THE STOCK EXCHANGE OF THAILAND AND ITS SUBSIDIARIES

Financial Statements

Year ended December 31, 2019

Deloitte.

บริษัท ดีลอยท์ ทู้ช โรมัทสุ ไชยยศ สอบบัญชี จำกัด เอไอเอ สาทร ทาวเวอร์ ชั้น 23-27 11/1 ถนนสาทรใต้ แขวงยานนาวา เขดสาทร กรุงเทพฯ 10120

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REPORT OF THE INDEPENDENT CERTIFIED PUBLIC ACCOUNTANTS

TO THE MEMBERS OF THE STOCK EXCHANGE OF THAILAND AND THE STOCK EXCHANGE OF THAILAND

Opinion

We have audited the consolidated financial statements of The Stock Exchange of Thailand and its subsidiaries (the Group) and the separate financial statements of The Stock Exchange of Thailand (the "SET"), which comprise the consolidated and separate statements of financial position as at December 31, 2019, and the related consolidated and separate statements of comprehensive revenues and expenses, changes in fund balances and cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying consolidated and separate financial statements present fairly, in all material respects, the financial position of The Stock Exchange of Thailand and its subsidiaries and of The Stock Exchange of Thailand as at December 31, 2019, and financial performance and cash flows for the year then ended in accordance with Thai Financial Reporting Standards ("TFRSs").

Basis for Opinion

We conducted our audit in accordance with Thai Standards on Auditing ("TSAs"). Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Consolidated and Separate Financial Statements section of our report. We are independent of the Group in accordance with the Federation of Accounting Professions' Code of Ethics for Professional Accountants together with the ethical requirements that are relevant to the audit of the consolidated and separate financial statements, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Key audit matter is the matter that, in our professional judgment, was of most significance in our audit of the consolidated and separate financial statements of the current period. This matter was addressed in the context of our audit of the consolidated and separate financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on this matter.

Key Audit Matter	Audit Response
Revenue recognition - Trading fees	
 Trading fees have terms and conditions to charge the fees based on trading volume. The Group makes use of information and technology system in storaging of trading volume and calculating trading fees. We focused our and if on the following are as of trading fees specifically relating of : Storaging of securities trading data and processing of the information and technology system, Accuracy and completeness of information used to revenue recognition. The accounting policies of revenue recognition, the details of trading fees and operating segment information were disclosed in Note 2.18, Note 6 and Note 26 to the financial statements respectively. 	 Our key audit procedures were as follows: Understand the revenue recognition - trading fees process and related internal control procedures Review the design and implementation of the internal control procedures Perform the operating effectiveness testing over the internal control procedures around revenue recognition process including related information and technology system Perform substantive testing as follows: Examine the trading volume information of the customers and trading fees rates, recalculate the trading fees and examine the related supporting documents of those revenues whether the trading fees have been completely and accurately recognized Perform substantive analytical procedures relating to the trading fees.

Other Information

Management is responsible for the other information. The other information comprises information in the annual report, which is expected to be made available to us after the date of this auditor's report.

Our opinion on the consolidated and separate financial statements does not cover the other information and we do not express any form of assurance conclusion thereon.

In connection with our audit of the consolidated and separate financial statements, our 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 financial statements or our knowledge obtained in the audit, or otherwise appears to be materially misstated.

When we read the annual report, if we conclude that there is a material misstatement therein, we are required to communicate the matter to those charged with governance and the management of the SET.

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 SET's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Group or to cease operations, or has no realistic alternative but to do so.

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

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

Our 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 our 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, we exercise professional judgment and maintain professional skepticism throughout the audit. We 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 our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Group's internal control.
- 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 SET's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Group and the SET to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the consolidated and the 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. We are responsible for the direction, supervision and performance of the group audit. We remain solely responsible for our audit opinion.

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

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

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

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Dr. Suphamit Techamontrikul Certified Public Accountant (Thailand) Registration No. 3356 DELOITTE TOUCHE TOHMATSU JAIYOS AUDIT CO., LTD.

BANGKOK February 19, 2020

THE STOCK EXCHANGE OF THAILAND AND ITS SUBSIDIARIES STATEMENTS OF FINANCIAL POSITION AS AT DECEMBER 31, 2019

		,		(Unit : T	housand Baht)
		Consol	idated	Sepa	rate
		Financial S	Statements	Financial S	Statements
	Notes	2019	2018	2019	2018
Assets					
Current assets					
Cash and cash equivalents	8	2,329,358	1,118,595	2,092,736	948,769
Cash at banks for financial benefits payable		85,569	69,086	-	-
Assets for margin deposits and benefits	17	13,384,662	15,510,404	-	-
Short-term investments, net	9	5,383,557	7,838,876	3,183,195	7,838,876
Trade and other receivables	10	518,753	611,915	525,182	573,599
Short-term loans to a joint venture entity	7	-	7,500	-	7,500
Other current assets	11	217,505	94,326	184,849	62,523
Total current assets		21,919,404	25,250,702	5,985,962	9,431,267
Non-current assets					
Investments in subsidiaries	12	-	-	1,697,291	1,697,291
Investments in associates					
and joint venture entity, net	13	988,420	968,228	791,015	800,620
Long-term investments, net	14	7,903,958	8,837,845	7,903,958	8,837,845
Assets for clearing system protection					
and benefits	18	2,205,298	1,982,549	147,916	144,156
Securities Investor Protection Fund	25	832,028	798,473	832,028	798,473
Derivatives Investor Protection Fund	25	110,237	104,150	-	-
Long-term loans to a subsidiary	7	-	-	5,440,834	5,240,834
Reserve Fund for clearing and settlement	19	5,590,438	5,328,576	-	-
Property, plant and equipment, net	15	4,737,773	4,979,082	4,737,156	4,978,197
Intangible assets, net	16	612,385	375,757	609,788	372,279
Deferred tax assets	20	91,768	139,821	91,743	137,655
Refundable deposits		2,485	5,485	2,485	5,485
Total non-current assets		23,074,790	23,519,966	22,254,214	23,012,835
Total assets		44,994,194	48,770,668	28,240,176	32,444,102

THE STOCK EXCHANGE OF THAILAND AND ITS SUBSIDIARIES STATEMENTS OF FINANCIAL POSITION (CONTINUED) AS AT DECEMBER 31, 2019

				(Unit : T	housand Baht)
		Consol	idated	Sepa	rate
		Financial S	Statements	Financial S	Statements
	Notes	2019	2018	2019	2018
Liabilities and fund balances					
Current liabilities					
Margin deposits and benefits payable	17	13,384,662	15,510,404	-	-
Trade and other payables	21	1,490,467	1,317,727	1,296,758	1,119,754
Fees received in advance		353,399	335,255	318,156	298,559
Income tax payable		90,638	151,593	-	49,194
Short-term borrowings from subsidiaries	7	-	-	1,918,713	3,783,500
Other current liabilities	22	172,997	136,350	98,423	110,884
Total current liabilities		15,492,163	17,451,329	3,632,050	5,361,891
Non-current liabilities					
Assets for clearing system					
protection and benefits payable	18	2,057,869	1,838,393	-	-
Contributions and benefits to					
Securities Investor Protection Fund	25	336,254	322,847	336,254	322,847
Contributions and benefits to					
Derivatives Investor Protection Fund	25	54,041	48,802	-	-
Employee benefits obligation	23	613,393	436,321	613,393	436,321
Deferred tax liabilities	20	12,676	-	-	-
Other non-current liabilities		9,849	7,712	9,849	7,712
Total non-current liabilities		3,084,082	2,654,075	959,496	766,880
Total liabilities		18,576,245	20,105,404	4,591,546	6,128,771
Fund balances					
Funds	24	26,090,633	28,679,406	23,313,433	26,321,432
Other components of fund balances		327,315	(14,143)	335,197	(6,101)
Non-controlling interests		1	1	-	-
Total fund balances		26,417,949	28,665,264	23,648,630	26,315,331
Total liabilities and fund balances		44,994,194	48,770,668	28,240,176	32,444,102

Notes to the financial statements form an integral part of these financial statements

(Unit : Thousand Baht)

THE STOCK EXCHANGE OF THAILAND AND ITS SUBSIDIARIES STATEMENTS OF COMPREHENSIVE REVENUES AND EXPENSES FOR THE YEAR ENDED DECEMBER **31**, **2019**

FOR THE TEAK E	NDED DECEN	iber 51, 20		(Unit : Tho	usand Baht)	
		Consol	idated	Separate		
		Financial S	tatements	Financial S	tatements	
	Notes	2019	2018	2019	2018	
Revenues						
Operating revenues	26	5,883,591	5,722,355	2,652,268	2,601,316	
Investment income, net	27	947,954	586,185	1,549,021	862,130	
Other income	28	454,253	269,999	2,060,116	1,901,827	
Total revenues		7,285,798	6,578,539	6,261,405	5,365,273	
Expenses						
Employee benefit expenses	29	1,939,471	1,687,752	1,938,260	1,687,555	
Directors' remuneration	7	27,714	27,252	24,200	23,692	
Direct service expenses		344,368	292,846	-	-	
Building and office expenses		192,513	183,063	192,118	182,654	
Technology expenses		191,142	230,164	190,933	230,036	
Marketing expenses		172,390	160,839	158,446	139,939	
Educational activity expenses		64,603	164,079	64,698	164,134	
SEC fees	30	521,154	567,203	519,154	565,203	
Depreciation and amortisation	15 and 16	524,849	482,615	523,700	482,052	
Other expenses	31	238,615	182,272	214,870	164,246	
Total expenses		4,216,819	3,978,085	3,826,379	3,639,511	
Share of profit of investments in associates and						
joint venture entity, net of tax	13	45,383	8,630	-	-	
Revenues over expenses		3,114,362	2,609,084	2,435,026	1,725,762	
Non-operating revenues (expenses)						
Income derived from Securities Investor						
Protection Fund, net	25	13,930	9,937	13,930	9,937	
Income derived from Derivatives Investor						
Protection Fund, net	25	848	686	-	-	
Transfer money to the Capital Market Development Fund	32	(5,700,000)	-	(5,700,000)	-	
Reversal (contributions) to the Stock Exchange of Thailand						
Foundation	7	186,132	(186,132)	186,132	(186,132)	
Revenues over (under) expenses before						
income tax expense		(2,384,728)	2,433,575	(3,064,912)	1,549,567	
Income tax (expense) revenue	33	(214,271)	(478,662)	46,687	(236,286)	
Revenues over (under) expenses		(2,598,999)	1,954,913	(3,018,225)	1,313,281	
Revenues over (under) expenses for the years						
attributable to:						
Owners of the parent		(2,598,999)	1,954,913	(3,018,225)	1,313,281	
Non-controlling interests		-	-	-	-	
č		(2,598,999)	1,954,913	(3,018,225)	1,313,281	

THE STOCK EXCHANGE OF THAILAND AND ITS SUBSIDIARIES STATEMENTS OF COMPREHENSIVE REVENUES AND EXPENSES (CONTINUED) FOR THE YEAR ENDED DECEMBER 31, 2019

FOR THE YEAR EN	NDED DECE	MIDER 31, 20	19	(Unit : Tho	usand Baht)	
		Consol Financial S		•	Separate nancial Statements	
	Notes	2019	2018	2019	2018	
Revenues over (under) expenses		(2,598,999)	1,954,913	(3,018,225)	1,313,281	
Other comprehensive revenues and expenses:						
Items that will be reclassified subsequently						
to revenues and expenses						
Share of other comprehensive profit (loss)						
of investments in associates	13	158	(103)	-	-	
Change in value of available-for-sale investments						
managed by SET	25.2	417,992	(825,957)	417,992	(825,957)	
Change in value of available-for-sale investments						
from Securities Investor Protection Fund	25.2	6,218	(10,646)	6,218	(10,646)	
Income tax relating to items that will be reclassified						
subsequently to revenues and expenses	25.2	(82,910)	171,725	(82,912)	170,698	
Total items that will be reclassified						
subsequently to revenues and expenses		341,458	(664,981)	341,298	(665,905)	
Items that will not be reclassified subsequently						
to revenues and expenses						
Remeasurements of post-employment benefits obligations	25.2	10,226	606	10,226	-	
Income tax relating to items that will not be reclassified						
subsequently to revenues and expenses	25	-	(121)	-	-	
Total items that will not be reclassified					_	
subsequently to revenues and expenses		10,226	485	10,226	-	
Other comprehensive revenues and expenses		351,684	(664,496)	351,524	(665,905)	
Total comprehensive revenues and expenses		(2,247,315)	1,290,417	(2,666,701)	647,376	
Total comprehensive revenues and expenses						
for the years attributable to:						
Owners of the parent		(2,247,315)	1,290,418	(2,666,701)	647,376	
Non-controlling interests		-	(1)		-	
		(2,247,315)	1,290,417	(2,666,701)	647,376	
		(2,2,010)	-,_,0,.17	(3,000,701)	0.7,070	

THE STOCK EXCHANGE OF THAILAND AND ITS SUBSIDIARIES STATEMENT OF CHANGES IN FUND BALANCES FOR THE YEAR ENDED DECEMBER 31, 2019

(Unit : Thousand Baht)

