300,000	-	-	350,000	300,000	79,975	-		
Gunkul Solar Community Co., Ltd.	Generating and selling electricity	Thailand	100.00	100.00	20,000	20,000	-	-	20,000	20,000	19,000	-		
Siam Gunkul Solar Energy Co., Ltd.	Generating and selling electricity	Thailand	100.00	100.00	40,899	40,899	-	-	40,899	40,899	3,010	3,354		
Korat Wind Energy Co., Ltd.	Generating and selling electricity	Thailand	-	100.00	-	1,538,750	-	-	-	1,538,750	-	466,933		
Gunkul Utility and Energy Co. Ltd	Manufacturing and selling of energy - saving products	Thailand	100.00	100.00	40,600	40,600	-	-	40,600	40,600	-	-		
GO Bioenergy Co., Ltd.	Investing in companies	Thailand	-	74.90	-	25,690	-	(13,513)	-	12,177	-	-		
Infinite Alternative Energy Co., Ltd.	Investing in companies	Thailand	100.00	100.00	1,868,576	1,868,576	-	-	1,868,576	1,868,576	295,440	355,028		
Eco Thaienergy Co., Ltd.	Generating and selling electricity	Thailand	51.00	51.00	42,015	42,015	-	-	42,015	42,015	5,263	4,202		

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	Type of business	Country of operation	Separate financial statements								Dividend income			
			Ownership interest		Cost		Impairment		At cost - net		for the year			
			2022	2021	2022	2021	2022	2021	2022	2021	2022	2021		
			(%)		(in thousand Baht)									
Gunkul Infinite Group Co., Ltd.	Generating and selling electricity	Thailand	100.00	75.00	355,500	235,500	-	-	355,500	235,500	94,357	-		
Gunkul International (Mauritius)	Investing in companies	Mauritius	100.00	100.00	3,843,657	3,843,657	-	-	3,843,657	3,843,657	186,978	1,068,510		
Gunkul Solar Power Co., Ltd.	Generating and selling electricity	Thailand	100.00	100.00	179,250	179,250	-	-	179,250	179,250	-	-		
BMP Solar Co., Ltd.	Generating and selling electricity	Thailand	100.00	100.00	216,938	216,938	-	-	216,938	216,938	19,498	21,798		
G.K. Hemp Group Co., Ltd.	Investing in companies	Thailand	100.00	100.00	550,000	270,000	-	-	550,000	270,000	-	-		
G.K. Real Estate (2564) Co., Ltd.	Investing in real estate	Thailand	100.00	100.00	57,600	57,600	-	-	57,600	57,600	-	-		
Gunkul Wind Power 1 Co., Ltd.	Generating and selling electricity	Thailand	100.00	100.00	5,000	1,250	-	-	5,000	1,250	-	-		
Gunkul Wind Power 2 Co., Ltd.	Generating and selling electricity	Thailand	100.00	100.00	5,000	1,250	-	-	5,000	1,250	-	-		
Gunkul Wind Power 3 Co., Ltd.	Generating and selling electricity	Thailand	-	100.00	-	1,250	-	-	-	1,250	-	-		
Gunkul Wind Power 4 Co., Ltd.	Generating and selling electricity	Thailand	100.00	100.00	5,000	1,250	-	-	5,000	1,250	-	-		
Gunkul Wind Power 5 Co., Ltd.	Generating and selling electricity	Thailand	100.00	100.00	-	1,999	-	-	-	1,999	-	-		
Gunkul Wind Power 6 Co., Ltd.	Generating and selling electricity	Thailand	100.00	100.00	5,999	2,999	-	-	5,999	2,999	-	-		
Gunkul Wind Power 7 Co., Ltd.	Generating and selling electricity	Thailand	100.00	100.00	5,999	2,999	-	-	5,999	2,999	-	-		
Gunkul Wind Power 8 Co., Ltd.	Generating and selling electricity	Thailand	100.00	100.00	4,999	1,250	-	-	4,999	1,250	-	-		
Gunkul Wind Power 9 Co., Ltd.	Generating and selling electricity	Thailand	100.00	100.00	4,999	1,250	-	-	4,999	1,250	-	-		
G Wind Power Holding 3 Co., Ltd	Investment in other company	Thailand	100.00	-	1,250	-	-	-	1,250	-	-	-		
G Wind Power Holding 5 Co., Ltd	Investment in other company	Thailand	100.00	-	1,999	-	-	-	1,999	-	-	-		
Gunkul Grand Asset Co., Ltd.	Construction	Thailand	-	100.00	-	10,000	-	-	-	10,000	-	-		
Joint venture GKE & GPD Company Limited	Construction	Thailand	-	50.00	-	10,000	(9,729)	-	-	10,000	-	-		
Joint venture GKE & FEC	Construction	Thailand	60.00	60.00	17,700	17,700	-	-	7,971	17,700	-	-		
GAP Supply Co., Ltd.	Import and export equipments for electrical systems	Thailand	100.00	-	3,250	-	-	-	3,250	-	-	-		
Gunkul Solar Powergen Co., Ltd.	Generating and selling electricity	Thailand	100.00	-	225,543	-	-	-	225,543	-	-	-		
Gunkul Wind Development 1 Co., Ltd.	Generating and selling electricity	Thailand	100.00	-	158,250	-	-	-	158,250	-	-	-		

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	Type of business	Country of operation	Separate financial statements								Dividend income for the year		
			Ownership interest		Cost		Impairment		At cost - net		2022	2021	
			2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	
			(%)		(in thousand Baht)								
Gunkul Wind Development 3 Co., Ltd.	Generating and selling electricity	Thailand	100.00	-	158,250	-	-	-	158,250	-	-	-	-
Gunkul Wind Development 6 Co., Ltd.	Generating and selling electricity	Thailand	100.00	-	158,250	-	-	-	158,250	-	-	-	-
Gunkul Wind Development 8 Co., Ltd.	Generating and selling electricity	Thailand	100.00	-	158,250	-	-	-	158,250	-	-	-	-
Gunkul One Energy 2 Co., Ltd.	Generating and selling electricity	Thailand	100.00	-	143,115	-	-	-	143,115	-	-	-	-
Gunkul One Energy 5 Co., Ltd.	Generating and selling electricity	Thailand	100.00	-	43,300	-	-	-	43,300	-	-	-	-
Gunkul One Energy 9 Co., Ltd.	Generating and selling electricity	Thailand	100.00	-	230,418	-	-	-	230,418	-	-	-	-
Gunkul One Energy 11 Co., Ltd.	Generating and selling electricity	Thailand	100.00	-	110,250	-	-	-	110,250	-	-	-	-
Gunkul Engineering (Myanmar) Company Limited	Import and selling equipments for electrical systems	Myanmar	100.00	100.00	1,588	1,588	-	-	1,588	1,588	-	-	-
Doan Son Thuy Investment Joint Stock Company	Generating and selling electricity	Vietnam	100.00	100.00	332,494	332,494	-	-	332,494	332,494	53,138	-	-
<b>Total</b>					<b><u>11,882,672</u></b>	<b><u>15,581,439</u></b>	<b><u>(9,729)</u></b>	<b><u>(13,513)</u></b>	<b><u>11,872,943</u></b>	<b><u>15,567,926</u></b>	<b><u>769,729</u></b>	<b><u>2,450,815</u></b>	

None of the Company's subsidiaries are publicly listed and consequently do not have published price quotations.

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**12 Property, plant and equipment**

	<b>Consolidated financial statements</b>						
	Land	Building, building improvement and utility system	Machinery and equipment	Furniture, fixtures and office equipment <i>(in thousand Baht)</i>	Vehicles	Assets under construction	Total
<i>Cost</i>							
At 1 January 2021	1,764,013	1,877,140	26,227,954	100,489	88,610	652,121	30,710,327
Additions	-	355,769	29,163	6,180	-	904,186	1,295,298
Transfers	-	4,968	448,980	-	-	(453,948)	-
Transfers from right-of-use assets	-	-	-	-	12,635	-	12,635
Disposals	-	(351,473)	(471,193)	(14,064)	(116)	(5,133)	(841,979)
Effect of movements in exchange rates	(98)	104,314	407,402	44	-	-	511,662
<b>At 31 December 2021 and 1 January 2022</b>	<b>1,763,915</b>	<b>1,990,718</b>	<b>26,642,306</b>	<b>92,649</b>	<b>101,129</b>	<b>1,097,226</b>	<b>31,687,943</b>
Additions	39,090	227,372	165,357	22,840	2,650	374,379	831,688
Transfers	19,475	59,843	484,000	-	-	(563,318)	-
Transfers from right-of-use assets	-	-	-	-	4,897	-	4,897
Disposals	-	(29,187)	(458,843)	(9,362)	(3,391)	(12,475)	(513,258)
Change in ownership interest in subsidiaries to joint ventures <i>(Note 10)</i>	(644,722)	(256,160)	(11,709,390)	(1,220)	(5,916)	-	(12,617,408)
Effect of movements in exchange rates	(71,340)	(1,797)	(629,833)	(303)	-	(165)	(703,438)
<b>At 31 December 2022</b>	<b>1,106,418</b>	<b>1,990,789</b>	<b>14,493,597</b>	<b>104,604</b>	<b>99,369</b>	<b>895,647</b>	<b>18,690,424</b>