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				Consolidated Financial Statements						
Change in value of available-for-sale balances Share of other comprehensive rom Securities Total other comprehensive associates Total fund Non- controlling Total fund Opening balance as at January 1, 2018 26,724,008 639,642 11,223 (28) 650,837 27,374,845 2 27,374,847 Other comprehensive revenues and expenses, net of tax 24 485 (659,735) (5,142) (103) (664,980) (664,495) (1) (664,496) Opening balance as at January 1, 2018 28,679,406 (20,093) 6,081 (131) (14,143) 28,665,263 1 28,665,264 Opening balance as at January 1, 2019 28,679,406 (20,093) 6,081 (131) (14,143) 28,665,263 1 28,665,264 Opening balance as at January 1, 2019 28,679,406 (20,093) 6,081 (131) (14,143) 28,665,263 1 28,665,264 Opening balance as at January 1, 2019 28,679,406 (20,093) 6,081 (131) (14,143) 28,665,263 1 28,665,264 Other comprehensive revenues and expenses, net of tax<				0	ther components of fu	nd balances				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $					Change in value					
Fund balancesinvestments managed by SETfrom Securities Investor Protectionprofit (loss) of associatescomponents of fundTotal fundNon- controllingTotal fundOpening balance as at January 1, 201826,724,008 $639,642$ $11,223$ (28) $650,837$ $27,374,845$ 2 $27,374,845$ Other comprehensive revenues and expenses, net of tax24 485 $(659,735)$ $(5,142)$ (103) $(664,980)$ $(664,495)$ (1) $(664,496)$ Closing balance as at January 1, 201828,679,406 $(20,093)$ $6,081$ (131) $(14,143)$ $28,665,263$ 1 $28,665,264$ Opening balance as at January 1, 201928,679,406 $(20,093)$ $6,081$ (131) $(14,143)$ $28,665,263$ 1 $28,665,264$ Other comprehensive revenues and expenses, net of tax24 $10,226$ $335,082$ $6,081$ (131) $(14,143)$ $28,665,263$ 1 $28,665,264$ Opening balance as at January 1, 201928,679,406 $(20,093)$ $6,081$ (131) $(14,143)$ $28,665,263$ 1 $28,665,264$ Other comprehensive revenues and expenses, net of tax24 $10,226$ $335,082$ $6,218$ 158 $341,458$ $351,684$ - $351,684$ Revenues under expenses24 $(2,598,999)$ (2,598,999)- $(2,598,999)$				Change in value	of available-for-sale	Share of other				
balances Note balances (See Note 24) managed by SET (net of tax) Investor Protection Fund (net of tax) associates (net of tax) of fund balances fund balances controlling balances fund balances Opening balance as at January 1, 2018 26,724,008 639,642 11,223 (28) 650,837 27,374,845 2 27,374,847 Other comprehensive revenues and expenses, net of tax 24 485 (659,735) (5,142) (103) (664,980) (664,495) (1) (664,496) Revenues over expenses 24 1,954,913 - - - 1,954,913 - 1,954,913 Closing balance as at January 1, 2019 28,679,406 (20,093) 6,081 (131) (14,143) 28,665,263 1 28,665,264 Other comprehensive revenues and expenses, net of tax 24 10,226 335,082 6,218 158 341,458 351,684 - 351,684 Other comprehensive revenues and expenses 24 (2,598,999) - - - - (2,598,999) - (2,598,999) <th></th> <th></th> <th></th> <th>of available-for-sale</th> <th>investments</th> <th>comprehensive</th> <th>Total other</th> <th></th> <th></th> <th></th>				of available-for-sale	investments	comprehensive	Total other			
Note(See Note 24)(net of tax)Fund (net of tax)(net of tax)balancesbalancesinterestsbalancesOpening balance as at January 1, 2018 $26,724,008$ $639,642$ $11,223$ (28) $650,837$ $27,374,845$ 2 $27,374,847$ Other comprehensive revenues and expenses, net of tax 24 485 $(659,735)$ $(5,142)$ (103) $(664,980)$ $(664,495)$ (1) $(664,496)$ Revenues over expenses 24 $1,954,913$ $ 1,954,913$ $ 1,954,913$ Closing balance as at December 31, 2018 $28,679,406$ $(20,093)$ $6,081$ (131) $(14,143)$ $28,665,263$ 1 $28,665,264$ Opening balance as at January 1, 2019 $28,679,406$ $(20,093)$ $6,081$ (131) $(14,143)$ $28,665,263$ 1 $28,665,264$ Other comprehensive revenues and expenses, net of tax 24 $10,226$ $335,082$ $6,218$ 158 $341,458$ $351,684$ $ 351,684$ Revenues under expenses 24 $(2,598,999)$ $ (2,598,999)$ $ -$			Fund	investments	from Securities	profit (loss) of	components	Total	Non-	Total
Opening balance as at January 1, 2018 26,724,008 639,642 11,223 (28) 650,837 27,374,845 2 27,374,847 Other comprehensive revenues and expenses, net of tax 24 485 (659,735) (5,142) (103) (664,980) (664,495) (1) (664,496) Revenues over expenses 24 1,954,913 - - - 1,954,913 - 1,954,913 Closing balance as at December 31, 2018 28,679,406 (20,093) 6,081 (131) (14,143) 28,665,263 1 28,665,264 Opter comprehensive revenues and expenses, net of tax 24 10,226 335,082 6,218 158 341,458 351,684 - 351,684 Revenues under expenses 24 (2,598,999) - - - - - (2,598,999) - (2,598,999) - (2,598,999) - - - (2,598,999) - (2,598,999) - (2,598,999) - (2,598,999) - (2,598,999) - (2,598,999) - (2,598,999) - (2,598,999) - (2,598,999) - <th></th> <th></th> <th>balances</th> <th>managed by SET</th> <th>Investor Protection</th> <th>associates</th> <th>of fund</th> <th>fund</th> <th>controlling</th> <th>fund</th>			balances	managed by SET	Investor Protection	associates	of fund	fund	controlling	fund
LLL		Note	(See Note 24)	(net of tax)	Fund (net of tax)	(net of tax)	balances	balances	interests	balances
Revenues over expenses 24 1,954,913 - - - - 1,954,913 - 1,954,913 Closing balance as at December 31, 2018 28,679,406 (20,093) 6,081 (131) (14,143) 28,665,263 1 28,665,264 Opening balance as at January 1, 2019 28,679,406 (20,093) 6,081 (131) (14,143) 28,665,263 1 28,665,264 Other comprehensive revenues and expenses, net of tax 24 10,226 335,082 6,218 158 341,458 351,684 - 351,684 Revenues under expenses 24 (2,598,999) - - - - - (2,598,999) - (2,598,999)	Opening balance as at January 1, 2018		26,724,008	639,642	11,223	(28)	650,837	27,374,845	2	27,374,847
Closing balance as at December 31, 2018 28,679,406 (20,093) 6,081 (131) (14,143) 28,665,263 1 28,665,264 Opening balance as at January 1, 2019 28,679,406 (20,093) 6,081 (131) (14,143) 28,665,263 1 28,665,264 Other comprehensive revenues and expenses, net of tax 24 10,226 335,082 6,218 158 341,458 351,684 - 351,684 Revenues under expenses 24 (2,598,999) - - - (2,598,999) - (2,598,999)	Other comprehensive revenues and expenses, net of tax	24	485	(659,735)	(5,142)	(103)	(664,980)	(664,495)	(1)	(664,496)
Opening balance as at January 1, 2019 28,679,406 (20,093) 6,081 (131) (14,143) 28,665,263 1 28,665,264 Other comprehensive revenues and expenses, net of tax 24 10,226 335,082 6,218 158 341,458 351,684 - 351,684 Revenues under expenses 24 (2,598,999) - - - - (2,598,999) - (2,598,999)	Revenues over expenses	24	1,954,913	-	-	-	-	1,954,913	-	1,954,913
Other comprehensive revenues and expenses, net of tax 24 10,226 335,082 6,218 158 341,458 351,684 - 351,684 Revenues under expenses 24 (2,598,999) - - - - (2,598,999)	Closing balance as at December 31, 2018		28,679,406	(20,093)	6,081	(131)	(14,143)	28,665,263	1	28,665,264
Other comprehensive revenues and expenses, net of tax 24 10,226 335,082 6,218 158 341,458 351,684 - 351,684 Revenues under expenses 24 (2,598,999) - - - - (2,598,999)	Opening balance as at January 1, 2019		28.679.406	(20.093)	6.081	(131)	(14,143)	28.665.263	1	28.665.264
Revenues under expenses 24 (2,598,999) - - - - (2,598,999) - (2,598,999)		24			· · · · · · · · · · · · · · · · · · ·	. ,			-	
	x x ·				-	-	-	,	-	
	Closing balance as at December 31, 2019		26,090,633	314,989	12,299	27	327,315	26,417,948	1	26,417,949

THE STOCK EXCHANGE OF THAILAND AND ITS SUBSIDIARIES STATEMENT OF CHANGES IN FUND BALANCES (CONTINUED) FOR THE YEAR ENDED DECEMBER 31, 2019

(Unit : Thousand Baht)

			Separate Financial Statements					
			Other co	omponents of fund bala	nces			
				Change in value				
			Change in value	of available-for-sale				
			of available-for-sale	investments				
			investments	from Securities	Total other			
		Fund balances	managed by SET	Investor Protection	components	Total fund		
	Note	(See Note 24)	(net of tax)	Fund (net of tax)	of fund balances	balances		
Opening balance as at January 1, 2018		25,008,151	648,581	11,223	659,804	25,667,955		
Other comprehensive revenues and expenses, net of tax	24	-	(660,763)	(5,142)	(665,905)	(665,905)		
Revenues over expenses	24	1,313,281	-	-		1,313,281		
Closing balance as at December 31, 2018		26,321,432	(12,182)	6,081	(6,101)	26,315,331		
Opening balance as at January 1, 2019		26,321,432	(12,182)	6,081	(6,101)	26,315,331		
Other comprehensive revenues and expenses, net of tax	24	10,226	335,080	6,218	341,298	351,524		
Revenues under expenses	24	(3,018,225)	-	-		(3,018,225)		
Closing balance as at December 31, 2019		23,313,433	322,898	12,299	335,197	23,648,630		

THE STOCK EXCHANGE OF THAILAND AND ITS SUBSIDIARIES STATEMENTS OF CASH FLOWS FOR THE YEAR ENDED DECEMBER 31, 2019

				(Unit : The	ousand Baht)	
		Consolidated		Separate		
		Financial S	tatements	Financial St	tatements	
	Notes	2019	2018	2019	2018	
Cash flows from operating activities						
Revenues over (under) expenses before income tax expense		(2,384,728)	2,433,575	(3,064,912)	1,549,567	
Adjustments for						
Depreciation and amortisation	15 and 16	524,849	482,615	523,700	482,052	
Investment income, net		(843,366)	(593,398)	(1,516,714)	(861,978)	
Income derived from Securities Investor						
Protection Fund, net	25	(13,930)	(9,937)	(13,930)	(9,937)	
Income derived from Derivatives						
Investor Protection Fund, net	25	(848)	(686)	-	-	
Reversal of allowance for impairment of investments		(3,395)	-	(3,395)	-	
Doubtful debts expenses		1,763	-	3,544	-	
Employee benefits obligation	23	192,132	51,008	192,132	51,008	
Loss from write-off of assets		52	507	52	507	
Share of profit of investments in associates and						
joint venture entity - net of tax	13	(45,383)	(8,630)	-	-	
	•	(2,572,854)	2,355,054	(3,879,523)	1,211,219	
Changes in operating assets and liabilities						
(Increase) decrease in operating assets						
Assets for margin deposits and benefits		2,125,742	(2,112,519)	-	-	
Trade and other receivables		102,061	195,996	127,681	256,360	
Other current assets		13,827	(19,118)	9,197	(11,474)	
Assets for clearing system protection and benefits		(222,749)	(80,152)	(3,760)	(1,646)	
Securities Investor Protection Fund		(33,457)	(11,750)	(33,457)	(11,750)	
Derivatives Investor Protection Fund		(6,321)	(13,007)	-	-	
Refundable deposits		3,000	(500)	3,000	(500)	
Increase (decrease) in operating liabilities		2,000	(000)	2,000	(000)	
Margin deposits and benefits payables		(2,125,742)	2,112,519	_	-	
Trade and other payables		180,274	218,991	184,538	182,819	
Fees received in advance		18,144	21,388	19,597	25,029	
Other current liabilities		35,889	18,966	(13,219)	19,773	
Assets for clearing system protection and		55,007	10,700	(13,217)	1),775	
benefits payable		219,476	78,506			
Contributions and benefits to Securities Investor		219,470	78,300	-	-	
Protection Fund		13,407	0 472	13,407	0 472	
Contributions and benefits to Derivative Investor		15,407	9,472	15,407	9,472	
Protection Fund		5 220	11.079			
	22	5,239	11,978	-	-	
Employee benefits paid	23	(4,076)	(18,666)	(4,076)	(18,568)	
Transfer of employees from a subsidiary		-	-	-	1,354	
Other non-current liabilities		2,099	(1,942)	2,099	(1,045)	
Cash flows generated from (used in) operations		(2,246,041)	2,765,216	(3,574,516)	1,661,043	
Less Income tax paid		(434,413)	(553,532)	(171,030)	(353,187)	
Net cash provided by (used in) operating activities		(2,680,454)	2,211,684	(3,745,546)	1,307,856	

THE STOCK EXCHANGE OF THAILAND AND ITS SUBSIDIARIES STATEMENTS OF CASH FLOWS (CONTINUED) FOR THE YEAR ENDED DECEMBER 31, 2019

				(Unit : Th	ousand Baht)	
		Consol	idated	Separate		
		Financial S	tatements	Financial S	tatements	
	Notes	2019	2018	2019	2018	
Cash flows from investing activities						
Investment income received		695,567	375,973	661,827	386,611	
Dividend received		143,356	211,998	814,866	532,529	
Purchase of short-term investments	9	(2,472,237)	(3,018,708)	(271,875)	(3,018,708)	
Proceeds from disposals of short-term investments	9	4,904,849	2,044,831	4,904,849	2,044,831	
Proceeds from disposals of investment in joint venture entity		13,000	-	13,000	-	
Purchase of general investments	14	(24,500)	-	(24,500)	-	
Proceeds from short-term loans to joint venture entity	7	7,500	-	7,500	-	
Short-term loans to joint venture entity	7	-	(7,500)	-	(7,500)	
Purchase of long-term investments	14	(1,999,380)	(3,703,981)	(1,999,380)	(3,703,981)	
Proceeds from disposals of long-term investments	14	3,398,504	2,303,330	3,398,504	2,303,330	
Proceeds from long-term loans to a subsidiary	7	-	-	-	5,957	
Payment for long-term loans to a subsidiary	7	-	-	(200,000)	(200,000)	
Reserve fund for clearing and settlement		(261,862)	(204,256)	-	-	
Purchase of property, plant and equipment		(148,220)	(298,163)	(148,220)	(297,941)	
Proceeds from disposals of property, plant and equipment		1,643	-	1,643	-	
Purchase of intangible assets		(381,177)	(85,017)	(381,177)	(82,121)	
Proceeds from share of profit of investments						
in joint venture entity	13	-	2,047	-	-	
Proceeds from share of profit of investments in associates	13	15,743	12,595	-	-	
Benefits received from Securities Investor Protection Fund		13,832	12,924	13,832	12,924	
Benefits received from Derivatives		,	,	,	,	
Investor Protection Fund		1,082	1,029	-	-	
Net cash provided by (used in) investing activities		3,907,700	(2,352,898)	6,790,869	(2,024,069)	
		- , ,	()	-,,	()-))	
Cash flows from financing activities	7			458,713	1 226 000	
Cash inflow on short-term borrowings from subsidiaries		-	-		1,226,000	
Repayment of short-term borrowings from subsidiaries	7	-	-	(2,323,500)	(364,000)	
Interest paid				(36,569)	(51,360)	
Net cash provided by (used in) financing activities				(1,901,356)	810,640	
Net increase (decrease) in cash and cash equivalents		1,227,246	(141,214)	1,143,967	94,427	
Opening balances		1,187,681	1,328,895	948,769	854,342	
Closing balances		2,414,927	1,187,681	2,092,736	948,769	
Supplemental disclosures of cash flows information						
Cash and cash equivalents are as follows:						
Cash and cash equivalents	8	2,329,358	1,118,595	2,092,736	948,769	
Cash at a banks for financial benefits payable		85,569	69,086	-	-	
1 5		2,414,927	1,187,681	2,092,736	948,769	
Significant non-cash transactions			<u> </u>	<u> </u>		
Unrealized gain (loss) on available-for-sale securities		418,150	(826,060)	417,992	(825,957)	
Unrealized gain (loss) on available-for-sale securities		410,150	(820,000)	+1/,772	(025,957)	
from Securities Investor Protection Fund	25.2	6 010	(10 646)	6 210	(10 646)	
	25.2	6,218	(10,646)	6,218	(10,646)	
Other payables from purchase of assets		18,735	26,269	18,735	26,269	

THE STOCK EXCHANGE OF THAILAND AND ITS SUBSIDIARIES NOTES TO THE CONSOLIDATED AND SEPARATE FINANCIAL STATEMENTS FOR THE YEAR ENDED DECEMBER **31**, **2019**

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THE STOCK EXCHANGE OF THAILAND AND ITS SUBSIDIARIES NOTES TO THE CONSOLIDATED AND SEPARATE FINANCIAL STATEMENTS FOR THE YEAR ENDED DECEMBER **31**, **2019**

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1. GENERAL INFORMATION

The Stock Exchange of Thailand (SET) is a juristic entity incorporated in Thailand under the Securities Exchange of Thailand Act B.E. 2517 (1974). The principal business activities of SET are serving as the market or the centre for trading of securities and providing related services without the objective of distribution of profit to members. SET commenced its trading of securities on April 30, 1975 and operates under the framework of the Securities Exchange of Thailand Act B.E. 2535 (1992). Its registered office is located at 93 Floor 17 Ratchadapisek Road, Kwaeng Din Daeng, Khet Din Daeng, Bangkok 10400, Thailand.

For reporting purposes, SET and its subsidiaries are referred to as the Group.

The principal activities of SET and its subsidiaries are summarised as follows:

- 1) Securities markets comprise the operation of securities listing, trading system, clearing and settlement, depository, including market surveillance and supervision of listed companies and member companies.
- 2) Derivatives markets comprise the operation of trading and clearing of futures contracts and financial securities, providing other services related to futures trading transactions.
- 3) Technology services comprise the operation of internet trading platform for securities and derivatives, information services and other member services.
- 4) Registrar services and fund services comprise the operation of securities registrar and fund services.

Details of SET's subsidiaries, associates and joint venture entity as at December 31, 2019 and 2018 are as follows:

Ownership interest

			Ownership interest		
		Country of	9	6	
Name of entity	Type of business	incorporation	2019	2018	
Direct subsidiaries					
Thailand Securities Depository Co., Ltd.	Securities depository and registrar services	Thailand	100.00	100.00	
Thai Trust Fund Management Co., Ltd.	Mutual fund management	Thailand	100.00	100.00	
Thai NVDR Co., Ltd.	Investment management in Non-Voting Depository Receipts	Thailand	100.00	100.00	
SETTRADE.COM Co., Ltd.	Computer system services	Thailand	100.00	100.00	
Thailand Futures Exchange	Derivatives exchange	Thailand	100.00	100.00	
Public Company Limited					
Thailand Clearing House Co., Ltd.	Clearing house and related back-office services for securities and derivatives contracts	Thailand	100.00	100.00	
Finnet Innovation Network Co., Ltd.	Rendering payment service for the capital market	Thailand	100.00	100.00	
Live Fin Corp Co., Ltd.	Provider of electronic network system for investment	Thailand	100.00	100.00	
Joint venture entity	-				
Family Know-how Co., Ltd. (1)	Media business specialising	Thailand	50.00	50.00	
(the dissolution was registered on December 26, 2018)	in financial and investment information				
Associates					
Clearing Fund ⁽²⁾	Fund	Thailand	8.59	9.42	
TSFC Securities Public Company Limited ⁽³⁾	Securities financing services and securities borrowing and lending	Thailand	40.65	40.65	

Details of SET's associates and joint venture entity as at December 31, 2019 and 2018 are as follows:

(1) Family Know-how Co., Ltd.

Family Know-how Co., Ltd. is a media company that broadcasts information about economics and investment for the benefits of investor. SET has performed joint arrangement with a company which have rights to the net assets of the arrangement. Therefore, the investment in Family Know-how is classified as investment in joint venture entity.

Family Know-how Co., Ltd. is a private limited company and its stock is not traded in the market price.

A Company has registered the dissolution with the Ministry of Commerce on December 26, 2018, and is currently in the process of liquidation.

(2) Clearing Fund

The Clearing Fund operates under the Regulations of the Clearing Fund (No.1) B.E. 2541 (1998), which require that a one-time payment of Baht 100 million be made as an initial contribution by SET. The ownership interest percentage will be reduced based on further contributions made by other members of the Clearing Fund in the future. SET has no control over the Clearing Fund's operations, but has influences in policy and operation. Therefore, the investment in the Clearing Fund is classified as investment in an associate.

(3) TSFC Securities Public Company Limited (TSFC)

TSFC Securities Public Company Limited has been established to provide liquidity for securities companies and to support to the further development of securities market. SET has appointed 5 representatives to be member of the 11-member Board of Directors of TSFC. The Board of Directors will participate in the decision-making on monetary policies and operations of the company. Therefore, the investment in TSFC is classified as investment in an associate.

TSFC Securities Public Company Limited is a public company and its stock is not traded in the market price.

2. ACCOUNTING POLICIES

2.1 Basis of preparation

The consolidated and separate financial statements have been prepared in accordance with Thai Financial Reporting Standards under the Accounting Act B.E. 2543 (2000), being those Thai Financial Reporting Standards issued under the Accounting Profession Act B.E. 2547 (2004).

The consolidated and separate financial statements have been prepared under the historical cost convention except as disclosed in the accounting policy for investments below.

The preparation of financial statements in conformity with Thai Financial Reporting Standards requires the use of certain critical accounting estimates. It also requires management to exercise its judgement in the process of applying the Group's accounting policies. The areas involving a higher degree of judgement or complexity, or areas where assumptions and estimates are significant to the consolidated and separate financial statements are disclosed in Note 3.

An English version of the consolidated and separate financial statements has been prepared from the statutory financial statements that are in the Thai language. In the event of a conflict or a difference in interpretation between the two languages, the Thai language statutory financial statements shall prevail.

- 2.2 Revised financial reporting standards, and related interpretations
 - 2.2.1 Thai Financial Reporting Standards affecting the presentation and disclosure in the current period financial statements

During the period, the Group has adopted the revised and new financial reporting standards and guidelines on accounting issued by the Federation of Accounting Professions which become effective for fiscal years beginning on or after January 1, 2019. These financial reporting standards were aimed at alignment with the corresponding International Financial Reporting Standards, with most of the changes directed towards revision of wording and terminology, and provision of interpretations and accounting guidance to users of standards. The adoption of these financial reporting standards does not have any significant impact on the Group's financial statements. However, the new financial reporting Standard No. 15 "Revenue from Contracts with Customers" ("TFRS 15"). The Group's accounting policies for revenues are disclosed in Note 2.18 to the financial statements. The application of TFRS 15 has no significant impact on the financial position and/or financial performance of the Group.

2.2.2 Thai Financial Reporting Standards announced in the Royal Gazette but not yet effective

The Federation of Accounting Professions has issued the Notification regarding Thai Accounting Standards, Thai Financial Reporting Standards and Thai Financial Reporting Standard Interpretation which have been announced in the Royal Gazette and will be effective for the financial statements for the period beginning on or after January 1, 2020 onwards, as follows:

Group of Financial Instruments Standards

Thai Accounting Standards ("TAS")TAS 32Financial Instruments: PresentationTL : E:::Standards ("TEDES")

Thai Financial Reporting Standards ("TFRS")			
TFRS 7	Financial Instruments: Disclosures		
TFRS 9	Financial Instruments		

Thai Financial Reporting Standard Interpretations ("TFRIC")

TFRIC 16 Hedges of a Net Investment in a Foreign Operation

TFRIC 19 Extinguishing Financial Liabilities with Equity Instruments

These group of Standards make stipulations relating to the classification of financial instruments and their measurement at fair value or amortized cost; taking into account the type of instrument, the characteristics of the contractual cash flows and the Company's business model, the calculation of impairment using the expected credit loss method, and the concept of hedge accounting. These include stipulations regarding the presentation and disclosure of financial instruments. These Standards will supersede the Standards and Interpretations relating to the financial instruments upon its effective date.

Thai Financial Reporting Standards No. 16 "Leases" ("TFRS 16")

This TFRS provides a comprehensive model for the identification if lease arrangements and their treatment in the financial statements of both lessees and lessors.

This TFRS will supersede the following lease Standards and Interpretations upon its effective date, which are Thai Accounting Standard No.17 "Leases", Thai Accounting Standard Interpretation No.15 "Operating Lease - Incentives", Thai Accounting Standard Interpretation No.27 "Evaluating the Substance of Transactions involving the Legal Form of a Lease" and Thai Financial Reporting Standard Interpretation No.4 "Determining whether on Arrangement contains a Lease".

For lessee accounting, there are significant changes to lease accounting in this TFRS by removing the distinction between operating and finance leases under TAS 17 and requiring a lessee to recognize a right-of-use asset and a lease liability at commencement for all leases, except for short-term- leases and leases of low value assets. However, the lessor accounting treatment continues to require a lessor to classify a lease either as an operating lease or a finance lease, using the same concept as TAS 17.

Other financial reporting standards

Thai Accounting Standards ("TAS")

TAS 12	Income Taxes
TAS 19	Employee Benefits
TAS 23	Borrowing Costs
TAS 28	Investments in Associates and Joint Ventures

Thai Financial Reporting Standards ("TFRS")

TFRS 3	Business Combinations			
TFRS 11	Joint Arrangements			

The Group's management has assessed the impact of this TFRS and believed that it will not have any material impact on the financial statements of the Group in the period of initial application.

- 2.3 Group Accounting Investments in subsidiaries, associates and joint ventures entity
 - 1) Subsidiaries

Subsidiaries are all entities (including structured entities) over which the Group has control. The Group controls an entity when the Group is exposed to, or has rights to, variable returns from its involvement with the entity and has the ability to affect those returns though its power over the entity. Subsidiaries are fully consolidated from the date on which control is transferred to the Group. They are deconsolidated from the date that control ceases.

Intercompany transactions, balances and unrealized gains or loss on transactions between the Group are eliminated. Unrealized losses are also eliminated unless the transaction provides evidence of an impairment of the transferred asset. Accounting policies of subsidiaries have been changed where necessary to ensure consistency with the policies adopted by the Group. In the separate financial statements, investments in subsidiaries are accounted for at cost less impairment. Cost is adjusted to reflect changes in consideration arising from contingent consideration amendments. Cost also includes direct attributable costs of investment.

2) Transactions and non-controlling interests

The Group treats transactions with non-controlling interests as transactions with the Fund. For purchases from non-controlling interests, the difference between any consideration paid and the relevant share acquired of the carrying value of net assets of the subsidiary is recorded in the Fund. Gains or losses on disposals to non-controlling interests are also recorded in the Fund.

3) Disposal of subsidiaries

When the Group ceases to have control, any retained interest in the entity is re-measured to its fair value, with the change in carrying amount recognized in revenues and expenses. The fair value is the initial carrying amount for the purposes of subsequently accounting for the retained interest as an associate, joint venture or financial asset. In addition, any amounts previously recognized in other comprehensive revenues and expenses in respect of that entity are accounted for as if the Group had directly disposed of the related assets or liabilities.

4) Associates

Associates are all entities over which the Group has significant influence but not control, generally accompanying a shareholding of between 20% and 50% of the voting rights. Investments in associates are accounted for using the equity method of accounting. Under the equity method, the investment is initially recognized at cost, and the carrying amount is increased or decreased to recognize the investor's share of the profit or loss of the investee after the date of acquisition. The Group's investment in associates includes goodwill identifies on acquisition.

If the ownership interest in an associate is reduced but significant influence is retained, only a proportionate share of the amounts previously recognized in other comprehensive revenues and expenses is reclassified to revenues and expenses where appropriate.

The Group's share of its associates' post-acquisition profits or losses is recognized in the revenues and expenses, and its share of post-acquisition movements in other comprehensive revenues and expenses is recognized in other comprehensive revenues and expenses. The cumulative post-acquisition movements are adjusted against the carrying amount of the investment. When the Group's share of losses in an associate equals or exceeds its interest in the associate, including any other unsecured receivables, the Group does not recognize further losses, unless it has incurred obligations or made payments on behalf of the associate. The Group determines at each reporting date whether there is any objective evidence that the investment in the associate is impaired. If this the case, the Group calculates the amount of impairment as the difference between the recoverable amount of the associate and its carrying value and recognizes the amount adjacent to share of profit/(loss) of associates in the statement of comprehensive revenues and expenses.

Unrealized gains on transactions between the Group and its associates are eliminated to the extent of the Group's interest in the associates. Unrealized losses are also eliminated unless the transaction provides evidence of an impairment of the asset transferred.

Accounting policies of associates have been changed where necessary to ensure consistency with the policies adopted by the Group. Dilution gains and losses arising in investments in associates are recognized in the revenues and expenses.

In the separate financial statements, investments in associates are accounted for at cost less impairment. Cost is adjusted to reflect changes in consideration arising from contingent consideration amendments. Cost also includes direct attributable costs of investment.

5) Joint venture entity

Under the equity method of accounting, interests in joint ventures are initially recognized at cost and adjusted thereafter to recognize the Group's share of the post-acquisition profits or losses and movements in other comprehensive revenues and expenses. When the Group's share of losses in a joint venture equals or exceeds its interests in the joint ventures (which includes any long-term interests that, in substance, from part of the Group's net investment in the joint ventures), the Group does not recognize further losses, unless it has incurred obligations or made payments on behalf of the joint ventures.

Unrealized gains on transactions between the Group and its joint ventures are eliminated to the extent of the Group's interest in the joint ventures. Unrealized losses are also eliminated unless the transaction provides evidence of an impairment of the asset transferred. Accounting policies of the joint ventures have been changed where necessary to ensure consistency with the policies adopted by the Group.

- 2.4 Foreign currencies
 - a) Functional and presentation currency

Items included in the financial statements of each of the Group's entities are measured using the currency of the primary economic environment in which the entity operates (the functional currency). The consolidated financial statements are presented in Thai Baht, which is the Group's functional and the Group's presentation currency.

b) Transactions and balances

Foreign currency transactions are translated into the functional currency using the exchange rates prevailing at the dates of the transactions or valuation where items are re-measured. Foreign exchange gains and losses resulting from the settlement of such transactions and from the translation at year-end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognized in the revenues or expenses.

When a gain or loss on a non-monetary item is recognized in other comprehensive revenues and expenses, any exchange component of that gain or loss is recognized in other comprehensive revenues and expenses. Conversely, when a gain or loss on a non-monetary item is recognized in revenues or expenses, any exchange component of that gain or loss is recognized in revenues or expenses.

2.5 Underlying assets

Underlying assets are the financial assets carried by Thai NVDR Co., Ltd. (the subsidiary). The financial liabilities are the Non-Voting Depository Receipts (NVDRs). The subsidiary will offset the financial assets and financial liabilities, and show the net amount in the financial statements. According to the regulations and conditions in the prospectus, the subsidiary are responsible for issuing and selling NVDRs and making investments in listed companies in the Stock Exchange of Thailand at the same amount and in the same period (back to back). In addition to the entitlement of financial benefits of those underlying securities as the registered holder, the subsidiaries have an obligation to repay those financial benefits to the investors in the NVDRs as mentioned in the prospectus. Those benefits are not recognized as revenues or expenses of the subsidiary.

2.6 Cash and cash equivalents

Cash and cash equivalents comprise cash on hand, call deposits (excluding deposits held to maturities), other short-term highly liquid investments held for working capital and short-term commitment payment purposes with maturities from acquisition date of three months or less.

2.7 Investments

Investments other than investments in subsidiaries, associates and joint ventures are classified into the following four categories: 1) trading investments; 2) held-tomaturity investments; 3) available-for-sale investments; and 4) general investments. The classification is dependent on the purpose for which the investments were acquired. Management determines the appropriate classification of its investments at the time of the purchase and re-evaluates such designation on a regular basis.

- 1) Trading investments are acquired principally for the purpose of generating a profit from short-term fluctuations in price are classified as trading investments and included in current assets.
- 2) Held-to-maturity investments are investments with fixed maturity that the management has the intent and ability to hold to maturity are classified as held-to-maturity and are included in non-current assets, except for maturities within 12 months from the statement of financial position date which are classified as current assets.
- 3) Available-for-sale investments are investments intended to be held for an indefinite period of time, which may be sold in response to liquidity needs or changes in interest rates, are classified as available-for-sale; and are included in non-current assets unless management has expressed the intention of holding the investment for less than 12 months from the statement of financial position date or unless they will need to be sold to raise operating capital, in which case they are included in current assets.
- 4) General investments are investments in non-marketable equity.