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	Land	Building, building improvement and utility system	Machinery and equipment	Furniture, fixtures and office equipment <i>(in thousand Baht)</i>	Vehicles	Assets under construction	Total
<b><i>Accumulated depreciation and impairment losses</i></b>							
At 1 January 2021	-	(255,731)	(3,411,710)	(73,540)	(54,609)	(322)	(3,795,912)
Depreciation charge for the year	-	(81,509)	(1,225,665)	(10,265)	(4,731)	-	(1,322,170)
Transfers from right-of-use assets	-	-	-	-	(10,321)	-	(10,321)
Disposals	-	263	9,532	13,641	115	-	23,551
Effect of movements in exchange rates	-	(8,145)	(39,306)	(11)	-	-	(47,462)
<b>At 31 December 2021 and 1 January 2022</b>	-	<b>(345,122)</b>	<b>(4,667,149)</b>	<b>(70,175)</b>	<b>(69,546)</b>	<b>(322)</b>	<b>(5,152,314)</b>
Depreciation charge for the year	(2,763)	(89,078)	(1,031,362)	(12,030)	(4,415)	-	(1,139,648)
Transfers from right-of-use assets	-	-	-	-	(2,777)	-	(2,777)
Disposals	-	55	9,061	6,815	2,741	-	18,672
Change in ownership interest in subsidiaries to joint ventures <i>(Note 10)</i>	-	47,313	2,157,251	984	3,895	-	2,209,443
Effect of movements in exchange rates	-	1,062	106,776	212	-	-	108,050
<b>At 31 December 2022</b>	<b>(2,763)</b>	<b>(385,770)</b>	<b>(3,425,423)</b>	<b>(74,194)</b>	<b>(70,102)</b>	<b>(322)</b>	<b>(3,958,574)</b>
<b><i>Net book value</i></b>							
<b>At 31 December 2021</b>	<b>1,763,915</b>	<b>1,645,596</b>	<b>21,975,157</b>	<b>22,474</b>	<b>31,583</b>	<b>1,096,904</b>	<b>26,535,629</b>
<b>At 31 December 2022</b>	<b>1,103,655</b>	<b>1,605,019</b>	<b>11,068,174</b>	<b>30,410</b>	<b>29,267</b>	<b>895,325</b>	<b>14,731,850</b>

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	<b>Separate financial statements</b>					
	Building and building improvement	Machinery and equipment	Furniture, fixtures and office equipment <i>(in thousand Baht)</i>	Vehicles	Assets under construction	Total
<b>Cost</b>						
At 1 January 2021	32,608	19,081	61,055	56,677	2,778	172,199
Additions	472	91	2,532	-	332	3,427
Disposals	-	(116)	(8,407)	-	(3,110)	(11,633)
<b>At 31 December 2021 and 1 January 2022</b>	<b>33,080</b>	<b>19,056</b>	<b>55,180</b>	<b>56,677</b>	<b>-</b>	<b>163,993</b>
Additions	-	20	8,299	-	-	8,319
Transfers from right-of-use assets	-	-	-	3,579	-	3,579
Transfers	-	(55)	(5,593)	(1,689)	-	(7,337)
<b>At 31 December 2022</b>	<b>33,080</b>	<b>19,021</b>	<b>57,886</b>	<b>58,567</b>	<b>-</b>	<b>168,554</b>
<b>Accumulated depreciation</b>						
At 1 January 2021	(30,254)	(18,325)	(43,812)	(32,951)	-	(125,342)
Depreciation charge for the year	(490)	(264)	(7,023)	(3,286)	-	(11,063)
Disposals	-	116	8,401	-	-	8,517
<b>At 31 December 2021 and 1 January 2022</b>	<b>(30,744)</b>	<b>(18,473)</b>	<b>(42,434)</b>	<b>(36,237)</b>	<b>-</b>	<b>(127,888)</b>
Depreciation charge for the year	(564)	(268)	(7,531)	(3,156)	-	(11,519)
Transfers from right-of-use assets	-	-	-	(1,629)	-	(1,629)
Disposals	-	55	4,776	1,243	-	6,074
<b>At 31 December 2022</b>	<b>(31,308)</b>	<b>(18,686)</b>	<b>(45,189)</b>	<b>(39,779)</b>	<b>-</b>	<b>(134,962)</b>
<b>Net book value</b>						
<b>At 31 December 2021</b>	<b>2,336</b>	<b>583</b>	<b>12,746</b>	<b>20,440</b>	<b>-</b>	<b>36,105</b>
<b>At 31 December 2022</b>	<b>1,772</b>	<b>335</b>	<b>12,697</b>	<b>18,788</b>	<b>-</b>	<b>33,592</b>

*Security*

At 31 December 2022, the Group has pledged land, building and machinery with a net book value of Baht 11,099.24 million as collateral to secure long-term loans (See note 15) (2021: Baht 22,332.06 million).

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**13 Leases**

<i>Right-of-use assets</i> <i>At 31 December</i>	<b>Consolidated</b> <b>financial statements</b>		<b>Separate</b> <b>financial statements</b>	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
Land	320,191	457,150	-	-
Buildings	20,021	29,663	12,581	24,501
Warehouse	12,194	13,077	3,968	7,937
Rooftop for solar power plant	36,979	16,547	-	-
Vehicles	15,642	27,448	21,054	14,642
<b>Total</b>	<b>405,027</b>	<b>543,885</b>	<b>37,603</b>	<b>47,080</b>

In 2022, additions to the right-of-use assets of the Group and the Company were Baht 40.07 million and Baht 8.76 million, respectively (2021: Baht 12.61 million and Baht 8.98 million, respectively).

*Extension options*

The Group has extension options on property leases exercisable up to one year before the end of the contract period. The Group assesses at lease commencement date whether it is reasonably certain to exercise the extension options and will regularly reassess so.

<i>For the year ended 31 December</i>	<b>Consolidated</b> <b>financial statements</b>		<b>Separate</b> <b>financial statements</b>	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
<b>Amounts recognised in profit or loss</b>				
Depreciation of right-of-use assets:				
- Land	45,535	23,410	-	-
- Buildings	16,755	13,909	11,921	11,261
- Warehouse	9,103	7,625	3,968	3,968
- Rooftop for solar power plant	906	906	-	-
- Vehicles	7,426	7,886	4,473	3,755
Interest on lease liabilities	19,930	22,037	911	1,390
Expenses relating to short-term leases and leases of low-value assets	2,740	5,193	1,324	1,944

In 2022, total cash outflow for leases of the Group and the Company were Baht 71.36 million and Baht 20.74 million respectively. (2021: Baht 74.74 million and Baht 17.21 million, respectively).



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**For the year ended 31 December 2022**

**14 Intangible assets and goodwill**

	<b>Consolidated financial statements</b>					
	Software licences	Right to use electrical transmission line	Right to power purchase agreement and right to operate	Goodwill	Software under installation	Total
	<i>(in thousand Baht)</i>					
<b>Cost</b>						
At 1 January 2021	34,452	890,804	2,984,864	163,476	-	4,073,596
Additions	4,716	1,320	-	-	4,710	10,746
Disposals	-	(1,622)	-	-	-	(1,622)
Effect of movements in exchange rates	407	-	47,936	-	-	48,343
<b>At 31 December 2021 and 1 January 2022</b>	<b>39,575</b>	<b>890,502</b>	<b>3,032,800</b>	<b>163,476</b>	<b>4,710</b>	<b>4,131,063</b>
Additions	5,102	4,518	-	-	12,509	22,129
Decrease	-	-	(3,975)	-	-	(3,975)
Transfer	1,840	1,812	-	-	(3,652)	-
Disposals	(1,577)	(634)	-	-	-	(2,211)
Change in ownership interest in subsidiaries to joint ventures ( <i>Note 10</i> )	(239)	(785,410)	(1,662,845)	(82,551)	(10,688)	(2,541,733)
Effect of movements in exchange rates	(2)	-	(42,298)	-	-	(42,300)
<b>At 31 December 2022</b>	<b>44,699</b>	<b>110,788</b>	<b>1,323,682</b>	<b>80,925</b>	<b>2,879</b>	<b>1,562,973</b>
<b>Accumulated amortisation and impairment losses</b>						
At 1 January 2021	(15,745)	(115,903)	(363,822)	-	-	(495,470)
Amortisation charge for the year	(5,995)	(35,647)	(128,722)	-	-	(170,364)
Effect of movements in exchange rates	(617)	-	(1,116)	-	-	(1,733)
<b>At 31 December 2021 and 1 January 2022</b>	<b>(22,357)</b>	<b>(151,550)</b>	<b>(493,660)</b>	<b>-</b>	<b>-</b>	<b>(667,567)</b>
Amortisation charge for the year	(6,185)	(22,270)	(93,966)	-	-	(122,421)
Disposal	1,230	-	-	-	-	1,230
Change in ownership interest in subsidiaries to joint ventures ( <i>Note 10</i> )	193	146,915	323,896	-	-	471,004
Effect of movements in exchange rates	14	-	7,508	-	-	7,522
<b>At 31 December 2022</b>	<b>(27,105)</b>	<b>(26,905)</b>	<b>(256,222)</b>	<b>-</b>	<b>-</b>	<b>(310,232)</b>
<b>Net book value</b>						
<b>At 31 December 2021</b>	<b>17,218</b>	<b>738,952</b>	<b>2,539,140</b>	<b>163,476</b>	<b>4,710</b>	<b>3,463,496</b>
<b>At 31 December 2022</b>	<b>17,594</b>	<b>83,883</b>	<b>1,067,460</b>	<b>80,925</b>	<b>2,879</b>	<b>1,252,741</b>