All categories of investments are initially recognized at cost, which is equal to the fair value of consideration paid plus transaction cost.

Trading investments and available-for-sale investments are subsequently measured at fair value. The fair value of investments is based on quoted bid price at the close of business on the statement of financial position date by reference to the Stock Exchange of Thailand and the Thai Bond Dealing Centre. The unrealized gains and losses of trading investments are recognized in revenues and expenses. The unrealized gains and losses of available-for-sale in investments are recognized in other comprehensive revenues and expenses.

Held-to-maturity investments are carried at amortised cost using the effective yield method less impairment loss.

General investments are carried at cost less impairment loss.

A test for impairment is carried out when there is a factor indicating that an investment might be impaired. If the carrying value of the investment is higher than its recoverable amount, impairment loss is charged to revenues and expenses.

On disposal of an investment, the difference between the net disposal proceeds and the carrying amount is charged or credited to the revenues and expenses. When disposing part of the holding of a particular investment in debt or equity securities, the carrying amount of the disposed part is determined by the weighted average carrying amount of the total holding of the investment.

2.8 Trade and other receivables

Trade and other receivables are carried at original invoice amount less allowance for doubtful accounts (if any).

The allowance for doubtful accounts is assessed primarily on analysis of payment histories and future expectations of customer payments, assessment of the future cash flows, known and identified instances of default and consideration of market trends. Bad debts are written off when incurred and recognized as part of other expenses in the statement of comprehensive revenues and expenses.

2.9 Property, plant and equipment

Land is stated at cost less impairment losses. Property and equipment are stated at cost less accumulated depreciation and impairment losses (if any).

Depreciation is charged to expenses in the statement of comprehensive revenues and expenses on a straight-line basis over the estimated useful lives of each part of an item of property, plant and equipment, except for land which is considered to have an unlimited useful life. The estimated useful lives are as follows:

Buildings	10 - 50 years
Building improvements	5 - 30 years
Furniture and fixtures	5 - 20 years
Office equipment	5 - 20 years
Vehicles	5 years

Management determines the estimated useful lives and residual values for the Group's property and equipment. Management will appropriately revise the residual values and useful lives of assets when the residual values and useful lives differ from previous estimations, or it will write-off technically obsolete assets or assets which have been sold or abandoned.

Where the carrying amount of an asset is greater than its estimated recoverable amount, it is written down immediately to its recoverable amount.

Repair and maintenance expenses are charged to the statement of comprehensive revenues and expenses during the financial period in which they are incurred. The cost of major renovation is included in the carrying amount of the asset when it is probable that future economic benefits in excess of the originally assessed standard of performance of the existing asset will flow to the Group. Major renovations are depreciated over the remaining useful lives of the related assets.

Gains and losses on disposal are determined by comparing the proceeds with the carrying amount and are included in the statement of comprehensive revenues and expenses.

2.10 Borrowings

Borrowings are recognized initially at fair value, net of transaction cost incurred Borrowings are subsequently stated at amortised cost; any difference between proceeds (net of transaction costs) and the redemption value is recognized in revenues or expenses over the period of the borrowings using the effective yield method.

2.11 Intangible assets

Intangible assets, computer software, patent and right in operation, that are acquired by the Group, which have finite useful lives, are recognized at cost less accumulated amortization and impairment losses. Intangible assets are amortized in the statement of comprehensive revenues and expenses on a straight-line basis over their estimated useful lives from the date that they are available for use. The estimated useful lives are 2 - 10 years.

Costs associated with developing or maintaining computer software are recognized as expenses as incurred in the statement of comprehensive revenues and expenses. Costs that are directly associated with identifiable and unique software products controlled by the Group and have probable economic benefits exceeding the cost beyond one year are recognized as intangible assets. Direct costs include the purchase price and an appropriate portion of relevant overheads to allow such asset to be ready for its intended use. Expenditure which is incurred to enhance or extend the performance of computer software beyond its original specifications is recognized as an intangible asset.

Management determines the estimated useful lives of intangible assets. Management will revise the amortisation charge where useful lives differ from the previous estimations or it will write-off technically obsolete assets or assets which have been sold or abandoned.

2.12 Impairment

Assets that have an indefinite useful life are not subject to amortisation and are tested annually for impairment. Assets that are subject to amortisation are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. An impairment loss is recognized for the amount by which the carrying amount of the assets exceeds its recoverable amount. The recoverable amount is the higher of an asset's fair value less costs to sell and value in use. For the purposes of assessing impairment, assets are grouped at the lowest level for which there are separately identifiable cash flows. Non-financial assets that suffered an impairment are reviewed for possible reversal of the impairment at each reporting date. 2.13 Interest-bearing liabilities

Interest-bearing liabilities are recognized initially at fair value less attributable transaction charges. Subsequent to initial recognition, interest-bearing liabilities are stated at amortized cost with any difference between cost and redemption value being recognized in the statement of comprehensive revenues and expenses over the period of the borrowings on an effective interest basis.

2.14 Trade and other payables

Trade and other payables are stated at cost.

- 2.15 Employee benefits obligation
 - 1) Short-term benefits

The Group recognizes salaries, wages, bonuses, contributions to the social security fund and cumulative annual leave as expenses when incurred.

2) Contributions to provident fund

The Group operates a provident fund, being a defined contribution plan. The assets of which are held in a separate trustee-administered fund. The provident fund is funded by payments from employees and by the Group. The Group's contributions to provident fund are charged to expenses in the statement of comprehensive revenues and expenses in the period to which the contributions relate.

3) Retirement benefits and other benefits

Employee benefits that will be paid upon retirement usually depends on one or more factors such as age of employees, years of service and compensation. In addition, the Group provides other long-term employee benefit plans, namely long service awards.

The liability recognized in the statement of financial position in respect of defined benefit retirement plans is the present value of the defined benefit obligation at the end of the reporting period less the fair value of plan assets. The defined benefit obligation is calculated by independent actuaries using the projected unit credit method. The present value of the defined benefit obligation is determined by discounting the estimated future cash outflows using market yield of government bonds that are denominated in the currency in which the benefits will be paid, and that have terms to maturity approximating to the terms of the related retirement liability. The Group reviews the assumptions used annually.

Remeasurement gains and losses arising from experience adjustments and changes in actuarial assumptions are charged or credited to the Fund in other comprehensive revenues and expenses in the period in which they arise.

Past service cost are recognized immediately in revenues and expenses.

Past service cost related to the plan amendment is recognized as an expense in the statement of revenues and expenses when the plan amendment is effective.

4) Termination benefits

Termination benefits are payable when employment is terminated by the Group before the normal retirement date, or whenever an employee accepts voluntary redundancy in exchange for these benefits. The Group recognizes termination benefits when it is demonstrably committed to either: terminating the employment of current employees according to a detailed formal plan without possibility of withdrawal; or providing termination benefits as a result of an offer made to encourage voluntary redundancy. Benefits falling due more than 12 months after the end of the reporting period are discounted to their present value.

2.16 Provisions

Provisions are recognized when the Group has a present legal or constructive obligation as a result of past events; it is probable that an outflow of resources will be required to settle the obligation; and the amount has been reliably estimated. Provisions are not recognized for future operating losses.

Where there are a number of similar obligations, the likelihood that an outflow will be required in settlement is determined by considering the class of obligations as a whole. A provision is recognized even if the likelihood of an outflow with respect to any one item included in the same class of obligations may be small.

Provisions are measured at the present value of the expenditures expected to be required to settle the obligation using a pre-tax rate that reflects current market assessments of the time value of money and the risks specific to the obligation. The increase in the provision due to passage of time is recognized as interest expense.

2.17 Lease - where a Group is the lessee

Leases of assets under which all the risks and benefits of ownership are effectively retained by the lessor are classified as operating leases.

Payments made under operating leases are recognized in the statement of comprehensive revenues and expenses on a straight-line basis over the term of the lease. Lease incentives granted are recognized in the statement of comprehensive revenues and expenses as an integral part of the total rental income. Contingent rentals are charged to the statement of comprehensive revenues and expenses for the accounting period in which they are incurred.

When an operating lease is terminated before the lease period has expired, any payment required to be made to the lessor by way of penalty is recognized as an expense in the period in which termination takes place.

2.18 Revenue

For the year ended December 31, 2019, the Group's change the basis according to the adoption of TFRS No. 15 "Revenue from Contracts with Customers". Therefore, the accounting policy for revenue recognition for the year ended December 31, 2019 and 2018 were contrast as below.

For the year ended December 31, 2019

Trading fees, initial securities registrar fees, initial listing fees, clearing and settlement fees, member services fees, initial of information service fees, depository fees, initial customization and IT support fees, initial membership fees and initial fund service fees is recognized revenue when the entity has fulfilled the obligations to be completed.

Annual stock registrar fees, annual listing fees, member service fees by overtime, information service fees by overtime, customization and IT support fees by overtime, annual membership fees and fund service fees by overtime is recognized revenue according to the obligations that must be completed throughout the period.

Interest income is recognized on a time proportion basis, taking into account the principal outstanding and the effective rate over the period to maturity, when it is determined that such income will accrue to the Group.

Dividend income is recognized in the statement of comprehensive revenues and expenses when the Group's right to receive payment is established.

Other income is recognized when the right to receive cash is established.

For the year ended December 31, 2018

Service income is recognized upon performance of services.

Membership fees comprise initial and annual fees. The initial fees are recognized as revenue in the commencing day on which the service is rendered. Annual fees are recognized on a time proportion basis.

2.19 Expense

Expense is recognized in the statement of comprehensive revenues and expenses on an accrual basis.

2.20 Directors' remuneration

Directors' remuneration comprises the benefits paid to the Board of Governors of SET and the Board of Directors of subsidiaries including benefits received by the members of sub-committees (excluding salaries, bonus and related benefits payable to management).

2.21 Current and deferred income taxes

The tax expense for the period comprises current and deferred tax. Tax is recognized in revenue or expense, except to the extent that it relates to items recognized in other comprehensive revenues and expenses or directly in fund balance. In this case the tax is also recognized in other comprehensive revenues and expenses or directly in fund balance, respectively.

The current income tax charge is calculated on the basis of the tax laws enacted or substantively enacted at the end of reporting period. Management periodically evaluates positions taken in tax returns with respect to situations in which applicable tax regulation is subject to interpretation. It establishes provisions where appropriate on the basis of amounts expected to be paid to the tax authorities.

Deferred income tax is recognized, using the liability method, on temporary differences arising from differences between the tax base of assets and liabilities and their carrying amounts in the financial statements. Deferred income tax is determined using tax rates (and laws) that have been enacted or substantially enacted by the end of the reporting period and are expected to apply when the related deferred income tax asset is realized or the deferred income tax liability is settled.

Deferred income tax assets are recognized only to the extent that it is probable that future taxable profit will be available against which the temporary differences can be utilised.

Deferred income tax assets and liabilities are offset when there is a legally enforceable right to offset current tax assets against current tax liabilities and when the deferred income tax assets and liabilities relate to income taxes levied by the same taxation authority on either the same taxable entity or different taxable entities where there is an intention to settle the balances on a net basis.

2.22 Segment reporting

Operating segments are reported in a manner consistent with the internal reporting provided to the Group's senior management.

3. CRITICAL ACCOUNTING ESTIMATES, ASSUMPTIONS AND JUDGMENTS

Use of management's judgements and key sources of estimation uncertainty

3.1 Management's judgements in applying accounting policies

The preparation of financial statements in conformity with Thai Financial Reporting Standards requires the Group's management to exercise various judgements in applying accounting policies that can significantly affect the recognition and disclosures in the financial statements. Significant judgements in applying accounting policies are as follows:

Allowance for doubtful accounts

Detail of the allowance for doubtful is set out in Note 2.8.

Impairment

Detail of the impairment of asset is set out in Note 2.12.

Employee benefits obligation

Details of the employee benefits obligation are set out in Notes 2.15 and 23.

Provisions

Detail of the provisions is set out in Note 2.16.

Deferred tax

Details of the deferred tax are set out in Notes 2.21 and 20.

3.2 Key sources of estimation uncertainty

The Company has estimates with the assumptions concerning the future. Although these estimates are based on management's reasonable consideration of current events, actual results may differ from these estimates. The estimates and assumptions that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year are outlined below.

Fair value measurements and valuation processes

Fair value measurements are for information disclosure purposes

The Group regularly review significant unobservable inputs and valuation adjustments. If third party information is used to measure fair values, then the Group assess the evidence obtained from the third parties to support the conclusion that such valuations meet the requirements of TFRS 13, including the level in the fair value hierarchy.

When measuring the fair value of an asset or a liability, the Group use market observable data as the first priority. Fair values are categorized into different levels in a fair value hierarchy based on the inputs used in the valuation techniques for fair value measurement as follows:

- Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities that the entity can access at the measurement date.
- Level 2 inputs are inputs, other than quoted prices included within Level 1, which are observable for the asset or liability, either directly or indirectly.
- Level 3 inputs are unobservable inputs for the asset or liability.

4. FINANCIAL RISK MANAGEMENT

4.1 Financial risk factors

The Group's activities expose it to a variety of financial risks: currency risk, fair value interest rate risk and cash flow interest rate risk, credit risk, liquidity risk and risk from investments and deposits. The Group's financial risk management programme focuses on investment management under investment policies and strategic asset allocation which is approved by SET's Board of Governors and subsidiaries' Board of Director. The investment committees are strictly established to oversee the investment in compliance with the policies and strategic asset allocation defined. The investment policy aims on maintaining stability of the principal, liquidity and return on the appropriate level of risk.

1) Foreign exchange risk

The Group has no significant exposure to foreign currency risk relates due to its accounts receivable and accounts payable are mainly made in Thai Baht, except for investments in some foreign mutual funds which is in foreign currency. The Group has appropriately applied forward exchange contracts to hedge foreign exchange risk of such investments.

2) Interest rate risk

Interest rate risk arises from fluctuations in market interest rates which may affect the Group's operating results and cash flow. The Group does not have interest rate derivative in order to manage fluctuation of the interest rate.

3) Credit risk

The Group has no significant concentrations of credit risk. The Group has appropriate policies in place to ensure that the Group provides services to customers who have appropriate credit history.

4) Liquidity risk

The Group has no significant exposure to liquidity risk as the Group has sufficient cash to support its operations. The Group aims on maintaining flexibility of funding by using internal capital of the Group.

5) Risk from investments and deposits

Investments in debt securities

The Group is exposed to market risks as the investor of financial instruments, and credit risk from the issuer of financial instruments. The Group, therefore, has a policy of diversifying its investments and deposits to high credit financial institutions according to the investment policy prescribed by the resolution of the investment committee.