**Gunkul Engineering Public Company Limited and its Subsidiaries**  
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	<b>Separate financial statements</b>		
	Software licences	Software in progress <i>(in thousand Baht)</i>	Total
<b>Cost</b>			
At 1 January 2021	13,500	-	13,500
Additions	4,352	1,841	6,193
<b>At 31 December 2021 and 1 January 2022</b>	<b>17,852</b>	<b>1,841</b>	<b>19,693</b>
Additions	2,460	-	2,460
Transfer	1,841	(1,841)	-
<b>At 31 December 2022</b>	<b>22,153</b>	<b>-</b>	<b>22,153</b>
<b>Accumulated amortisation</b>			
At 1 January 2021	(6,665)	-	(6,665)
Amortisation charge for the year	(3,211)	-	(3,211)
<b>At 31 December 2021 and at 1 January 2022</b>	<b>(9,876)</b>	<b>-</b>	<b>(9,876)</b>
Amortisation charge for the year	(2,920)	-	(2,920)
<b>At 31 December 2022</b>	<b>(12,796)</b>	<b>-</b>	<b>(12,796)</b>
<b>Net book value</b>			
<b>At 31 December 2021</b>	<b>7,976</b>	<b>1,841</b>	<b>9,817</b>
<b>At 31 December 2022</b>	<b>9,357</b>	<b>-</b>	<b>9,357</b>

**15 Interest-bearing liabilities**

	<b>Consolidated financial statements</b>		<b>Separate financial statements</b>	
	2022	2021	2022	2021
<i>(in thousand Baht)</i>				
<b>Current</b>				
Short-term loans from financial institutions - unsecured	481,652	1,646,044	-	1,220,907
Less unamortised discount	-	(1,356)	-	(1,356)
	481,652	1,644,688	-	1,219,551
Current portion of long-term loans from financial institutions				
- secured	867,540	1,706,816	28,800	28,800
Less unamortised deferred financing fees	(7,797)	(34,920)	(274)	(297)
	859,743	1,671,896	28,526	28,503
Current portion of debentures				
- unsecured	907,100	2,800,000	907,100	2,800,000
Less unamortised deferred financing fees	(523)	(2,469)	(523)	(2,469)
	906,577	2,797,531	906,577	2,797,531
Current portion of lease liabilities	48,321	43,888	20,794	19,237
<b>Total current interest-bearing liabilities</b>	<b>2,296,293</b>	<b>6,158,003</b>	<b>955,897</b>	<b>4,064,822</b>

**Gunkul Engineering Public Company Limited and its Subsidiaries**  
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	<b>Consolidated</b>		<b>Separate</b>	
	<b>financial statements</b>	<b>financial statements</b>	<b>financial statements</b>	<b>financial statements</b>
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
<b>Non-current</b>				
Long-term loans from financial Institutions- secured	10,263,544	15,645,360	1,680,800	309,600
Less unamortised deferred financing fees	<u>(69,533)</u>	<u>(157,556)</u>	<u>(1,321)</u>	<u>(1,592)</u>
	10,194,011	15,487,804	1,679,479	308,008
Debentures - unsecured	2,241,600	3,148,700	2,241,600	3,148,700
Less unamortised deferred financing fees	<u>(4,044)</u>	<u>(6,440)</u>	<u>(4,044)</u>	<u>(6,440)</u>
	2,237,556	3,142,260	2,237,556	3,142,260
Lease liabilities	<u>414,215</u>	<u>522,807</u>	<u>13,480</u>	<u>25,073</u>
<b>Total non-current interest-bearing liabilities</b>	<b><u>12,845,782</u></b>	<b><u>19,152,871</u></b>	<b><u>3,930,515</u></b>	<b><u>3,475,341</u></b>
<b>Total</b>	<b><u>15,142,075</u></b>	<b><u>25,310,874</u></b>	<b><u>4,886,412</u></b>	<b><u>7,540,163</u></b>

**Guarantee**

As at 31 December 2022, The Company has pledged ordinary shares of certain subsidiaries, associate and joint ventures, together with land and buildings, machinery and equipment and deposits of the said subsidiaries, including the right of land sublease and building lease agreements, land lease agreements, Power Purchase Agreement and the right of power plant project agreement in Japan and Vietnam as collateral against the credit facilities those entities received from commercial banks in amount of Baht 19,946.28 million, U.S. Dollars 91.66 million, JPY 11,699 million and VND 216,308.98 million (31 December 2021: Baht 19,358.24 million, U.S. Dollars 91.66 million, JPY 11,699 million and VND 216,308.98 million).

**Long-term borrowings**

Details of principal features of the Group's long-term borrowings as at 31 December 2022 and 2021 were as follows:

	<b>Consolidated</b>		<b>Separate</b>	
	<b>financial statements</b>	<b>financial statements</b>	<b>financial statements</b>	<b>financial statements</b>
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
<b>Subsidiaries :</b>				
1) Baht 3,730 million and U.S. Dollars 81 million Loan Facility Agreement at interest BIBOR 3M plus a margin, payable in three-months installments commencing in February 2017	-	1,971,145	-	-
2) Baht 4,080 million Loan Facility Agreement at interest THOR CMP BS 5BD plus a margin, payable in three-months installments commencing in November 2016	2,661,177	2,906,933	-	-



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	Consolidated		Separate	
	financial statements	financial statements	financial statements	financial statements
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
13) Baht 316 million Loan Facility Agreement at interest rate BIBOR 1M plus a margin, payable in monthly installments commencing in June 2022	241,185	263,423	-	-
14) Baht 1,400 million Loan Facility Agreement at interest rate of 3.30%, payable in full amount in November 2025	1,400,000	-	1,400,000	-
15) Baht 983 million Loan Facility Agreement at interest rate BIBOR 1M plus a margin, payable in monthly installments commencing in February 2022	501,294	-	-	-
<b>Total</b>	<b><u>11,053,754</u></b>	<b><u>17,159,700</u></b>	<b><u>1,708,005</u></b>	<b><u>366,511</u></b>

**Debentures**

As at 31 December 2022, the Company has outstanding balances of issued unsecured, name registered, unsubordinated debentures. The details of issuance of debentures were as below:

Debenture issued on	30 April 2021
Unit and value	907,100 units at par value of Baht 1,000 each
Total debenture value	Baht 907.10 million
Period and maturity date	3 years will mature on 30 April 2023
Interest rate	Fixed rate of 3.7% per annum
Interest payment due	Every 3 months
Debenture issued on	30 April 2021
Unit and value	441,600 units at par value of Baht 1,000 each
Total debenture value	Baht 441.60 million
Period and maturity date	5 years will mature on 30 April 2025
Interest rate	Fixed rate of 4.2% per annum
Interest payment due	Every 3 months
Debenture issued on	22 April 2022
Unit and value	1,800,000 units at par value of Baht 1,000 each
Total debenture value	Baht 1,800 million
Period and maturity date	3 years 3 months will mature on 19 July 2024
Interest rate	Fixed rate of 4.10 % per annum
Interest payment due	Every 3 months

As at 31 December 2022, the Group had unutilised credit facilities totalling Baht 5,998.67 million and VND 38,967 million. (31 December 2021 : Baht 5,427.67 million and VND 38,967 million.).

The Group has to comply with certain conditions in accordance with those agreements including maintaining certain key financial ratios.

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**16 Provisions for employee benefits**

*Defined benefit plan*

The Group and the Company operate a defined benefit plan based on the requirement of Thai Labour Protection Act B.E 2541 (1998) to provide retirement benefits to employees based on pensionable remuneration and length of service. The defined benefit plans expose the Group to actuarial risks, such as longevity risk, interest rate risk and market (investment) risk.

<i>Present value of the defined benefit obligations</i>	<b>Consolidated financial statements</b>		<b>Separate financial statements</b>	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
At 1 January	110,151	86,539	61,055	54,463
<b>Include in profit or loss:</b>				
Current service cost	12,360	11,024	5,296	721
Interest on obligation	1,702	2,236	758	1,189
	<b>14,062</b>	<b>13,260</b>	<b>6,054</b>	<b>1,910</b>
<b>Included in other comprehensive income</b>				
Actuarial gain (loss)				
- Financial assumptions	-	520	-	544
- Experience adjustment	-	13,373	-	7,454
	<b>-</b>	<b>13,893</b>	<b>-</b>	<b>7,998</b>
Change in ownership interest in subsidiaries to joint ventures <i>(Note 10)</i>	(456)	-	-	-
Benefits paid	(2,351)	(3,541)	(2,163)	(3,316)
<b>At 31 December</b>	<b>121,406</b>	<b>110,151</b>	<b>64,946</b>	<b>61,055</b>

<i>Principal actuarial assumptions</i>	<b>Consolidated financial statements and Separate financial statements</b>	
	2022	2021
	<i>(%)</i>	
Discount rate	2.27	2.27
Future salary growth	3.0 – 7.0	3.0 – 7.0
Turnover rate	0.0 – 30.0	0.0 – 30.0

Assumptions regarding future mortality have been based on published statistics and mortality tables.

At 31 December 2022, the weighted-average duration of the defined benefit obligation was 11.8 years (2021: 12.8 years.)

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*Sensitivity analysis*

Reasonably possible changes at the reporting date to one of the relevant actuarial assumptions, holding other assumptions constant, would have affected the employee benefit obligations by the amounts shown below.

<i>Effect to the defined benefit obligation at 31 December</i>	<b>Consolidated financial statements</b>			
	1% increase in assumption		1% decrease in assumption	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
Discount rate	(8,639)	(8,175)	9,871	9,300
Future salary growth	10,573	8,947	(9,385)	(7,974)

  

<i>Effect to the defined benefit obligation at 31 December</i>	<b>Separate financial statements</b>			
	1% increase in assumption		1% decrease in assumption	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
Discount rate	(3,497)	(3,445)	3,953	3,862
Future salary growth	4,336	3,734	(3,889)	(3,358)

**17 Provisions for decommissioning costs of building and power plants**

	<b>Consolidated financial statements</b>		<b>Separate financial statements</b>	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
At 1 January	342,406	319,890	-	-
Additions	6,660	9,763	-	-
Decrease	(42,858)	-	-	-
Change in ownership interest in subsidiaries to joint ventures (Note 10)	(100,040)	-	-	-
Effect of movements in exchange rates	(11,895)	12,753	-	-
<b>At 31 December</b>	<b>194,273</b>	<b>342,406</b>	<b>-</b>	<b>-</b>

**18 Additional paid-in capital and reserves**

*Share premium*

Section 51 of the Public Companies Act B.E. 2535 requires companies to set aside share subscription monies received in excess of the par value of the shares issued to a reserve account (“share premium”). Share premium is not available for dividend distribution.