The investment policies framework regarding types and proportion of investments are as follows:

Investments in debt securities			
Type of investment	Proportion of investment		
Government securities, debentures or bonds of state enterprises or entities incorporated by specific laws and guaranteed by the Ministry of Finance	Unlimited		
Fixed deposits or NCDs at commercial banks and promissory notes of finance companies or financial institutions incorporated by specific laws	Not to exceed 15% of total debt investment per institution		
Debentures or warrants of debentures and bills of exchange	Not to exceed 5% of total debt investment per issuer		
Investment units or warrants of investment units in mutual funds invested in debt securities	Not to exceed 10% of total debt investment per mutual fund		
Investments in domestic equity securities			
Type of investment	Proportion of investment		
Investment units or warrants of investment units in mutual funds invested in equity securities	Not to exceed 10% of total equity investment per each Fund, and not to exceed 10% of fund size		
Investments in property funds			
Investments in property funds Type of investment	Proportion of investment		
	Proportion of investment Not to exceed 10% of fund size per each Fund, except for Fund of Property Funds, not to exceed 20% of fund size		
Type of investment	Not to exceed 10% of fund size per each Fund, except for Fund of Property Funds,		
Type of investment Property funds	Not to exceed 10% of fund size per each Fund, except for Fund of Property Funds,		
Type of investment Property funds Investments in foreign investment funds	Not to exceed 10% of fund size per each Fund, except for Fund of Property Funds, not to exceed 20% of fund size		
Type of investment Property funds Investments in foreign investment funds Type of investment	Not to exceed 10% of fund size per each Fund, except for Fund of Property Funds, not to exceed 20% of fund size Proportion of investment - Foreign investment funds in Thailand;		
Type of investment Property funds Investments in foreign investment funds Type of investment	 Not to exceed 10% of fund size per each Fund, except for Fund of Property Funds, not to exceed 20% of fund size Proportion of investment Foreign investment funds in Thailand; not to exceed 30% of fund size Direct investment in Mutual Fund in Foreign and Exchange Traded Fund "ETF": not to exceed 10% of all foreign equity value per each fund (2018: Direct investment in Mutual Fund and ETF: not to exceed 10% of foreign equity value per 		

Type of investment

Absolute Return Strategy funds

Proportion of investment

- Not to exceed 25% of the initial investment amount in Absolute Return per each fund

Investments in gold funds

Type of investment	Proportion of investment
Gold funds	Not to exceed 10% of fund size per mutual fund

Investments in each asset management company should not exceed 40% of total investments.

4.2 Accounting for derivative financial instruments and hedging activities

Foreign currency forward contracts protect the Group from movements in exchange rates. The Group enters into contract establishing the rate at which a foreign currency asset will be realized or a foreign currency liability will be settled in the future. The Group recognise foreign currency forward contracts transaction in the financial statements in fair value measurement. The unrealized gain (loss) from fair value measurement of foreign currency forward contracts will be included in unrealized gain (loss) on exchange rate in the statements of comprehensive revenues and expenses.

Disclosures about derivative financial instruments to which the Group is a party are provided in Note 37.

5. CAPITAL RISK MANAGEMENT

The Group's objectives when managing capital are to safeguard the Subsidiaries in the Group's ability to continue as a going concern in order to provide returns for shareholders and benefits for other stakeholders and to maintain an optimal capital structure to increase investor and stakeholder confidence.

In order to maintain or adjust the capital structure, the subsidiaries in the Group may adjust the amount of dividends paid to shareholders depending on their operating performance.

6. SEGMENT INFORMATION

Segment information is presented in respect of the Group's business segments. The primary format, business segments, is based on the Group's management and internal reporting structure.

The Group comprises the following 5 main business segments:

- 1) Securities Markets (including securities trading, clearing and settlement, listing, depository and membership fees)
- 2) Derivatives Markets (including trading and clearing of future contracts and membership fees)
- 3) Technology Services (including member services, information services and technology support)
- 4) Registrar Services (including securities registrar)

5) Capital Market Development and others, i.e., rental income and other miscellaneous income. Capital Market Development including capital market education improving financial and investment capabilities, promoting sustainable development of capital market industry and conducting of capital market research.

Financial information presented in the consolidated financial statements as at December 31, 2019 and 2018 and for the years ended December 31, 2019 and 2018 are as follows:

						(Unit : T	Thousand Baht)
	Consolidated Financial Statements						
					Capital		
					Market		
	Securities	Derivatives	Technology	Registrar	Development		
	Markets	Markets	Services	Services	and others	Elimination	Total
For the year ended December 31, 2019							
Revenues from operation	3,052,745	1,020,689	684,848	1,226,040	353,523	-	6,337,845
Revenue from inter-segment	707,417	501,619	79,415	566,721	75,765	(1,930,937)	-
Total revenue	3,760,162	1,522,308	764,263	1,792,761	429,288	(1,930,937)	6,337,845
Segment revenues over expenses	1,195,706	382,197	381,245	366,746	(204,869)	-	2,121,025
Investment income, net							947,954
Share of profit of investments in							
joint venture entity, net of tax							7,248
Share of profit of investments in							
associates, net of tax							38,135
Revenues over expenses in operations							3,114,362
Non-operating revenues (expenses)							
Income derived from Securities Investor							
Protection Fund, net							13,930
Income derived from Derivatives Investor							
Protection Fund, net							848
Transfer money to the Capital Market							
Development Fund							(5,700,000)
Reversal of contributions to the Stock							
Exchange of Thailand Foundation							186,132
Revenues under expenses before							
income tax expenses							(2,384,728)
Income tax expense							(214,271)
Revenues under expenses							(2,598,999)
As at December 31, 2019							
Segment assets	4,131,925	27,709,288	895,417	690,872	254,054	(5,944,386)	27,737,170
Other assets	-	-	-	-	20,675,624	(3,418,600)	17,257,024
Total assets	4,131,925	27,709,288	895,417	690,872	20,929,678	(9,362,986)	44,994,194
Segment liabilities	1,676,534	21,474,802	238,203	482,867	648,225	(5,944,386)	18,576,245
Other liabilities	-	-	-	-	1,918,713	(1,918,713)	-
Total liabilities	1,676,534	21,474,802	238,203	482,867	2,566,938	(7,863,099)	18,576,245

(Unit : Thousand Baht)

	Consolidated Financial Statements						
					Capital		
					Market		
	Securities	Derivatives	Technology	Registrar	Development		
	Markets	Markets	Services	Services	and others	Elimination	Total
For the year ended December 31, 2018							
Revenues from operation	3,107,109	957,548	592,399	1,120,937	214,361	-	5,992,354
Revenue from inter-segment	810,061	426,274	92,044	500,202	27,006	(1,855,587)	-
Total revenue	3,917,170	1,383,822	684,443	1,621,139	241,367	(1,855,587)	5,992,354
Segment revenues over expenses	1,240,378	578,592	196,337	341,708	(342,746)		2,014,269
Investment income, net							586,185
Share of loss of investments in							
joint venture entity , net of tax							(30,933)
Share of profit of investments in							
associates, net of tax							39,563
Revenues over expenses in operations							2,609,084
Non-operating revenues (expenses)							
Income derived from Securities Investor							
Protection Fund, net							9,937
Income derived from Derivatives Investor							
Protection Fund, net							686
Contributions to the Stock Exchange							
of Thailand Foundation							(186,132)
Revenues over expenses before							
income tax expenses							2,433,575
Income tax expense							(478,662)
Revenues over expenses						,	1,954,913
As at December 31, 2018	4 000 104	20.027.075	021 200	742.044	160.000	(5, (5, (0, 5, ()	20 504 250
Segment assets	4,008,194	29,027,065	921,289	743,866	460,892	(5,656,956)	29,504,350
Other assets				-	24,579,501	(5,313,183)	19,266,318
Total assets	4,008,194	29,027,065	921,289	743,866	25,040,393	(10,970,139)	48,770,668
Segment liabilities	1,503,384	23,093,450	226,649	443,766	495,111	(5,656,956)	20,105,404
Other liabilities	-		-	-	3,783,500	(3,783,500)	-
Total liabilities	1,503,384	23,093,450	226,649	443,766	4,278,611	(9,440,456)	20,105,404
	1,000,004	20,070,100	220,017	115,750	1,270,011	(2,110,150)	_0,100,101

	Conso Financial	(Unit : Thousand Baht) Consolidated Financial Statements		
	2019	2018		
Assets				
Assets for reportable segments	27,737,170	29,504,350		
Unallocated amounts:				
- Cash and investments	15,185,428	17,234,806		
- Short-term loans to a joint venture entity	-	7,500		
- Investments in related parties	988,420	968,228		
- Accrued interest receivables	31,298	21,177		
- Land and work in process	1,051,878	1,034,607		
Total assets	44,994,194	48,770,668		
Liabilities				
Liabilities for reportable segments	18,576,245	20,105,404		
Total liabilities	18,576,245			

Reconciliation of reportable segment assets/liabilities were as follows:

7. TRANSACTIONS WITH RELATED PARTIES

Transaction

Enterprises and individuals that directly, or indirectly through one or more intermediaries, control, or are controlled by, or are under common control with, the entity, including holding companies, subsidiaries and fellow subsidiaries are related parties of the entity. Associates and individuals owning, directly or indirectly, an interest in the voting power of the entity that gives them significant influence over the enterprise, key management personnel, including directors and officers of the company and close members of the family of these individuals and companies associated with these individuals also constitute related parties.

In considering each possible related party relationship, attention is directed to the substance of the relationship, and not merely the legal form.

Transactions with related parties are conducted at prices based on market prices or at contractually agreed prices where no market price exists.

The pricing policies for particular types of transactions are explained below:

Service income	Cost plus margin
Purchase of services	Cost plus margin
Interest income	With reference to the return of bank deposit and debt securities
Interest expense	The interest rate on the loan is based on the floating market interest rate which is referred to the higher interest rate for one-year government bond or one-year fixed deposit on average of 4 banks for corporate credit line of Baht 10 million

Pricing policy

		Consolidated Financial Statements		(Unit : Thousand Baht) Separate Financial Statements	
	2019	2018	2019	2018	
Service income					
Subsidiaries	-	-	1,778,466	1,711,474	
Joint venture entity	7	15,807	7	14,607	
Associates	1,680	1,680	-	-	
	1,687	17,487	1,778,473	1,726,081	
Purchase of services					
Subsidiaries	_	_	13,407	1,993	
Joint venture entity	-	94,320	-	93,120	
		94,320	13,407	95,113	
• / /•					
Interest income					
Subsidiaries	-	-	170,388	90,437	
Joint venture entity	41	8	41	8	
	41	8	170,429	90,445	
Interest expense					
Subsidiaries	-	-	36,569	51,360	
	-	-	36,569	51,360	

Related party transactions for the years ended December 31, 2019 and 2018 were as follows:

Related party balances as at December 31, 2019 and 2018 were as follows:

	Consolidated Financial Statements		Separ	Statements	
	2019	2018	2019	2018	
Accounts receivable					
Joint venture entity	$\frac{2}{2}$	598	2	598	
	2	598	2	598	
Accrued income					
Subsidiaries	-	-	163,490	172,801	
Joint venture entity	-	443	-	443	
Associates	140	140	-	-	
	140	583	163,490	173,244	
Accrued interest receivable					
Subsidiaries	_	-	164,825	86,323	
Joint venture entity	-	8	-	8	
		8	164,825	86,331	
Other current assets			,	,	
Joint venture entity	_	441	_	441	
Joint venture entity		441		441	
	·				
Accounts payable				104	
Subsidiaries	-	-	-	124	
Joint venture entity	-	6,746		<u>6,746</u> 6,870	
		0,740		0,870	
Accrued expenses					
Subsidiaries			11,641	184	
			11,641	184	
Fees received in advance					
Subsidiaries	-	-	2,585	3,165	
	-	-	2,585	3,165	
Other current liabilities					
Joint venture entity	_	1,339	_	1,339	
		1.339		1,339	
		1,007		1,007	

Short-term loans to a joint venture entity

	Interest rate (% per annum)		Consolidated	(Unit : Thousand Baht) Consolidated and Separate Financial Statements	
	2019	2018	2019	2018	
Short-term loans to a joint venture entity	-	5.75		7,500	

SET lent to a joint venture entity to enhance the liquidity during the dissolution of the joint venture. The loan is in the form of non-convertible promissory notes, which the redemption is on demand.

Movements of short-term loans to a joint venture entity for the years ended December 31, 2019 and 2018 were as follows:

	(Unit : Thousand Baht) Consolidated and Separate Financial Statements		
	2019	2018	
A joint venture entity			
Opening balance	7,500	-	
Additions	-	7,500	
Repayments	(7,500)	-	
Closing balance	-	7,500	

Long-term loans to a subsidiary

Long-term loans to a subsidiary as at December 31, 2019 and 2018

	(Unit : Thousand Baht) Separate		
	Financial Statements 2019 2018		
Long-term loans to a subsidiary	5,440,834	5,240,834	

SET lent to a subsidiary to use as a reserve fund to enhance the competitiveness and support the future business expansion. The rate of return on loan is referred to the net return of a private fund plus 0.30% - 0.50% per annum of principle balance. The rate of return will be reviewed on an annual basis (see Note 19).

	Sepa	(Unit : Thousand Baht) Separate Financial Statements		
	2019	2018		
A subsidiary				
Opening balance	5,240,834	5,046,791		
Additions	200,000	200,000		
Repayments	-	(5,957)		
Closing balance	5,440,834	5,240,834		

Movements of long-term loans to a subsidiary for the years ended December 31, 2019 and 2018 were as follows:

Short-term borrowings from subsidiaries

Short-term borrowings from subsidiaries as at December 31, 2019 and 2018

	Intere	st rate		housand Baht) arate
	(% per annum)		Financial Statements	
	2019	2018	2019	2018
Short-term borrowings from subsidiaries	0.80 - 1.81	1.33 - 1.80	1,918,713	3,783,500

The Group has a policy of centralising the investments and managed by SET in order to maximize its efficiency and overall returns. The parent will borrow from its subsidiaries in the form of one-year promissory notes. The interest rate on the loan is based on the floating market interest rate which is referred to the higher interest rate for one-year government bond or one-year fixed deposit on average of 4 banks for corporate credit line of up to Baht 10 million (interest rate may be revised as appropriate).

Movements of short-term borrowings from subsidiaries for the years ended December 31, 2019 and 2018 were as follows:

	(Unit : Thousand Baht) Separate Financial Statements		
	2019 2018		
Subsidiaries			
Opening balance	3,783,500	2,921,500	
Additions	458,713	1,226,000	
Repayments	(2,323,500)	(364,000)	
Closing balance	1,918,713	3,783,500	

Sponsorship for joint venture entity

Under the shareholder agreement between SET and a Company, SET will be a principal sponsor of a joint venture's program that dissolution was registered on December 26, 2018. Therefore no financial support has been provided to a joint venture entity in 2019 (2018: Baht 90 million).

Contributions to the Stock Exchange of Thailand Foundation (Foundation)

SET realizes the importance of corporate social responsibility (CSR) alongside the core business. To grow the business sustainably, the corporation must be CSR-minded and must put into practice basis, SET has established the Foundation to support outstanding CSR projects that greatly benefit the society and the country as a whole.

The Foundation was established on August 9, 2006. SET's Board of Governors are also the committee members of the foundation, by position. The Foundation supports two key CSR areas; 1) Increasing the potential in human 2) Increasing the potential of organizations and communities.

SET allocated its annual revenues over expenses to support the implementation of the Foundation. Since 2006, SET appropriated one-third of revenues over expenses. On August 9, 2016, an adjustment was made to allocate 13% of revenues over expenses before income tax.

On July 24, 2019, SET's Board of Governors has resolved to cancel the allocation of funds to the Stock Exchange of Thailand Foundation which will be effective for revenue over expense before income tax expense of the fiscal year 2018 onwards. However, if the Foundation request for contributions, SET may consider allocating funds to the Foundation from time to time as appropriate.

Therefore, SET reversed an accrued contribution to the Foundation in 2018 of Baht 186.13 million for the year ended December 31, 2019 (2018: Contributions to the Foundation Baht 186.13 million).

Directors' remuneration

The directors' remuneration represents director fees and compensation fees for the Group's board of directors and other sub-committees for the years ended December 31, 2019 and 2018.

	Consolidated Financial Statements		Separ	Thousand Baht) parate Statements	
	2019	2018	2019	2018	
Directors' remuneration	27,714	27,252	24,200	23,692	
	27,714	27,252	24,200	23,692	

8. CASH AND CASH EQUIVALENTS

Cash and cash equivalents as at December 31, 2019 and 2018

1		lidated Statements	(Unit : Th Sepai Financial S	
	2019	2018	2019	2018
Cash on hand	322	330	319	327
Savings and current accounts	2,329,036	1,118,265	2,092,417	948,442
	2,329,358	1,118,595	2,092,736	948,769

For the year ended December 31, 2019, savings accounts carried the interest at rates ranging from 0.10% - 1.30% per annum (2018: from 0.10% - 1.10% per annum).

9. SHORT-TERM INVESTMENTS, NET

Short-term investments, net as at December 31, 2019 and 2018

		lidated Statements	Sepa	Unit: Thousand Baht Separate Financial Statement			
	2019	2018	2019	2018			
Investments managed by SET							
Trading securities	Fair value	Fair value	Fair value	Fair value			
Government bond	1,404,201	-	505,921	-			
	1,404,201		505,921	-			
Available-for-sale securities	Fair value	Fair value	Fair value	Fair value			
Investments in money market funds	1,275,060	3,190,697	1,275,060	3,190,697			
	1,275,060	3,190,697	1,275,060	3,190,697			
Held-to-maturity investments	Amortized Cost, net	Amortized Cost, net	Amortized Cost, net	Amortized Cost, net			
Fixed deposit maturities within 1 year	700,000	887,540	700,000	887,540			
Debenture maturities within 1 year	-	10,000	-	10,000			
	700,000	897,540	700,000	897,540			
Total investments managed by SET	3,379,261	4,088,237	2,480,981	4,088,237			
Investments managed by private funds							
Trading securities	Fair value	Fair value	Fair value	Fair value			
Share capital	702	702	702	702			
Government bond	1,354,362	2,477,345	54,241	2,477,345			
Debenture	637,539	730,861	637,539	730,861			
	1,992,603	3,208,908	692,482	3,208,908			
Held-to-maturity investments	Fair value	Fair value	Fair value	Fair value			
Savings account	11,693	1,731	9,732	1,731			
Fixed deposit maturities within 1 year	-	300,000	-	300,000			
Negotiable certificate of deposit (NCD)		240,000	-	240,000			
	11,693	541,731	9,732	541,731			
Total Investments managed by							
private funds	2,004,296	3,750,639	702,214	3,750,639			
Total short-term investments, net	5,383,557	7,838,876	3,183,195	7,838,876			

Movements of short-term investments for the years ended December 31, 2019 and 2018 were as follows:

	0.0110.0	lidated Statements	(Unit : Thousand Baht) Separate Financial Statements		
	2019	2018	2019	2018	
Opening balance	7,838,876	6,649,894	7,838,876	6,649,894	
Purchases	2,472,237	3,018,708	271,875	3,018,708	
Disposals	(4,904,849)	(2,044,831)	(4,904,849)	(2,044,831)	
Current portion of long-term investments	-	897,540	-	897,540	
Classification of investments (see Note14) Unrealized gain (loss) on available-for-sale	-	(696,445)	-	(696,445)	
securities	(22,707)	14,010	(22,707)	14,010	
Closing balance	5,383,557	7,838,876	3,183,195	7,838,876	

10. TRADE AND OTHER RECEIVABLES

Trade and other receivables as at December 31, 2019 and 2018

	Note	Consol Financial S 2019	lantea	(Unit : Th Separ Financial S 2019	
Trade receivable	Note	2019	2010	2019	2010
	7	2	598	2	598
Related parties	/	-		-	
Other parties	-	84,787	66,756	50,502	30,224
		84,789	67,354	50,504	30,822
Less Allowance for doubtful accounts	_	(16,891)	(15,128)	(8,568)	(5,024)
	_	67,898	52,226	41,936	25,798
Other receivable					
Accrued income					
Related parties	7	140	583	163,490	173,244
Other parties		299,732	274,472	101,207	89,867
Cash at banks for dividend accounts		,	,	,	,
of investors		89,032	84,042	-	-
Other receivables from sale of			,		
investments		_	150,000	-	150,000
Accrued interest receivable			150,000		150,000
Related parties		_	8	164,825	86,331
Other parties		31,297	21,169	23,563	19,790
1		27,213	,	,	,
Prepaid expense		,	26,104	27,213	26,104
Others	-	3,441	3,311	2,948	2,465
	_	450,855	559,689	483,246	547,801
	_	518,753	611,915	525,182	573,599

Aging analysis for trade receivable are as follows:

		lidated Statements	(Unit : Thousand Baht) Separate Financial Statements		
Not	e 2019	2018	2019	2018	
Related parties 7					
Within credit terms	2	174	2	174	
Overdue:					
Less than 3 months	-	424	-	424	
	2	598	2	598	
Other parties					
Within credit terms	54,114	36,475	29,201	11,154	
Overdue:					
Less than 3 months	13,782	12,614	12,733	11,822	
3 - 6 months	906	2,073	906	1,923	
6 - 12 months	1,853	153	1,853	149	
Over 12 months	14,132	15,441	5,809	5,176	
	84,787	66,756	50,502	30,224	
Less Allowance for doubtful accounts	(16,891)	(15,128)	(8,568)	(5,024)	
	67,896	51,628	41,934	25,200	
	67,898	52,226	41,936	25,798	

The normal credit terms granted by the Group range from 15 days to 30 days.

11. OTHER CURRENT ASSETS

Other current assets as at December 31, 2019 and 2018

	Consoli		(Unit : Thousand Baht) Separate		
	Financial St 2019	atements 2018	Financial Statements 2019 2018		
	2019	2018	2019	2018	
Withholding tax receivable	160,479	23,592	131,523	-	
Loans to employees	30,242	27,114	30,242	27,114	
Accounts receivable from net fair values					
of forward exchange contracts	10,673	22,709	10,673	22,709	
Inventory - publication	4,666	5,107	4,666	5,107	
Pending input tax	4,612	4,619	4,573	4,405	
Value added tax receivable	3,662	7,997	-	-	
Others	3,171	3,188	3,172	3,188	
	217,505	94,326	184,849	62,523	

12. INVESTMENTS IN SUBSIDIARIES

Investments in subsidiaries as at December 31, 2019 and 2018, and dividend income for the years then ended were as follows:

							(Unit : T	housand Baht)
				S	eparate Finan	cial Statement	s	
	Ownership	interest (%)	Paid-uj	o capital	Cost 1	nethod	Dividend	l income
	2019	2018	2019	2018	2019	2018	2019	2018
Subsidiaries								
Thailand Securities Depository Co., Ltd.	100.00	100.00	200,000	200,000	200,000	200,000	252,294	223,556
Thai Trust Fund Management Co., Ltd.	100.00	100.00	100,000	100,000	100,000	100,000	185	332
Thai NVDR Co., Ltd.	100.00	100.00	10,000	10,000	10,000	10,000	-	494
SETTRADE.COM Co., Ltd.	100.00	100.00	80,000	80,000	74,591	74,591	204,783	-
Thailand Futures Exchange Public Company Limited	100.00	100.00	500,000	500,000	500,000	500,000	121,645	51,015
Thailand Clearing House Co., Ltd.	100.00	100.00	600,000	600,000	602,700	602,700	76,872	30,504
Finnet Innovation Network Co., Ltd.	100.00	100.00	200,000	200,000	200,000	200,000	-	-
Live Fin Corp Co., Ltd.	100.00	100.00	10,000	10,000	10,000	10,000	-	-
-		=	1,700,000	1,700,000	1,697,291	1,697,291	655,779	305,901

The business place of all subsidiaries is in Thailand and the nature of business of each subsidiary has already disclosed in Note 1.

13. INVESTMENTS IN ASSOCIATES AND JOINT VENTURE ENTITY, NET

The amounts recognized in the statement of financial position as at December 31, 2019 and 2018 are as follows:

	Consoli Financial St Equity n	tatements	(Unit : Thousand Baht) Separate Financial Statements Cost method		
	2019	2018	2019	2018	
Associates	966,875	940,930	779,015	775,620	
Joint venture entity	21,545	27,298	12,000	25,000	
As at December 31,	988,420	968,228	791,015	800,620	

The amounts recognized in the statement of comprehensive revenues and expenses are share of profit (loss) of investments in associates and joint venture entity, net of tax are as follows:

	Consoli Financial St Equity n	tatements	(Unit : Thousand Bah Separate Financial Statements Cost method		
	2019	2018	2019	2018	
Associates	38,135	39,563	-	-	
Joint venture entity	7,248	(30,933)	-	-	
For the years ended December 31,	45,383	8,630	-	-	

a) Investment in associates

Set out below are the associates of the Group as at December 31, 2019 and 2018, which are not material to the Group. The associates as listed below have share capital consisting solely of ordinary shares, which are held directly by the Group.

											(Unit : T	housand Baht)
							0	Consolidated Finan	cial Statements			
		Ownershi	ip interest (%))	Paid-up cap	oital	Cost me	thod	Equity m	ethod	Dividend i	ncome
		2019	2018	3	2019	2018	2019	2018	2019	2018	2019	2018
Associates		0.50	0.40		2 204 070	2 1 40 (22	100.000	100.000	205.007	201.550		
Clearing Fund ("CLF") TSFC Securities Public Compa	ny Limited	8.59	9.42		2,396,979	2,140,622	100,000	100,000	205,897	201,559	-	-
("TSFC")	ily Lillited	40.65	40.65	5	1,549,126	1,549,126	679,015	675,620	760,978	739,371	-	-
()					-,, ,		779,015	775,620	966,875	940,930	-	-
											(Unit • T	housand Baht)
							Separate	Financial Statemer	nts		(0111.11	nousanu Dant)
	Ownership	interest (%)	Paid-u	p capital	Cost	method		irment	At cost	, net	Dividend	income
	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018
Associates												
Clearing Fund ("CLF")	8.59	9.42	2,396,979	2,140,622	100,000	100,000	-	-	100,000	100,000	-	-
TSFC Securities Public												
Company Limited ("TSFC")	40.65	40.65	1,549,126	1,549,126	679,015	679,015		(3,395)	679,015	675,620	15,743	12,595
					779,015	779,015	-	(3,395)	779,015	775,620	15,743	12,595

The business place of all associates is in Thailand and the nature of business of each associate has already disclosed in Note 1.

The Group also has interests in a number of individually associates that are accounted for using the equity method in the consolidated financial statements.

		2019			(Unit : Thousand Bah 2018				
	CLF	TSFC	Total	CLF	TSFC	Total			
Aggregate carrying amount of individually									
immaterial associates	205,897	760,978	966,875	201,559	739,371	940,930			
Aggregate amounts of the reporting entity's share of: Revenues over expenses from									
continuing activities, net of tax	4,337	33,798	38,135	2,030	37,533	39,563			
Other comprehensive revenues and expenses, net of tax	-	158	158	-	(103)	(103)			
Total comprehensive									
revenues and expenses, net of tax	4,337	33,956	38,293	2,030	37,430	39,460			

The Group has no contingent liabilities relating to associates.

b) Investment in joint venture entity

Set out below is a joint venture entity of the Group as at December 31, 2019 and 2018, which are not material to the Group. A joint venture listed below has share capital consisting solely of preferred shares, which is held directly by the Group.

							(Unit : T	housand Baht)
	Ownership	interest (%)	Paid-up		nsolidated Fina Equity 1			l income
	2019	2018	2019	2018	2019	2018	2019	2018
Joint venture entity Family Know-how Co., Ltd. ⁽¹⁾	50.00	50.00	50,000	50,000	21,545	27,298	-	
				S	ananata Finan	a Statements		housand Baht)
	Ownership	interest (0/)	Doid up		eparate Finano Cost m			l income
	2019	interest (%) 2018	Paid-up 2019	2018	2019	2018	2019	2018
Joint vontune entity	2019	2010	2019	2010	2019	2018	2019	2010
Joint venture entity Family Know-how Co., Ltd. ⁽¹⁾	50.00	50.00	50,000	50,000	12,000	25,000	-	2,047

The business place of joint venture entity is in Thailand and the nature of business of each entity has already disclosed in Note 1.

⁽¹⁾ At the Extraordinary Shareholder's meeting no. 1/2018 held on December 14, 2018, the shareholders resolved to dissolve the company. The dissolution was registered with the Ministry of Commerce on December 26, 2018 which is currently in the process of liquidation.

	(Unit : 7 Consol Financial S 2019	
Aggregate carrying amount of joint venture entity	21,545	27,298
Aggregate amounts of the reporting entity's share of: Revenues over expenses from continuing activities,		
net of tax	7,248	(30,933)
Other comprehensive revenues and expenses, net of tax		(758)
Total comprehensive revenue and expenses, net of tax	7,248	(31,691)

The Group also has interests in a joint venture entity that is accounted for using the equity method.

The Group has no contingent liabilities related to joint venture entity.