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*Legal reserve*

Section 116 of the Public Companies Act B.E. 2535 requires that a public company shall allocate not less than 5% of its annual net profit, less any accumulated losses brought forward, to a reserve account (“legal reserve”), until this account reaches an amount not less than 10% of the registered authorised capital. The legal reserve is not available for dividend distribution.

*Other components of equity*

**Translation reserve**

The translation reserves comprises all foreign currency differences arising from the translation of the financial statements of foreign operations.

**19 Segment information and disaggregation of revenue**

Management determined that the Group has four reportable segments which are the Group’s strategic divisions for products and services, and are managed separately because they require different technology and marketing strategies. For each of the strategic divisions, the chief operating decision maker (CODM) reviews internal management reports on at least a quarterly basis. The following summary describes the operations in each of the Group’s reportable segments.

- Segment 1 Manufacturing and selling of equipments for electrical systems
- Segment 2 Generating and selling electricity
- Segment 3 Construction service
- Segment 4 Maintenance service, rental service and others

Each segment’s performance is measured based on segment gross profit, as included in the internal management reports that are reviewed by the Group’s CODM. Segment gross profit is used to measure performance as management believes that such information is the most relevant in evaluating the results of certain segments relative to other entities that operate within these industries. Inter-segment pricing is determined on an arm’s length basis.

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<i>For the year ended 31 December</i>	Manufacturing and selling of equipments for electrical systems		Generating and selling electricity		Construction service		Maintenance service, rental service and others		Eliminations		Total	
	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021
	<i>(in thousand Baht)</i>											
<b>Information about reportable segments</b>												
External revenues	1,829,216	1,474,970	3,990,207	5,279,548	1,478,392	1,888,969	207,875	674,675	-	-	7,505,690	9,318,162
Inter-segment revenue	573,540	946,018	-	-	313,656	565,477	57,808	67,353	(945,004)	(1,578,848)	-	-
<b>Total revenue</b>	<b>2,402,756</b>	<b>2,420,988</b>	<b>3,990,207</b>	<b>5,279,548</b>	<b>1,792,048</b>	<b>2,454,446</b>	<b>265,683</b>	<b>742,028</b>	<b>(945,004)</b>	<b>(1,578,848)</b>	<b>7,505,690</b>	<b>9,318,162</b>
<b>Disaggregation of revenue</b>												
<b>Primary geographical markets</b>												
Thailand	2,401,013	2,418,868	2,493,211	3,739,080	1,792,048	2,454,446	265,683	742,028	(945,004)	(1,578,848)	6,006,951	7,775,574
Japan	-	-	830,914	931,850	-	-	-	-	-	-	830,914	931,850
Vietnam	-	-	666,082	608,618	-	-	-	-	-	-	666,082	608,618
Other countries	1,743	2,120	-	-	-	-	-	-	-	-	1,743	2,120
<b>Total revenue</b>	<b>2,402,756</b>	<b>2,420,988</b>	<b>3,990,207</b>	<b>5,279,548</b>	<b>1,792,048</b>	<b>2,454,446</b>	<b>265,683</b>	<b>742,028</b>	<b>(945,004)</b>	<b>(1,578,848)</b>	<b>7,505,690</b>	<b>9,318,162</b>
<b>Timing of revenue recognition</b>												
At a point in time	2,402,756	2,420,988	442,015	471,423	-	-	9,352	498,667	(573,540)	(946,018)	2,280,583	2,445,060
Over time	-	-	3,548,192	4,808,125	1,792,048	2,454,446	256,331	243,361	(371,464)	(632,830)	5,225,107	6,873,102
<b>Total revenue</b>	<b>2,402,756</b>	<b>2,420,988</b>	<b>3,990,207</b>	<b>5,279,548</b>	<b>1,792,048</b>	<b>2,454,446</b>	<b>265,683</b>	<b>742,028</b>	<b>(945,004)</b>	<b>(1,578,848)</b>	<b>7,505,690</b>	<b>9,318,162</b>
<b>Segment gross profit</b>	<b>388,128</b>	<b>285,811</b>	<b>2,017,240</b>	<b>2,965,527</b>	<b>242,152</b>	<b>385,010</b>	<b>161,054</b>	<b>168,402</b>	<b>(29,320)</b>	<b>(60,088)</b>	<b>2,779,254</b>	<b>3,744,662</b>
<b>Segment assets</b>	<b>3,036,761</b>	<b>2,157,797</b>	<b>25,182,631</b>	<b>37,140,867</b>	<b>2,367,050</b>	<b>2,257,391</b>	<b>2,133,935</b>	<b>1,780,277</b>	<b>(388,915)</b>	<b>(850,978)</b>	<b>32,331,462</b>	<b>42,485,354</b>

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(a) *Reconciliation of reportable segment profit or loss*

	<b>Consolidated financial statements</b>	
	2022	2021
	<i>(in thousand Baht)</i>	
<b>Profit or loss</b>		
Total gross profit for reportable segments	2,779,254	3,744,662
Unallocated amounts		
- Other corporate expenses	(1,923,530)	(1,900,540)
- Gain on change in ownership interest in subsidiaries to joint ventures	1,330,723	-
- Gain on change in fair value of derivatives	618,030	377,397
- Share of profit of associates and joint ventures accounted for using equity method	510,642	217,837
<b>Profit before income tax</b>	<b><u>3,315,119</u></b>	<b><u>2,439,356</u></b>

(b) *Geographical segments*

In presenting information on the basis of geographical segments, segment revenue is based on the geographical location of customers. Segment assets are based on the geographical location of the assets.

<i>Geographical information</i>	<b>Consolidated financial statements</b>			
	<b>Revenues</b>		<b>Assets</b>	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
Thailand	6,006,951	7,775,574	15,163,110	28,081,080
Japan	830,914	931,850	7,341,324	7,208,371
Vietnam	666,082	608,618	4,283,647	5,263,358
Other countries	1,743	2,120	1,674	99,860
Investments in associates and joint ventures	-	-	5,541,707	1,832,685
<b>Total</b>	<b><u>7,505,690</u></b>	<b><u>9,318,162</u></b>	<b><u>32,331,462</u></b>	<b><u>42,485,354</u></b>

(c) *Major customer*

Revenue from three customers of the Group's manufacturing and selling of equipments for electrical systems, generating and selling electricity and domestic construction service segments represent approximately Baht 3,297.94 million of the Group's total revenues (2021: three customers, amount Baht 4,510.80 million).

The Group recognises revenue in an amount that corresponds directly with the value to the customer of the date on which the performance obligations are satisfied.



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**21 Finance costs**

	<i>Note</i>	<b>Consolidated financial statements</b>		<b>Separate financial statements</b>	
		2022	2021	2022	2021
		<i>(in thousand Baht)</i>			
<b>Interest expense</b>					
Related parties	4	-	-	5,526	2,588
Loans and overdrafts		623,950	655,612	53,846	72,843
<b>Total</b>		<b>623,950</b>	<b>655,612</b>	<b>59,372</b>	<b>75,431</b>
Debenture		192,140	252,537	192,140	252,538
Amortisation of financing fees		22,685	31,175	8,725	11,274
Others		31,485	32,356	881	1,599
<b>Total</b>		<b>246,310</b>	<b>316,068</b>	<b>201,746</b>	<b>265,411</b>
<i>Less</i> amounts included in the cost of qualifying assets:					
- Property, plant and equipment under construction		(5,639)	(1,154)	-	-
		<b>(5,639)</b>	<b>(1,154)</b>	<b>-</b>	<b>-</b>
<b>Net</b>		<b>864,621</b>	<b>970,526</b>	<b>261,118</b>	<b>340,842</b>

**22 Income tax**

<i>Income tax recognised in profit or loss</i>	<b>Consolidated financial statements</b>		<b>Separate financial statements</b>	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
<b>Current tax expense</b>				
Current year	274,258	155,873	67,105	-
<b>Deferred tax expense</b>				
Movements in temporary differences	26,483	31,965	(356)	12,458
<b>Total income tax expense</b>	<b>300,741</b>	<b>187,838</b>	<b>66,749</b>	<b>12,458</b>

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<i>Reconciliation of effective tax rate</i>	<b>Consolidated financial statements</b>			
		2022		2021
	<i>Rate (%)</i>	<i>(in thousand Baht)</i>	<i>Rate (%)</i>	<i>(in thousand Baht)</i>
Profit before income tax expense		3,315,119		2,439,356
Income tax using the Thai corporation tax rate	20.0	663,023	20.0	487,871
Income not subject to tax		(517,181)		(248,883)
Expenses not deductible for tax purposes		193,446		34,856
Addition deductible expense for tax purpose		(2,947)		(5,911)
Recognition of previously unrecognised tax losses		(113,611)		(221,741)
Current year losses for which no deferred tax asset was recognised		35,884		123,560
Effect of different tax rates in each entity and others		42,127		18,086
<b>Total</b>	<b>9.07</b>	<b>300,741</b>	<b>7.70</b>	<b>187,838</b>

<i>Reconciliation of effective tax rate</i>	<b>Separate financial statements</b>			
		2022		2021
	<i>Rate (%)</i>	<i>(in thousand Baht)</i>	<i>Rate (%)</i>	<i>(in thousand Baht)</i>
Profit before income tax expense		1,308,596		2,199,866
Income tax using the Thai corporation tax rate	20.0	261,719	20.0	439,973
Income not subject to tax		(274,774)		(320,056)
Expenses not deductible for tax purposes		192,961		989
Addition deductible expense for tax purpose		(200)		(168)
Recognition of previously unrecognised tax losses		(112,957)		(220,181)
Current year losses for which no deferred tax asset was recognised		-		111,901
<b>Total</b>	<b>5.10</b>	<b>66,749</b>	<b>0.57</b>	<b>12,458</b>

<i>Deferred tax assets and liabilities</i>	<b>Consolidated financial statements</b>				
		<b>Assets</b>		<b>Liabilities</b>	
	2022	2021	2022	2021	
		<i>(in thousand Baht)</i>			
Total	86,879	125,677	(168,123)	(328,904)	
Set off of tax	(31,676)	(72,316)	31,676	72,316	
<b>Net deferred tax assets (liabilities)</b>	<b>55,203</b>	<b>53,361</b>	<b>(136,447)</b>	<b>(256,588)</b>	

<i>Deferred tax assets and liabilities</i>	<b>Separate financial statements</b>				
		<b>Assets</b>		<b>Liabilities</b>	
	2022	2021	2022	2021	
		<i>(in thousand Baht)</i>			
Total	28,185	27,047	(782)	-	
Set off of tax	(782)	-	782	-	
<b>Net deferred tax assets</b>	<b>27,403</b>	<b>27,047</b>	<b>-</b>	<b>-</b>	

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	<b>Consolidated financial statements</b>					<b>At 31 December</b>
	<b>At 1 January</b>	<b>(Charged) / credited to</b>			<b>Effect of movements in exchange rates</b>	
	Profit or loss	Other comprehensive income	Change in ownership interest in subsidiaries to joint ventures (Note 10)			
			<i>(in thousand Baht)</i>			
<b>2022</b>						
<b>Deferred tax assets</b>						
Trade account receivable and other receivables	1,136	(1,025)	-	-	-	111
Inventories	9,416	(65)	-	-	-	9,351
Provisions	15,125	4,006	-	(5,463)	(42)	13,626
Provisions for employee benefit	21,897	2,353	-	(102)	-	24,148
Profit in inventories	4,733	352	-	-	-	5,085
Profit in property, plant and equipment	22,476	-	-	(19,142)	-	3,334
Profit in intangible assets	23,334	-	-	(23,109)	-	225
Property, plant and equipment	27,479	104	-	-	-	27,583
Lease liabilities	17	36	-	-	-	53
Prepaid expense	-	3,376	-	-	(77)	3,299
Loss carry forward	64	-	-	-	-	64
<b>Total</b>	<b>125,677</b>	<b>9,137</b>	<b>-</b>	<b>(47,816)</b>	<b>(119)</b>	<b>86,879</b>
<b>Deferred tax liabilities</b>						
Finance lease receivables	(28)	6	-	-	-	(22)
Derivatives	(1,327)	(25,412)	-	2,516	291	(23,932)
Property, plant and equipment	(23,576)	(9,268)	-	-	2	(32,842)
Right to power purchase agreement and right to operate (See note 14)	(303,072)	-	-	193,564	26	(109,482)
Lease liabilities	(887)	(897)	-	-	2	(1,782)
Others	(14)	(49)	-	-	-	(63)
<b>Total</b>	<b>(328,904)</b>	<b>(35,620)</b>	<b>-</b>	<b>196,080</b>	<b>321</b>	<b>(168,123)</b>
<b>Net</b>	<b>(203,227)</b>	<b>(26,483)</b>	<b>-</b>	<b>148,264</b>	<b>202</b>	<b>(81,244)</b>

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	<b>Consolidated financial statements</b>					<b>At 31 December</b>
	<b>At 1 January</b>	Profit or loss	Other comprehensive income <i>(in thousand Baht)</i>	Equity	Effect of movements in exchange rates	
<b>2021</b>						
<b>Deferred tax assets</b>						
Trade account receivable and other receivables	2,256	(1,120)	-	-	-	1,136
Derivatives	22,818	(22,818)	-	-	-	-
Inventories	9,371	45	-	-	-	9,416
Provisions	10,073	4,824	-	-	228	15,125
Provisions for employee benefit	17,219	1,989	(2,779)	(90)	-	21,897
Profit in inventories	6,149	(1,416)	-	-	-	4,733
Profit in property, plant and equipment	22,476	-	-	-	-	22,476
Profit in intangible assets	23,334	-	-	-	-	23,334
Property, plant and equipment	27,479	-	-	-	-	27,479
Leases liabilities	11	-	-	-	-	17
Loss carry forward	64	6	-	-	-	64
<b>Total</b>	<b>141,250</b>	<b>(18,490)</b>	<b>(2,779)</b>	<b>(90)</b>	<b>228</b>	<b>125,677</b>
<b>Deferred tax liabilities</b>						
Finance lease receivables	-	(28)	-	-	-	(28)
Derivatives	-	(1,327)	-	-	-	(1,327)
Property, plant and equipment	(11,123)	(12,543)	-	90	-	(23,576)
Right to power purchase agreement and right to operate <i>(See note 14)</i>	(298,674)	-	-	-	(4,398)	(303,072)
Leases liabilities	(1,275)	388	-	-	-	(887)
Others	(49)	35	-	-	-	(14)
<b>Total</b>	<b>(311,121)</b>	<b>(13,475)</b>	<b>-</b>	<b>90</b>	<b>(4,398)</b>	<b>(328,904)</b>
<b>Net</b>	<b>(169,871)</b>	<b>(31,965)</b>	<b>2,779</b>	<b>-</b>	<b>(4,170)</b>	<b>(203,227)</b>



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	At 1 January	Separate financial statements (Charged)/ credited to:		At 31 December
		Profit or loss	Other comprehensive income	
<i>(in thousand Baht)</i>				
<b>Deferred tax</b>				
<b>2022</b>				
<b>Deferred tax assets</b>				
Trade account receivable and other receivables	210	(76)	-	134
Inventories	4,250	-	-	4,250
Provisions	281	(163)	-	118
Provisions for employee benefit	12,211	778	-	12,989
Derivative	10,084	610	-	10,694
Lease liabilities	11	(11)	-	-
<b>Total</b>	<b>27,047</b>	<b>1,138</b>	<b>-</b>	<b>28,185</b>
<b>Deferred tax liabilities</b>				
Lease liabilities	-	(782)	-	(782)
<b>Total</b>	<b>-</b>	<b>(782)</b>	<b>-</b>	<b>(782)</b>
<b>Net</b>	<b>27,047</b>	<b>356</b>	<b>-</b>	<b>27,403</b>
<b>2021</b>				
<b>Deferred tax assets</b>				
Trade account receivable and other receivables	1,330	(1,120)	-	210
Inventories	4,250	-	-	4,250
Provisions	315	(34)	-	281
Provisions for employee benefit	10,893	(281)	1,599	12,211
Derivative	21,543	(11,459)	-	10,084
Loss carry forward	-	11	-	11
<b>Total</b>	<b>38,331</b>	<b>(12,883)</b>	<b>1,599</b>	<b>27,047</b>
<b>Deferred tax liabilities</b>				
Leases liabilities	(425)	425	-	-
<b>Total</b>	<b>(425)</b>	<b>425</b>	<b>-</b>	<b>-</b>
<b>Net</b>	<b>37,906</b>	<b>(12,458)</b>	<b>1,599</b>	<b>27,047</b>
<b>Unrecognised deferred tax assets</b>				
	<b>Consolidated financial statements</b>		<b>Separate financial statements</b>	
	2022	2021	2022	2021
<i>(in thousand Baht)</i>				
Loss carry forward	39,430	122,953	-	110,269
<b>Total</b>	<b>39,430</b>	<b>122,953</b>	<b>-</b>	<b>110,269</b>

The tax losses expire in 2027. The Group has not recognised these items as deferred tax assets because it is not probable that the Group will have sufficient future taxable profit to utilise the benefits therefrom.

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**23 Earnings per share**

The calculations of basic earnings per share for the year ended 31 December 2022 and 2021 were based on the profit for the year attributable to ordinary shareholders of the Company and the weighted average number of ordinary shares outstanding during the year after adjusting the number of treasury shares as follows:

	Consolidated financial statements		Separate financial statements	
	2022	2021	2022	2021
	<i>(in thousand Baht/ thousand shares)</i>			
<b><i>Profit attributable to ordinary shareholders for the year ended 31 December</i></b>	<b>3,010,519</b>	<b>2,229,270</b>	<b>1,241,847</b>	<b>2,187,407</b>
Number of ordinary shares outstanding as at 1 January				
- ordinary shares of Baht 0.25 each	8,882,531	8,882,531	8,882,531	8,882,531
Effect of treasury shares	-	(46,451)	-	(46,451)
<b>Weighted average number of ordinary shares outstanding at 31 December</b>	<b>8,882,531</b>	<b>8,836,080</b>	<b>8,882,531</b>	<b>8,836,080</b>
<b>Earnings per share (basic) (in Baht)</b>	<b>0.34</b>	<b>0.25</b>	<b>0.14</b>	<b>0.25</b>

**24 Dividend**

	Approval date	Payment schedule	Dividend rate per share (Baht)	Amount (in thousand Baht)	Legal reserve
<b>2022</b>					
Annual dividend 2021	27 April 2022	May 2022	0.120	1,065,901	-
Interim dividend	10 November 2022	December 2022	0.06	532,949	-
				<b>1,598,850</b>	<b>-</b>
<b>2021</b>					
Annual dividend 2020	28 April 2021	May 2021	0.182	1,598,566	-
Interim dividend	11 August 2021	September 2021	0.06	532,946	-
				<b>2,131,512</b>	<b>-</b>

**25 Financial instruments**

**(a) Carrying amounts and fair values**

The following table shows the carrying amounts and fair values of financial assets and financial liabilities, including their levels in the fair value hierarchy for financial instruments measured at fair value. It does not include fair value information for financial assets and financial liabilities not measured at fair value if the carrying amount is a reasonable approximation of fair value.