14. LONG-TERM INVESTMENTS, NET

Long-term investments, net as at December 31, 2019 and 2018

	(U	nit: Thousand Baht)		
	Consolidated and separate			
	Financial statements			
	2019 2018			
Available-for-sale securities	Fair value	Fair value		
Investments in general mutual funds	3,001,150	3,629,189		
Investments in property funds	1,231,033	1,455,010		
Investments in foreign investment funds	2,694,353	2,975,539		
	6,926,536	8,059,738		
Held-to-maturity investments	Amortized Cost, net	Amortized Cost, net		
Cash at banks under a Memorandum				
of Understanding (M.O.U.)	501,153	523,742		
Government bond maturities after 1 year	239,408	242,004		
Debenture maturities after 1 year	200,000	-		
	940,561	765,746		
		G (
General investments	Cost	Cost		
Ordinary shares	36,861	12,361		
	36,861	12,361		
Total long term investments - net	7,903,958	8,837,845		

	(Unit : Thousand Baht) Consolidated and Separate Financial Statements		
	2019 2018		
Opening balance	8,837,845	8,478,268	
Purchases	2,023,880	3,703,981	
Disposals	(3,398,504)	(2,303,330)	
Classification of investments (see Note 9)	-	696,445	
Unrealized gain/(loss) on available-for-sale securities	440,737	(839,979)	
	7,903,958	9,735,385	
Less Current portion within 1 year (see Note 9)	-	(897,540)	
Closing balance	7,903,958	8,837,845	

Movements of long-term investments for the years ended December 31, 2019 and 2018 were as follows:

As at December 31, 2019 and 2018, held-to-maturity investments which were classified by maturity were as follows:

			· · · · · · · · · · · · · · · · · · ·	housand Baht)	
	Consolidated and Separate Financial Statements				
	Within 1 to 5 Over				
	1 year	years	5 years	Total	
	(See Note 9)				
As at December 31, 2019					
Deposits at banks	-	-	501,153	501,153	
Government bonds	-	239,408	-	239,408	
Debentures	-	200,000	-	200,000	
		439,408	501,153	940,561	
As at December 31, 2018					
Deposits at banks	887,540	-	523,742	1,411,282	
Government bonds	-	242,004	-	242,004	
Debentures	10,000	-	-	10,000	
	897,540	242,004	523,742	1,663,286	

As at December 31, 2019 and 2018, the fair value of held-to-maturity investments were as follows:

			(Unit : 7	Thousand Baht)
	Consolid	ated and Separat	te Financial St	atements
	Amortize	d cost, net	Fair	value
	2019	2018	2019	2018
Deposits at banks	501,153	1,411,282	422,062	1,308,358
Government bonds	239,408	242,004	245,774	241,379
Debentures	200,000	10,000	206,414	10,131
	940,561	1,663,286	874,250	1,559,868
Less Current portion within 1 year				
(see Note 9)	-	(897,540)	-	(897,671)
	940,561	765,746	874,250	662,197

15. PROPERTY, PLANT AND EQUIPMENT, NET

					(Unit :	Thousand Baht)
			Consolidated Final	ncial Statements		
			Furniture,			
	Land	Buildings and	fixtures			
	and land	building	and office	Motor	Work	
	improvements	improvements	equipment	vehicles	in process	Total
	mprovements	mprovements	equipment	venicies	in process	1 otal
As at January 1, 2018						
Cost	1,014,097	3,990,700	1,321,750	388	256,150	6,583,085
Less Accumulated depreciation	-	(676,540)	(768,962)	(188)	-	(1,445,690)
Net book amount	1,014,097	3,314,160	552,788	200	256,150	5,137,395
For the year ended						
December 31, 2018						
Opening net book amount	1,014,097	3,314,160	552,788	200	256,150	5,137,395
Additions	-	7,747	30,217	-	152,363	190,327
Disposals/write-off	-	(288)	(439)	-	-	(727)
Depreciation charge	-	(205,587)	(138,912)	(60)	-	(344,559)
Transfer	-	254,167	107,189	-	(361,356)	-
Adjustments	-		-	-	(3,354)	(3,354)
Closing net book amount	1,014,097	3,370,199	550,843	140	43,803	4,979,082
As at December 31, 2018						
Cost	1,014,097	4,252,326	1,458,070	388	43,803	6,768,684
Less Accumulated depreciation	-	(882,127)	(907,227)	(248)	-	(1,789,602)
Net book amount	1,014,097	3,370,199	550,843	140	43,803	4,979,082
For the year ended						
December 31, 2019						
Opening net book amount	1,014,097	3,370,199	550,843	140	43,803	4,979,082
Additions	-	10,985	43,158	1,450	76,578	132,171
Disposals/write-off	-	(79)	(166)	(1,450)	-	(1,695)
Depreciation charge	-	(197,654)	(174,418)	(60)	-	(372,132)
Transfer	-	22,469	57,716	-	(80,185)	-
Adjustments		(221,285)	224,047		(2,415)	347
Closing net book amount	1,014,097	2,984,635	701,180	80	37,781	4,737,773
As at December 31, 2019						
Cost	1,014,097	4,064,289	1,424,648	388	37,781	6,541,203
Less Accumulated depreciation	-	(1,079,654)	(723,468)	(308)	-	(1,803,430)
Net book amount	1,014,097	2,984,635	701,180	80	37,781	4,737,773

(Unit : Thousand Baht)

(Unit : Thousand Baht)

					(Unit : T	'housand Baht)
			Separate Financi	ial Statements		
			Furniture,			
	Land	Buildings and	fixtures			
	and land	building	and office	Motor	Work	
	improvements	improvements	equipment	vehicles	in process	Total
As at January 1, 2018						
Cost	1,014,097	3,990,700	1,278,358	388	256,150	6,539,693
Less Accumulated depreciation	-	(676,540)	(726,460)	(188)	-	(1,403,188)
Net book amount	1,014,097	3,314,160	551,898	200	256,150	5,136,505
For the year ended						
December 31, 2018						
Opening net book amount	1,014,097	3,314,160	551,898	200	256,150	5,136,505
Additions	-	7,747	29,995	-	152,363	190,105
Disposals/write-off	-	(288)	(439)	-	-	(727)
Depreciation charge	-	(205,587)	(138,685)	(60)	-	(344,332)
Transfer	-	254,167	107,189	-	(361,356)	-
Adjustments	-	-		-	(3,354)	(3,354)
Closing net book amount	1,014,097	3,370,199	549,958	140	43,803	4,978,197
As at December 31, 2018						
Cost	1,014,097	4,252,326	1,414,454	388	43,803	6,725,068
Less Accumulated depreciation	-	(882,127)	(864,496)	(248)	-	(1,746,871)
Net book amount	1,014,097	3,370,199	549,958	140	43,803	4,978,197
For the year ended						
December 31, 2019						
Opening net book amount	1,014,097	3,370,199	549,958	140	43,803	4,978,197
Additions	-	10,985	43,158	1,450	76,578	132,171
Disposals/write-off	-	(79)	(166)	(1,450)	-	(1,695)
Depreciation charge	-	(197,654)	(174,150)	(60)	-	(371,864)
Transfer	-	22,469	57,716	-	(80,185)	-
Adjustments	-	(221,285)	224,047	-	(2,415)	347
Closing net book amount	1,014,097	2,984,635	700,563	80	37,781	4,737,156
As at December 31, 2019						
Cost	1,014,097	4,064,291	1,420,732	388	37,781	6,537,289
Less Accumulated depreciation		(1,079,656)	(720,169)	(308)		(1,800,133)
Net book amount	1,014,097	2,984,635	700,563	80	37,781	4,737,156

16. INTANGIBLE ASSETS, NET

	(Unit : Thousand) Consolidated Financial Statements			
	Computer software	Patent	Work in process	Total
As at January 1, 2018				
Cost	1,519,025	2,867	34,007	1,555,899
Less Accumulated amortisation	(1,127,753)	(1,288)	-	(1,129,041)
Net book amount	391,272	1,579	34,007	426,858
For the year ended December 31, 2018				
Opening net book amount	391,272	1,579	34,007	426,858
Additions	21,286	-	62,095	83,381
Amortisation charge	(137,669)	(387)	-	(138,056)
Transfer	51,922	-	(51,922)	-
Adjustments	7,894	-	(4,320)	3,574
Closing net book amount	334,705	1,192	39,860	375,757
As at December 31, 2018				
Cost	1,600,127	2,867	39,860	1,642,854
Less Accumulated amortisation	(1,265,422)	(1,675)	-	(1,267,097)
Net book amount	334,705	1,192	39,860	375,757
For the year ended December 31, 2019				
Opening net book amount	334,705	1,192	39,860	375,757
Additions	272,972	1,050	114,398	388,420
Amortisation charge	(152,330)	(387)	-	(152,717)
Transfer	84,353	-	(84,353)	-
Adjustments	929	-	(4)	925
Closing net book amount	540,629	1,855	69,901	612,385
As at December 31, 2019				
Cost	1,958,376	3,917	69,901	2,032,194
Less Accumulated amortisation	(1,417,747)	(2,062)	-	(1,419,809)
Net book amount	540,629	1,855	69,901	612,385

			(Unit : T	housand Baht)
		Separate Finan	cial Statements	
	Computer		Work in	
	software	Patent	process	Total
As at January 1, 2018		• • • • •		
Cost	1,440,305	2,006	34,007	1,476,318
Less Accumulated amortisation	(1,049,588)	(790)	-	(1,050,378)
Net book amount	390,717	1,216	34,007	425,940
For the user and ad December 21, 2018				
For the year ended December 31, 2018	200 717	1 216	24.007	425.040
Opening net book amount	390,717	1,216	34,007	425,940
Additions	18,390	-	62,095	80,485
Amortisation charge	(137,456)	(264)	-	(137,720)
Transfer	51,922	-	(51,922)	-
Adjustments	7,894	-	(4,320)	3,574
Closing net book amount	331,467	952	39,860	372,279
As at December 31, 2018				
Cost	1,518,511	2,006	39,860	1,560,377
Less Accumulated amortisation	(1,187,044)	(1,054)	-	(1,188,098)
Net book amount	331,467	952	39,860	372,279
For the year ended December 31, 2019				
Opening net book amount	331,467	952	39,860	372,279
Additions	272,972	1,050	114,398	388,420
Amortisation charge	(151,572)	(264)	-	(151,836)
Transfer	84,353	-	(84,353)	-
Adjustments	929	-	(4)	925
Closing net book amount	538,149	1,738	69,901	609,788
As at December 31, 2019				
Cost	1,876,760	3,056	69,901	1,949,717
Less Accumulated amortisation	(1,338,611)	(1,318)	-	(1,339,929)
Net book amount	538,149	1,738	69,901	609,788

17. ASSETS FOR MARGIN DEPOSITS AND BENEFITS

Thailand Clearing House Co., Ltd. (TCH) is the clearing house for derivatives market. Members of TCH who have outstanding positions are obliged to place the required margin deposits as a guarantee according to the rate or amount called by TCH. TCH may invest the margin proceeds according to specified terms and conditions. The benefits, after deducting management fees, shall be distributed to members at the announced rates and procedures.

As at December 31, 2019 and 2018, the details of investments for which margin deposits were placed by members consist of:

		(Unit : Thousand Baht) Consolidated		
	Financial	Statements		
	2019	2018		
Savings and fixed deposit accounts	10,360,966	12,670,196		
Savings account in foreign currency	514,544	378,758		
Held-to-maturity investments	1,605,133	1,604,529		
Securities collateral	840,265	796,926		
Accrued benefits	63,754	59,995		
	13,384,662	15,510,404		

As at December 31, 2019, savings account in foreign currency of USD 17.16 million (2018: USD 11.73 million) was translated into Thai Baht using the average transfer buying rate announced by the Bank of Thailand at the end of the accounting period.

The Group presented margin deposits placed by members separately in the account "Assets for margin deposits and benefits" in current assets in the statement of financial position and presented liabilities in the same amount in the account "Margin deposits and benefits payable" in current liabilities in the statement of financial position.

18. ASSETS FOR CLEARING SYSTEM PROTECTION AND BENEFITS

The assets for clearing system protection are established to secure the clearing system of Thailand Clearing House Co., Ltd. (TCH) against any damage caused by defaults by members or other incidents.

Assets for clearing system protection comprise of 2 categories as the following:

18.1 Securities Deposit

Members of TCH are required to place a Securities Deposit according to the announcement made by TCH (the current Securities Deposit for members, who are allowed to clear all types of derivatives, is not less than Baht 5 million and for only one type of derivatives is not less than Baht 4 million).

- 18.2 Clearing fund contributions comprising contributions from:
 - 1) SET amounting to Baht 100 million
 - 2) Members of TCH:
 - Initial contributions according to the announced rates (currently the initial contribution members, who are allowed to clear all types of derivatives, are not less than Baht 6 million and for only one type of derivatives is not less than Baht 1 million).
 - Monthly contributions at a value of not less than Baht 1,000.

TCH manages the assets for clearing system protection and there are benefits incurred thereon, if such benefits are derived from the assets for clearing system protection of members, TCH shall return them to members after deduction of a management fees in accordance with the procedures and within the period prescribed by TCH.

In the event that members defaults in clearing on damage is caused by act of members in connection with clearing. TCH shall have the power to use assets for the Clearing System Protection in the following order:

- 1) Security Deposit of the Member who is in default or causes damage to the Clearing System of TCH, as the case maybe;
- 2) Contribution to the Clearing Fund by the Member who is in default or causes damage to the Clearing of TCH;
- 3) Contributions to the Clearing Fund by the SET in accordance with the amount prescribed by TCH as the first part;
- 4) Assets contributed to the Clearing Fund in the part of other Clearing Fund Members who are not in default or who do not cause the damage to the Clearing System of TCH, as the case maybe;
- 5) The remaining amount of the contributions to the Clearing Fund by the SET after deducting the first part of the contributions to the Clearing Fund by the SET;
- 6) Additional contribution according to the proportion made to the Clearing Fund by respective members
- 7) SET Reserve Fund

The use of the assets under 4) and 6) shall be in proportion with the assets contributed by the clearing Fund Members to the Clearing Fund.

The use of contributions to the Clearing Fund under 3) in accordance with the proportion prescribed by TCH, TCH may notify the change of the proportion in the use of such contributions as appropriate.

A Member who is in default or causes damage to the Clearing of TCH has the duty to return the assets for the Clearing System Protection or other assets which TCH has used according to the Regulation.

In the case that the Clearing Fund has been used, TCH may charge interest for the use of such fund at the maximum rate permitted by the law on interests on loans of financial institutions, as from the date of the use of such fund until the date of the return thereof unless other interest rate is prescribed by TCH.

When the defaulting Member or the Member who causes damage to the Clearing of TCH, has reimbursed the assets for the Clearing System Protection which are equal to the used amount of the assets together with the interest incurred thereon to TCH, the assets shall be allocated as per the order below:

- 1) SET Reserve Fund
- 2) Additional contribution according to the proportion made to the Clearing Fund by respective Members
- 3) The remaining amount of the contributions to the Clearing Fund by the SET after deducting the first part of the contributions to the Clearing Fund by the SET;
- 4) Assets contributed to the Clearing Fund in the part of other Clearing Fund Members who are not in default or who do not cause the damage to the Clearing System of TCH, as the case maybe;
- 5) Contributions to the Clearing Fund by the SET in accordance with the amount prescribed by TCH as the first part;
- 6) Contribution to the Clearing Fund by the Member who is in default or causes damage to the Clearing of TCH
- 7) Security Deposit of the Member who is in default or causes damage to the Clearing System of TCH

The allocation for the return of the assets under 2) and 4) shall be in proportion with that such assets are used pursuant.

When TCH has a resolution to terminate the membership of any members, TCH shall return the assets which such members has provided for the Clearing of TCH, including the remaining benefits therefore after deduction of debts as well as damages and penalty that the member owes to TCH, within the period prescribed by TCH.

The Group has shown the assets to which members have joined as security assets in accordance with the rules specified as a separate item in the account. "Assets for margin deposits and benefits" under non-current assets and have shown the same amount of liabilities in the account "Margin deposits and benefits payable" under non-current liabilities in the statement of financial position.

As at December 31, 2019 and 2018, assets for clearing system protection and benefits consist of:

					(Unit : Th	ousand Baht)
		(Consolidated Fina	ncial Statements		
	Securities Depo	sit and benefits	Clearing fund	and benefits	Tota	al
	2019	2018	2019	2018	2019	2018
Investments managed by TCH Investments managed	698,988	673,494	-	-	698,988	673,494
by private fund						
Savings accounts	69	486	52	2,535	121	3,021
Trading Securities	203,120	200,975	1,295,715	1,092,175	1,498,835	1,293,150
	902,177	874,955	1,295,767	1,094,710	2,197,944	1,969,665
Accrued interest receivable	354	352	1,955	1,773	2,309	2,125
Other assets	46	59	4,999	10,700	5,045	10,759
	902,577	875,366	1,302,721	1,107,183	2,205,298	1,982,549

	(Unit : T Separa Financial Sta	
	2019	2018
Clearing fund and benefits		
Contributions	100,000	100,000
Accumulated benefits	47,916	44,156
	147,916	144,156

Investments managed by TCH

For the year ended December 31, 2019, savings accounts carried interest rates at rates ranging from 0.375% - 1.00% per annum (2018: from 0.375% - 1.00% per annum).