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	Consolidated financial statements					Fair value			
	Fair value – applied hedge accounting	Fair value through profit or loss	Carrying amount Fair value through other comprehensive income	Amortised cost - net <i>(in thousand Baht)</i>	Total	Level 1	Level 2	Level 3	Total
<i>At 31 December 2022</i>									
<b>Financial assets</b>									
Other current financial assets	-	301,246	-	-	301,246	-	301,246	-	301,246
Interest rate swap contracts	-	370,807	-	-	370,807	-	370,807	-	370,807
<b>Total financial assets</b>	<b>-</b>	<b>672,053</b>	<b>-</b>	<b>-</b>	<b>672,053</b>				
<b>Financial liabilities</b>									
Loans from financial institutions	-	-	-	1,525,517	1,525,517	-	1,508,300	-	1,508,300
Debentures	-	-	-	3,144,133	3,144,133	-	3,127,470	-	3,127,470
Interest rate swap contracts	-	7,606	-	-	7,606	-	7,606	-	7,606
Cross currency and interest rate swap contracts	-	53,473	-	-	53,473	-	53,473	-	53,473
<b>Total financial liabilities</b>	<b>-</b>	<b>61,079</b>	<b>-</b>	<b>4,669,650</b>	<b>4,730,729</b>				
<i>At 31 December 2021</i>									
<b>Financial assets</b>									
Other current financial assets	-	19,198	-	-	19,198	-	19,198	-	19,198
Forward exchange contracts	-	1,692	-	-	1,692	-	1,692	-	1,692
Interest rate swap contracts	-	53,520	-	-	53,520	-	53,520	-	53,520
<b>Total financial assets</b>	<b>-</b>	<b>74,410</b>	<b>-</b>	<b>-</b>	<b>74,410</b>				
<b>Financial liabilities</b>									
Loans from financial institutions	-	-	-	138,670	138,670	-	134,081	-	134,081
Debentures	-	-	-	5,939,791	5,939,791	-	5,975,966	-	5,975,966
Interest rate swap contracts	-	207,467	-	-	207,467	-	207,467	-	207,467
Cross currency and interest rate swap contracts	-	56,789	-	-	56,789	-	56,789	-	56,789
<b>Total financial liabilities</b>	<b>-</b>	<b>264,256</b>	<b>-</b>	<b>6,078,461</b>	<b>6,342,717</b>				

**Gunkul Engineering Public Company Limited and its Subsidiaries**  
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	Carrying amount			Separate financial statements		Fair value			
	Fair value – applied hedge accounting	Fair value through profit or loss	Fair value through other comprehensive income	Amortised cost - net <i>(in thousand Baht)</i>	Total	Level 1	Level 2	Level 3	Total
<b>At 31 December 2022</b>									
<b>Financial assets</b>									
Forward exchange contracts	-	200,020	-	-	200,020	-	200,020	-	200,020
<b>Total financial assets</b>	<b>-</b>	<b>200,020</b>	<b>-</b>	<b>-</b>	<b>200,020</b>				
<b>Financial liabilities</b>									
Loans from financial institutions	-	-	-	1,400,000	1,400,000	-	1,389,204	-	1,389,204
Debentures	-	-	-	3,144,133	3,144,133	-	3,127,470	-	3,127,470
Cross currency and interest rate swap contracts	-	53,473	-	-	53,473	-	53,473	-	53,473
<b>Total financial liabilities</b>	<b>-</b>	<b>53,473</b>	<b>-</b>	<b>4,544,133</b>	<b>4,597,606</b>				
<b>At 31 December 2021</b>									
<b>Financial assets</b>									
Forward exchange contracts	-	622	-	-	622	-	622	-	622
<b>Total financial assets</b>	<b>-</b>	<b>622</b>	<b>-</b>	<b>-</b>	<b>622</b>				
<b>Financial liabilities</b>									
Debentures	-	-	-	5,939,791	5,939,791	-	5,975,966	-	5,975,966
Cross currency and interest rate swap contracts	-	56,789	-	-	56,789	-	56,789	-	56,789
<b>Total financial liabilities</b>	<b>-</b>	<b>56,789</b>	<b>-</b>	<b>5,939,791</b>	<b>5,996,580</b>				

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*Financial instruments measured at fair value*

Type	Valuation technique
Investments in marketable unit trusts classified as financial assets measured at FVTPL or FVOCI	The net asset value as of the reporting date.
Interest rate swaps contracts	<i>Swap models:</i> The present value of estimated future cash flows, using an observable yield curve.
Forward exchange contracts	<i>Forward pricing:</i> The fair value is determined using quoted forward exchange rates at the reporting date and present value calculations based on high credit quality yield curves in the respective currencies.
Cross currency and interest rate swap contracts	Derived by using a valuation technique incorporating observable market data.

*Financial instruments not measured at fair value*

Type	Valuation technique
Long-term loans	Discounted cash flow
Debentures	Bid prices from the Thai Bond Market Association as of the reporting date. If not available, the Government Bond Yield Curve from the Thai Bond Market Association for the same period is used, adjusted by an appropriate risk premium.

(b) *Movement of marketable debt securities*

<i>Marketable debt securities</i>	<b>Consolidated financial statements</b>				At 31 December
	At 1 January	Purchase	Disposal <i>(in thousand Baht)</i>	Fair Value adjustment	
<b>2022</b>					
<i>Other current financial assets</i>					
Investments in marketable unit trusts	19,198	2,026,800	(1,745,000)	248	301,246
<b>Total</b>	<b>19,198</b>	<b>2,026,800</b>	<b>(1,745,000)</b>	<b>248</b>	<b>301,246</b>
<b>2021</b>					
<i>Other current financial assets</i>					
Investments in marketable unit trusts	162,315	2,434,500	(2,577,472)	(145)	19,198
<b>Total</b>	<b>162,315</b>	<b>2,434,500</b>	<b>(2,577,472)</b>	<b>(145)</b>	<b>19,198</b>

**Gunkul Engineering Public Company Limited and its Subsidiaries**  
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<i>Marketable debt securities</i>	<b>Separate financial statements</b>				At 31 December
	At 1 January	Purchase	Disposal (in thousand Baht)	Fair Value adjustment	
<b>2022</b>					
<b>Other current financial assets</b>					
Investments in marketable unit trusts	-	1,850,000	(1,650,000)	20	200,020
<b>Total</b>	<b>-</b>	<b>1,850,000</b>	<b>(1,650,000)</b>	<b>20</b>	<b>200,020</b>
<b>2021</b>					
<b>Other current financial assets</b>					
Investments in marketable unit trusts	82,000	2,259,500	(2,341,500)	-	-
<b>Total</b>	<b>82,000</b>	<b>2,259,500</b>	<b>(2,341,500)</b>	<b>-</b>	<b>-</b>

(c) **Financial risk management policies**

**Risk management framework**

The Group's board of directors has overall responsibility for the establishment and oversight of the Group's risk management framework. The board of directors has established the risk management committee, which is responsible for developing and monitoring the Group's risk management policies. The committee reports regularly to the board of directors on its activities.

The Group's risk management policies are established to identify and analyse the risks faced by the Group, to set appropriate risk limits and controls and to monitor risks and adherence to limits. Risk management policies and systems are reviewed regularly to reflect changes in market conditions and the Group's activities. The Group, through its training and management standards and procedures, aims to maintain a disciplined and constructive control environment in which all employees understand their roles and obligations.

The Group audit committee oversees how management monitors compliance with the Group's risk management policies and procedures, and reviews the adequacy of the risk management framework in relation to the risks faced by the Group. The Group audit committee is assisted in its oversight role by internal audit. Internal audit undertakes both regular and ad hoc reviews of risk management controls and procedures, the results of which are reported to the audit committee.

(c.1) **Credit risk**

Credit risk is the risk of financial loss to the Group if a customer or counterparty to a financial instrument fails to meet its contractual obligations, and arises principally from the Group's receivables from customers.

(c.1.1) Trade accounts receivables and unbilled receivables

The Group's exposure to credit risk is influenced mainly by the individual characteristics of each customer. However, management also considers the factors that may influence the credit risk of its customer base, including the default risk associated with the industry and country in which customers operate. Detail of concentration of revenue are included in note 21(b) and 21(c).

**Gunkul Engineering Public Company Limited and its Subsidiaries**  
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The risk management committee has established a credit policy under which each new customer is analysed individually for creditworthiness before the Group's commercial terms and conditions are offered. The Group's review includes external ratings, if they are available, financial statements, credit agency information, industry information and in some cases bank references. Sale limits are established for each customer and reviewed regularly. Any sales exceeding those limits require approval from the management.

The Group limits its exposure to credit risk from trade accounts receivables by establishing a maximum payment period. Outstanding trade receivables are regularly monitored by the Group. An impairment analysis is performed by the Group at each reporting date. The provision rates of expected credit loss are based on days past due for individual trade receivables or groupings of various customer segments with similar credit risks to reflect differences between economic conditions in the past, current conditions and the Group's view of economic conditions over the expected lives of the receivables.

The Group has concentrations of credit risk since most of its revenues are contracted under long-term agreements with a small number of parties. However, counterparties are generally government authorities and large public or private corporations, and the risk perceived is low.

(c.1.2) Cash and cash equivalent and derivatives

The Group's exposure to credit risk arising from cash and cash equivalents and derivative assets is limited because the counterparties are banks and financial institutions which the Group considers to have low credit risk.

(c.2) *Liquidity risk*

The Group monitors its liquidity risk and maintains a level of cash and cash equivalents deemed adequate by management to finance the Group's operations and to mitigate the effects of fluctuations in cash flows.

The following table are the remaining contractual maturities of financial liabilities at the reporting date. The amounts are gross and undiscounted and include contractual interest payments and exclude the impact of netting agreements.

**Gunkul Engineering Public Company Limited and its Subsidiaries**  
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<i>At 31 December 2022</i>	Carrying amount	At call	Contractual cash flows			Total
			Within 1 year <i>(in thousand Baht)</i>	1 - 5 years	More than 5 years	
<b>Consolidated financial statements</b>						
<b>Non-derivative financial liabilities</b>						
Short-term loans from financial institutions	481,652	150,000	331,652	-	-	481,652
Trade and other current payables	1,692,725	-	1,687,391	5,334	-	1,692,725
Payable for purchases of assets	35,602	-	35,602	-	-	35,602
Payables for share subscription	80,233	-	80,233	-	-	80,233
Retention payables	106,332	-	69,717	36,351	264	106,332
Loans from financial institutions	11,053,754	-	1,281,492	6,223,714	6,203,116	13,708,322
Debentures	3,144,133	-	1,010,482	2,306,936	-	3,317,418
Lease liabilities	462,537	-	65,841	156,540	507,821	730,202
Other non-current financial liabilities	618	-	-	-	618	618
	<b><u>17,057,586</u></b>	<b><u>150,000</u></b>	<b><u>4,562,410</u></b>	<b><u>8,728,875</u></b>	<b><u>6,711,819</u></b>	<b><u>20,153,104</u></b>
<b>Derivative financial liabilities</b>						
Cross currency and interest rate swap contracts						
- Cash outflow	(53,473)	-	(127,045)	(539,745)	-	(666,790)
- Cash inflow	-	-	119,505	491,522	-	611,027
	<b><u>(53,473)</u></b>	<b><u>-</u></b>	<b><u>(7,540)</u></b>	<b><u>(48,223)</u></b>	<b><u>-</u></b>	<b><u>(55,763)</u></b>
<b>Derivative financial assets</b>						
Interest rate swap contracts						
- Cash outflow	-	-	(291,795)	(1,065,021)	(1,415,728)	(2,772,544)
- Cash inflow	370,807	-	352,153	1,257,567	1,597,438	3,207,158
	<b><u>370,807</u></b>	<b><u>-</u></b>	<b><u>60,358</u></b>	<b><u>192,546</u></b>	<b><u>181,710</u></b>	<b><u>434,614</u></b>



**Gunkul Engineering Public Company Limited and its Subsidiaries**  
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<i>At 31 December 2021</i>	Carrying amount	At call	Contractual cash flows			Total
			Within 1 year <i>(in thousand Baht)</i>	1 – 5 years	More than 5 years	
<b>Consolidated financial statements</b>						
<b>Non-derivative financial liabilities</b>						
Short-term loans from financial institutions	1,644,688	394,100	1,251,944	-	-	1,646,044
Trade and other current payables	1,681,236	-	1,681,236	-	-	1,681,236
Payable for purchases of assets	50,920	-	50,920	-	-	50,920
Payables for share subscription	142,024	-	142,024	-	-	142,024
Retention payables	361,693	-	343,873	17,820	-	361,693
Loans from financial institutions	17,159,700	-	2,118,856	9,165,524	8,381,446	19,665,826
Debentures	5,939,791	-	2,989,773	3,317,418	-	6,307,191
Lease liabilities	566,695	-	66,849	188,442	660,582	915,873
Other non-current financial liabilities	618	-	-	-	618	618
	<u>27,547,365</u>	<u>394,100</u>	<u>8,645,475</u>	<u>12,689,204</u>	<u>9,042,646</u>	<u>30,771,425</u>
<b>Derivative financial liabilities</b>						
Cross currency and interest rate swap contracts						
- Cash outflow	(56,789)	-	(124,507)	(523,841)	(142,949)	(791,297)
- Cash inflow	-	-	113,855	485,625	133,463	732,943
Interest rate swap contracts						
- Cash outflow	(207,467)	-	(470,573)	(1,378,183)	(1,096,084)	(2,944,840)
- Cash inflow	-	-	325,663	1,290,765	1,179,069	2,795,497
	<u>(264,256)</u>	<u>-</u>	<u>(155,562)</u>	<u>(125,634)</u>	<u>73,499</u>	<u>(207,697)</u>

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<i>At 31 December 2022</i>	Carrying amount	At call	Separate financial statements			Total
			Contractual cash flows		More than 5 years	
			Within 1 year <i>(in thousand Baht)</i>	1 – 5 years		
<b><i>Non-derivative financial liabilities</i></b>						
Short-term loan from related parties	1,266,700	1,266,700	-	-	-	1,266,700
Trade and other current payables	174,943	-	174,943	-	-	174,943
Payables for share subscription	175	-	175	-	-	175
Retention payables	3,491	-	3,325	166	-	3,491
Loans from financial institutions	1,708,005	-	39,024	1,546,185	182,229	1,767,438
Debentures	3,144,133	-	1,010,482	2,306,936	-	3,317,418
Lease liabilities	34,274	-	21,693	14,206	-	35,899
Other non-current financial liabilities	618	-	-	-	618	618
	<b><u>6,332,339</u></b>	<b><u>1,266,700</u></b>	<b><u>1,249,642</u></b>	<b><u>3,867,493</u></b>	<b><u>182,847</u></b>	<b><u>6,566,682</u></b>
<b><i>Derivative financial liabilities</i></b>						
Cross currency and interest rate swap contracts						
- Cash outflow	(53,473)	-	(127,045)	(539,745)	-	(666,790)
- Cash inflow	-	-	119,505	491,522	-	611,027
	<b><u>(53,473)</u></b>	<b><u>-</u></b>	<b><u>(7,540)</u></b>	<b><u>(48,223)</u></b>	<b><u>-</u></b>	<b><u>(55,763)</u></b>
<b><i>At 31 December 2021</i></b>						
<b><i>Non-derivative financial liabilities</i></b>						
Short-term loan from related parties	1,219,551	294,100	926,807	-	-	1,220,907
Short-term loan from related parties	95,000	95,000	-	-	-	95,000
Trade and other current payables	381,431	-	381,431	-	-	381,431
Retention payables	2,726	-	2,122	604	-	2,726
Loans from financial institutions	336,511	-	38,392	145,093	213,962	397,447
Debentures	5,939,791	-	2,989,773	3,317,418	-	6,307,191
Lease liabilities	44,310	-	20,531	25,912	-	46,443
Other non-current financial liabilities	618	-	-	-	618	618
	<b><u>8,019,938</u></b>	<b><u>389,100</u></b>	<b><u>4,359,056</u></b>	<b><u>3,489,027</u></b>	<b><u>214,580</u></b>	<b><u>8,451,763</u></b>
<b><i>Derivative financial liabilities</i></b>						
Cross currency and interest rate swap contracts						
- Cash outflow	(56,789)	-	(124,507)	(523,841)	(142,949)	(791,297)
- Cash inflow	-	-	113,855	485,625	133,463	732,943
	<b><u>(56,789)</u></b>	<b><u>-</u></b>	<b><u>(10,652)</u></b>	<b><u>(38,216)</u></b>	<b><u>(9,486)</u></b>	<b><u>(58,354)</u></b>

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The cash outflows disclosed in the above table represent the contractual undiscounted cash flows relating to derivative financial liabilities held for risk management purposes and which are not usually closed out before contractual maturity. The disclosure shows net cash flow amounts for derivatives that are net cash-settled and gross cash inflow and outflow amounts for derivatives that have simultaneous gross cash settlement.

**(c.3) Market risk**

*Managing interest rate benchmark reform (IBOR reform)*

The Group monitors the progress of transition from IBOR to new benchmark rate by reviewing the total amounts of contracts that have yet to transition to an alternative benchmark rate which the Group is currently considering amend the contract. As at 31 December 2022, total amounts of financial instruments that have yet to transition to an alternative benchmark rates is JPY 6,800.21 million and U.S. Dollars 69.01 million.

*(c.3.1) Foreign currency risk*

The Group is exposed to foreign currency risk relating to purchases material, purchases of asset, costs of operation and maintenance and have long-term loan which are denominated in foreign currencies. However, the Group entered into cross currency and interest rate swap contracts to mitigate the exposure of foreign exchange rate. At 31 December, the Group and the Company were exposed to foreign currency risk in respect of financial assets and liabilities denominated in the following currencies:

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	<b>Consolidated financial statements</b>					
	31 December 2022			31 December 2021		
<i>Exposure to foreign currency</i>	United States Dollars	Euro	Total <i>(in thousand Baht)</i>	United States Dollars	Euro	Total
Cash and cash equivalents	105,707	265	105,972	111,048	273	111,321
Trade and other current receivables	699	-	699	42,442	-	42,442
Deposits from financial institution pledged as collateral	-	-	-	153,148	-	153,148
Interest-bearing liabilities	(264,418)	-	(264,418)	(147,335)	-	(147,335)
Trade and other current payables	(58,219)	(82)	(58,301)	(246,958)	(53,973)	(300,931)
Payable for purchases of assets	(2,829)	-	(2,829)	(11,228)	-	(11,228)
Retention payables	-	-	-	(154,528)	-	(154,528)
<b>Net statement of financial position exposure</b>	<b>(219,060)</b>	<b>183</b>	<b>(218,877)</b>	<b>(253,411)</b>	<b>(53,700)</b>	<b>(307,111)</b>
Estimated payable for operation and maintenance service fee of power plants	-	-	-	(576,559)	(236,934)	(813,493)
Estimated trade payables	(206,734)	-	(206,734)	(114,588)	-	(114,588)
<b>Gross exposure</b>	<b>(425,794)</b>	<b>183</b>	<b>(425,611)</b>	<b>(944,558)</b>	<b>(290,634)</b>	<b>(1,235,192)</b>
Cross currency and interest rate swap contracts	655,209	-	655,209	774,973	-	774,973
Forward exchange contracts	299,495	-	299,495	114,588	-	114,588
<b>Net exposure</b>	<b>528,910</b>	<b>183</b>	<b>529,093</b>	<b>(54,997)</b>	<b>(290,634)</b>	<b>(345,631)</b>

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	<b>Separate financial statements</b>						
	31 December 2022			31 December 2021			
	United States Dollars	Euro	Total	United States Dollars	Japanese Yen	Euro	Total
<i>Exposure to foreign currency</i>				<i>(in thousand Baht)</i>			
Cash and cash equivalents	98,778	262	99,040	103,229	-	270	103,499
Trade and other current receivables	699	-	699	1,365	-	-	1,365
Short-term loans to related parties	-	-	-	-	37,626	-	37,626
Interest-bearing liabilities	-	-	-	(6,807)	-	-	(6,807)
Trade accounts payable	(1,841)	-	(1,841)	(131,112)	-	(17)	(131,129)
<b>Net statement of financial position exposure</b>	<b>97,636</b>	<b>262</b>	<b>97,898</b>	<b>(33,325)</b>	<b>37,626</b>	<b>253</b>	<b>4,554</b>
Estimated trade payables	-	-	-	(60,728)	-	-	(60,728)
<b>Gross exposure</b>	<b>97,636</b>	<b>262</b>	<b>97,898</b>	<b>(94,053)</b>	<b>37,626</b>	<b>253</b>	<b>(56,174)</b>
Cross currency and interest rate swap contracts	655,209	-	655,209	774,973	-	-	774,973
Forward exchange contracts	-	-	-	60,728	-	-	60,728
<b>Net exposure</b>	<b>752,845</b>	<b>262</b>	<b>753,107</b>	<b>741,648</b>	<b>37,626</b>	<b>253</b>	<b>779,527</b>

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*Cross currency and interest rate swap contracts*

The Group is exposed to foreign currency risk relating to purchases goods, purchases assets and long-term loans which are denominated in foreign currencies. However, the Group entered into cross-currency and interest rate swap contracts for migrates effect of exchange rate.

As at 31 December 2022, the Group has outstanding cross currency and interest rate swap contracts as follow:

<b>Currency and Interest Receive Rate Swap agreements</b>	<b>Currency and Interest Pay Rate Swap agreements</b>	<b>Termination date</b>
U.S. dollars 7.45 million at the rate 0.00%	Baht 260.82 million at the rate 0.65%	24 February 2027
U.S. dollars 11.27 million at the rate 0.00%	Baht 394.38 million at the rate 0.65%	15 November 2027

*Sensitivity analysis*

A reasonably possible strengthening (weakening) of Thai Baht against all other foreign currencies at the reporting date would have affected the measurement of financial instruments denominated in a foreign currency. This analysis assumes that all other variables, in particular interest rates, remain constant.

<b>Impact to profit or loss</b>	<b>Movement</b>	<b>Consolidated financial statements</b>		<b>Separate financial statements</b>	
		<b>Strengthening</b>	<b>Weakening</b>	<b>Strengthening</b>	<b>Weakening</b>
	(%)		(in thousand Baht)		
<b>At 31 December 2022</b>					
United States Dollars	1.00	2,191	(2,191)	(976)	976
Euro	1.00	(2)	2	(3)	3
<b>At 31 December 2021</b>					
United States Dollars	1.00	2,534	(2,534)	333	(333)
Euro	1.00	537	(537)	(3)	3
Japanese Yen	1.00	-	-	(376)	376

(c.3.2) *Interest rate risk*

Interest rate risk is the risk that future movements in market interest rates will affect the results of the Group's operations and its cash flows because loan interest rates are mainly floated. The Group is primarily exposed to interest rate risk from its borrowings (see note 15). The Group mitigates this risk by ensuring that the majority of its borrowings are at fixed interest rates and uses derivatives, principally interest rate swaps, to manage exposure to fluctuations in interest rates on specific debt securities and borrowings.

<b>Exposure to interest rate risk at 31 December</b>	<b>Consolidated financial statements</b>		<b>Separate financial statements</b>	
	<b>2022</b>	<b>2021</b>	<b>2022</b>	<b>2021</b>
		(in thousand Baht)		
Loans from financial institutions	11,131,084	17,352,175	1,709,600	367,200
Interest rate swap contracts	(8,103,195)	(14,894,789)	-	-
<b>Net</b>	<b>3,027,889</b>	<b>2,457,386</b>	<b>1,709,600</b>	<b>367,200</b>

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***Interest Rate Swap Agreements***

As at 31 December 2022, the Group has outstanding interest rate swap agreements as follow:

<b>Loan facility and outstanding principal</b>	<b>Interest Receive Rate Swap agreements</b>	<b>Interest Pay Rate Swap agreements</b>	<b>Termination date</b>
Loan facility of Baht 4,080 million and the outstanding principal in interest rate swap agreement of Baht 2,679.44 million.	Floating rate THOR CMP BS 5BD +1.7 per annum	Fixed coupon rate 3.00% per annum	29 April 2033
Loan facility of JPY 11,699 million and the outstanding principal in interest rate swap agreement of JPY 6,800.21 million.	Floating rate TIBOR 6M +1.3% per annum	Fixed coupon rate 2.126% per annum	30 June 2036
Loan facility of U.S. Dollars 33.93 million and the outstanding principal in interest rate swap agreement of U.S. Dollars 29.11 million.	Floating rate LIBOR 3M per annum	Fixed coupon rate 0.68% and 1.00% per annum	31 March 2033
Loan facility of U.S. Dollars 20.90 million and the outstanding principal in interest rate swap agreement of U.S. Dollars 19.95 million.	Floating rate LIBOR 3M per annum	Fixed coupon rate 1.715 per annum	31 December 2031
Loan facility of U.S. Dollars 20.40 million and the outstanding principal in interest rate swap agreement of U.S. Dollars 19.95 million.	Floating rate LIBOR 3M per annum	Fixed coupon rate 3.42 per annum	30 June 2036

***Cash flow sensitivity analysis for variable-rate instruments***

A reasonable possible change of 1% in interest rates at the reporting date; this analysis assumes that all other variables, in particular foreign currency exchange rates, remain constant.

<b><i>Impact to profit or loss</i></b>	<b>Consolidated financial statements</b>		<b>Separate financial statements</b>	
	<b>1% increase in interest rate</b>	<b>1% decrease in interest rate</b>	<b>1% increase in interest rate</b>	<b>1% decrease in interest rate</b>
	<i>(in thousand Baht)</i>			
<b>2022</b>				
Cash flow sensitivity (net)	(30,279)	30,279	(17,096)	17,096
<b>2021</b>				
Cash flow sensitivity (net)	(24,574)	24,574	(3,384)	3,384

**(d) *Capital management***

The Board of Directors' policy is to maintain a strong capital base so as to maintain investor, creditor and market confidence and to sustain future development of the business. The Board regularly monitors the return on capital, by evaluating result from operating activities divided by total shareholders' equity, excluding non-controlling interests and also monitors the level of dividends to ordinary shareholders.

**Gunkul Engineering Public Company Limited and its Subsidiaries**  
**Notes to the financial statements**  
**For the year ended 31 December 2022**

**26 Commitments with non-related parties**

	<b>Consolidated financial statements</b>		<b>Separate financial statements</b>	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
<b>Capital commitment</b>				
Design, construction and installment for project under construction	6,979	44,422	-	-
<b>Total</b>	<b>6,979</b>	<b>44,422</b>	<b>-</b>	<b>-</b>

**Letters of Guarantee**

The Group and the Company had commitment to local banks and Thailand office of foreign financial institutions for letter of guarantee issued for sales and purchase of electricity, electricity used, purchase of machinery and rental agreements to certain government sector and private sectors. As at 31 December 2022, the Group had outstanding commitments being amount of Baht 3,236.90 million and U.S. Dollars 0.19 million (31 December 2021: Baht 2,044.29 million).

**Significant Agreements**

**Consultant Agreement**

The Group was committed the consultant fee to prepare environmental impact reports, consultant fee of project development and engineering feasibility studies. As at 31 December 2022, the Group had outstanding commitments being amount of Baht 2.20 million and JPY 231 million (31 December 2021: Baht 6.71 million and JPY 245.40 million).

**Service Agreement**

The Group had obligation commitment in operation and maintenance service of power plant contracts. As at 31 December 2022, the Group outstanding obligation remains at Baht 27.08 million, U.S. Dollars 1.84 million, JPY 3,575.89 million and VND 24,124.72 million. (31 December 2021: Baht 46.81 million, EUR 6.19 million, U.S. Dollars 19.84 million, JPY 3,759.19 million and VND 32,522.14 million).

**Power Purchase Agreement**

The Group has the power purchase agreements for 15 - 25 years, 5 years and renew 5 years automatically with the Electricity Generating Authority of Thailand, Provincial Electricity Authority, Metropolitan Electricity Authority, including power purchase agreements in overseas and private sectors whereby the Group will supply the electric energy at the agreed quantity and price. The Group must comply with conditions and restrictions provided for in the agreement.

**27 Events after the reporting period**

At the Board of Directors' meeting of the Company held on 27 February 2023, the Board approved to submit for approval at the annual general meeting of the shareholders of the Company on 21 April 2023. The appropriation of the profit allocation from the results of the Company's operation and retained earnings to be cash dividend at the rate of Baht 0.06 per share, total amount does not exceed Baht 535 million. The balance of dividend is subject to the approval of the shareholders at the annual general on 21 April 2023.