Investments managed by private fund

Investments in private fund are managed by 1 asset management company (2018: 1 asset management company).

The investments policy of private fund is reference to the TCH's regulations in relation to deposits with financial institution and company's investment policies. For the year ended December 31, 2019, the investment in private fund have return rates ranging from 2.45% - 2.46% per annum (2018: from 1.42% - 1.43% per annum).

	(Unit : T Consol Financial S		
	2019 2018		
Securities Deposit and benefits			
Contributions	897,000	871,528	
Benefits (semi-annually distribute to members)	5,997	3,838	
	902,997	875,366	
Clearing fund and benefits			
Contributions	1,011,551	847,572	
Accumulated benefits	143,321	115,455	
	1,154,872	963,027	
	2,057,869	1,838,393	

As at December 31, 2019 and 2018, assets for clearing system protection and benefits payable consist of:

19. RESERVE FUND FOR CLEARING AND SETTLEMENT

Reserve Fund for clearing and settlement from SET established as a source of funds for clearing house to compensate for any damage that may result from default or damages that may be caused by the actions of members in the business relating to the settlement and delivery of securities of the clearing house.

On January 14, 2015 and April 27, 2016, SET's Board of Governors approved an appropriation of reserve fund for clearing and settlement in the approximately Baht 5,690 million by 2020 for compliance with the standard of clearing house set by the Overseas Securities Regulator and for enhance competitiveness and support future business expansion. As at December 31, 2019, the reserve fund for clearing and settlement was Baht 5,590.44 million (2018: Baht 5,328.58 million).

As at December 31, 2019 and 2018, reserve fund for clearing and settlement consist of:

	(Unit : Tl Consol Financial S	
	2019	2018
Investments managed by private fund		
Savings accounts	2,202	10,633
Trading Securities	5,577,063	5,293,794
	5,579,265	5,304,427
Accrued interest income	10,364	10,401
Other assets	809	13,748
	5,590,438	5,328,576

Investments in private fund are managed by 2 asset management companies (2018: 2 asset management companies)

The investment policy of private fund is reference to the TCH's regulations in relation to deposits with financial institution and company's investment policies. For the year ended December 31, 2019, the investments in private fund have return rates ranging between 2.46% - 2.54% per annum (2018: between 1.39% - 1.40% per annum).

20. DEFERRED INCOME TAXES

Statement of financial position shows the balance as follows:

	Consolidated Financial Statements		(Unit : Thousand B Separate Financial Statements	
	2019	2018	2019	2018
As at December 31,				
Deferred tax assets	91,768	139,821	91,743	137,655
Deferred tax liabilities	(12,676)	-	-	-
Deferred tax, net	79,092	139,821	91,743	137,655

The gross movement of the deferred income tax account for the years ended December 31, 2019 and 2018 is as follows:

Deferred tax assets:

	Consolidated Financial Statements		(Unit : Th Separ Financial St	
	2019	2018	2019	2018
Opening balance	149,684	89,789	147,515	87,433
Tax charged/(credited) to revenues and expenses	39,473	46.508	39,982	46,695
Tax charged/(credited) to	57,475	-0,500	57,762	40,095
components of other comprehensive				
revenues and expenses	(12,692)	13,387	(12,692)	13,387
Closing balance	176,465	149,684	174,805	147,515

Deferred tax liabilities:

	Consolidated Financial Statements		(Unit : Thousand Ba Separate Financial Statements	
	2019	2018	2019	2018
Opening balance Tax charged/(credited) to revenues	9,863	172,568	9,860	171,240
and expenses Tax charged/(credited) to components of other comprehensive	17,291	(5,395)	2,983	(4,070)
revenues and expenses	70,219	(151,806)	70,219	(151,806)
Adjustments in SIPF's fund balances	-	(5,504)	-	(5,504)
Closing balance	97,373	9,863	83,062	9,860
Deferred tax, net	79,092	139,821	91,743	137,655

The movement in deferred tax assets and deferred tax liabilities during the years is as follows:

					(Unit : Thou	sand Baht)
	Allowance for doubtful accounts	Cons Unrealized gain on revaluation of investments	olidated Finan Difference on useful life of assets	cial Statements Employee benefits obligation from accumulated annual leave	Employee benefits obligation	Total
Deferred tax assets						
As at January 1, 2018	3,026	-	-	5,227	81,536	89,789
Tax charged/(credited) to revenues						
and expenses	-	789	39,316	(66)	6,469	46,508
Tax charged/(credited) to						
components of other comprehensive						
revenues and expenses	-	13,387		-	-	13,387
As at December 31, 2018	3,026	14,176	39,316	5,161	88,005	149,684
Tax charged/(credited) to revenues						
and expenses	348	(789)	4,879	164	34,871	39,473
Tax charged/(credited) to						
components of other comprehensive						
revenues and expenses		(13,387)	-	-	695	(12,692)
As at December 31, 2019	3,374		44,195	5,325	123,571	176,465

	Unrealized gain on revaluation of available-for-sale securities	Consolidated Fin: Unrealized gain on revaluation of trading securities	•	Thousand Baht) Total
Deferred tax liabilities				
As at January 1, 2018	164,918	7,650	-	172,568
Tax charged/(credited) to revenues				
and expenses	-	(5,395)	-	(5,395)
Tax charged/(credited) to components of other comprehensive				
revenues and expenses	(151,806)	-	(5,504)	(157,310)
As at December 31, 2018	13,112	2,255	(5,504)	9,863
Tax charged/(credited) to revenues				
and expenses	-	17,291	-	17,291
Tax charged/(credited) to				
components of other comprehensive				
revenues and expenses	70,219	-	-	70,219
As at December 31, 2019	83,331	19,546	(5,504)	97,373
				· · · · · ·

	Separate Financial Statements						
	Allowance for doubtful accounts	Unrealized gain on revaluation of investments	Difference on useful life of assets	Employee benefits obligation from accumulated annual leave	Employee benefits obligation	Total	
Deferred tax assets							
As at January 1, 2018	1,005	-	-	5,183	81,245	87,433	
Tax charged/(credited) to revenues							
and expenses	-	641	39,316	(21)	6,759	46,695	
Tax charged/(credited) to components of other comprehensive							
revenues and expenses	-	13,387		-	-	13,387	
As at December 31, 2018	1,005	14,028	39,316	5,162	88,004	147,515	
Tax charged/(credited) to revenues and expenses	709	(641)	4,879	164	34,871	39,982	
Tax charged/(credited) to components of other comprehensive							
revenues and expenses	-	(13,387)		-	695	(12,692)	
As at December 31, 2019	1,714	-	44,195	5,326	123,570	174,805	

(Unit : Thousand Baht)

	(Unit : Thousand Separate Financial Statements Unrealized Unrealized			
	gain on revaluation of available-for- sale securities	gain on revaluation of trading securities	Adjustments in SIPF's fund balances	Total
Deferred tax liabilities				
As at January 1, 2018	164,918	6,322	-	171,240
Tax charged/(credited) to revenues				
and expenses	-	(4,070)	-	(4,070)
Tax charged/(credited) to				
components of other comprehensive				
revenues and expenses	(151,806)	-	(5,504)	(157,310)
As at December 31, 2018	13,112	2,252	(5,504)	9,860
Tax charged/(credited) to revenues				
and expenses	-	2,983	-	2,983
Tax charged/(credited) to				
components of other comprehensive				
revenues and expenses	70,219	_	-	70,219
As at December 31, 2019	83,331	5,235	(5,504)	83,062

21. TRADE AND OTHER PAYABLES

Trade and other payables as at December 31, 2019 and 2018

	Consolidated Financial Statements			(Unit : Thousand Baht) Separate Financial Statements		
	Note	2019	2018	2019	2018	
Trade payable						
Subsidiaries	7	-	-	-	124	
Joint venture entity	7	-	6,746	-	6,746	
Other parties		91,662	62,809	89,536	59,470	
-		91,662	69,555	89,536	66,340	
Other payable						
Accrued expense						
Subsidiaries	7	-	-	11,641	184	
Other parties		1,085,998	1,070,267	1,061,803	1,033,558	
Dividend payable from						
registrar services to investors		89,032	84,042	-	-	
Financial benefits payable		85,569	69,086	-	-	
Other payable from purchase						
of investments		121,325	-	121,325	-	
Others		16,881	24,777	12,453	19,672	
		1,398,805	1,248,172	1,207,222	1,053,414	
		1,490,467	1,317,727	1,296,758	1,119,754	

22. OTHER CURRENT LIABILITIES

Other current liabilities as at December 31, 2019 and 2018

	Consolidated Financial Statements		(Unit : Th Separ Financial St	
	2019	2018	2019	2018
Withholding tax payable	79,403	34,417	9,581	10,624
Other retention payables	27,407	36,854	27,404	36,850
Employee benefits obligation from				
accumulated annual leave	26,631	25,810	26,631	25,810
Value added tax payable	19,927	21,652	16,862	21,652
Ngoen-Thong-khong-Mee-Kha Fund	11,576	11,576	11,576	11,576
Current portion of employee benefits				
obligation (see Note 23)	4,456	3,699	4,456	3,699
Others	3,597	2,342	1,913	673
	172,997	136,350	98,423	110,884

23. EMPLOYEE BENEFITS OBLIGATION

	Consolidated Financial Statements As at December 31 2019 2018		(Unit : Thousand Ba Separate Financial Statements As at December 31 2019 2018	
Statement of financial position				
Provision to be settled within 1 year				
Retirement benefits (see Note 22)	4,456	3,699	4,456	3,699
	4,456	3,699	4,456	3,699
Provision to be settled after 1 year				
Retirement benefits	571,483	407,020	571,483	407,020
Other benefits	41,910	29,301	41,910	29,301
	613,393	436,321	613,393	436,321
	617,849	440,020	617,849	440,020
	Consolie		Separ	
	Financial St		Financial Statements	
	For the yea		For the yea	
	Decemb 2019	2018	Decemb 2019	2018
	2019	2018	2019	2010
Expenses charge included in the statement of revenues and expenses				
Retirement benefits	175,446	48,390	175,446	48,390
Other benefits	16,686	2,618	16,686	2,618
	192,132	51,008	192,132	51,008

The amounts recognized in the statement of financial position are determined as follows:

	Consolidated Financial Statements As at December 31		(Unit : Thousand Baht Separate Financial Statements As at December 31		
	2019	2018	2019	2018	
Present value of obligations					
Retirement benefits	575,939	410,719	575,939	410,719	
Other benefits	41,910	29,301	41,910	29,301	
Liabilities in the statement of financial position	617,849	440,020	617,849	440,020	

	Consoli Financial S		(Unit : Thousand Baht) Separate Financial Statements		
	2019	2018	2019	2018	
As at January 1,	440,020	407,678	440,020	406,226	
Current service costs	36,115	40,029	36,115	40,029	
Interest costs	12,712	10,979	12,712	10,979	
Past service costs	143,305	-	143,305	-	
Remeasurements:					
Loss from change in					
demographic assumptions	42,550	-	42,550	-	
Gain from change in financial					
assumptions	(9,274)	-	(9,274)	-	
Gain from experience	(43,503)	-	(43,503)	-	
	621,925	458,686	621,925	457,234	
Less Benefits paid	(4,076)	(18,666)	(4,076)	(18,568)	
Add Transfer of employees from a subsidiary	-	-	-	1,354	
As at December 31,	617,849	440,020	617,849	440,020	
Less Current portion within 1 year					
(see Note 22)	(4,456)	(3,699)	(4,456)	(3,699)	
Total non-current portion	613,393	436,321	613,393	436,321	

The movement in the defined benefit obligation during the years is as follows:

For the years ended December 31, 2019 and 2018, the amounts recognized in the statement of comprehensive revenues and expenses are as follows:

	Consoli Financial St		(Unit : Th Separ Financial St	
	2019	2018	2019	2018
Current service costs	36,115	40,029	36,115	40,029
Interest costs	12,712	10,979	12,712	10,979
Past service costs	143,305	-	143,305	-
	192,132	51,008	192,132	51,008

The Labor Protection Act (No. 7) B.E. 2562 has been announced in the Royal Gazette on April 5, 2019, which will be effective after 30 days from the date announced in Royal Gazette. This Labor Protection Act stipulates additional legal severance pay rates for employees who have worked for an uninterrupted period of twenty years or more. Such employees are entitled to receive compensation of not less than 400 days at the employees' latest wage rate. This change is considered an amendment to post-employment benefits plan. The Group reflects the effect of such change by recognizing past service cost as an expense in the statement of comprehensive revenues and expenses of the period in which the law is effective.

The principal actuarial assumptions used were as follows:

	2019	2018
Discount rate as of December 31,	1.78% - 3.82%	2.75%
Salary incremental rate	7%	6.50%
Average turnover rate	0.00 % - 12.00%	0.00 % - 13.00%
Pre-retirement mortality rate	Adjust 3% of TMO2017	75% of TMO2017
Retirement age	60 years old	60 years old

Impact on defined benefit obligation								
Change in	assumption	Increase in	n assumption	Decrease i	Decrease in assumption			
2019	2018	2019	2018 2019		2018			
0.5%	1%	Decrease by 6%	Decrease by 12%	Increase by 7%	Increase by 12%			
1%	1%	Increase by 13%	Increase by 14%	Decrease by 11%	Decrease by 12%			
20%	20%	Decrease by 4%	Decrease by 6%	Increase by 4%	Increase by 6%			
	2019 0.5% 1%	2019 2018 0.5% 1% 1% 1%	Change in assumptionIncrease in2019201820190.5%1%Decrease by 6%1%1%Increase by 13%	Change in assumptionIncrease in assumption20192018201920180.5%1%Decrease by 6%Decrease by 12%1%1%Increase by 13%Increase by 14%	Change in assumption Increase in assumption Decrease in assumption 2019 2018 2019 2018 2019 0.5% 1% Decrease by 6% Decrease by 12% Increase by 7% 1% 1% Increase by 13% Increase by 14% Decrease by 11%			

The above sensitivity analyses are based on a change in an assumption while holding all other assumptions constant. In practice, this is unlikely to occur, and changes in some of the assumptions may be correlated. When calculating the sensitivity of the defined benefit obligation to significant actuarial assumptions the same method (present value of the defined benefit obligation calculated with the projected unit credit method at the end of the reporting period) has been applied as when calculating the pension liability recognized within the statement of financial position.

The weighted average duration of the defined benefit obligation is 19 years (2018 : 20 years).

Expected maturity analysis of undiscounted retirement and other benefits:

Consolidat	ted and Separa		ousand Baht) ments		
Within a year	1-5 years	Over 5 years	Total		
5,092	62,741	254,584	322,417		
4,518	13,790	14,699	33,007		
9,610 76,531 269,283		355,424			
(Unit : Thousand Baht) Consolidated and Separate Financial Statements					
Within a year	1-5 years	Over 5 years	Total		
82	34,167	508,512	542,761		
3,628	7,660	20,038	31,326		
3,710	41,827	528,550	574,087		
	Within a year 5,092 4,518 9,610 Consolidat Within a year 82 3,628	Within a year 1-5 years 5,092 62,741 4,518 13,790 9,610 76,531 Consolidated and Separa Within a year 1-5 years 82 34,167 3,628 7,660	Consolidated and Separate Financial State Within a year 1-5 years Over 5 years 5,092 62,741 254,584 4,518 13,790 14,699 9,610 76,531 269,283 (Unit : Th Consolidated and Separate Financial State Within a year 1-5 years Over 5 years 82 34,167 508,512 3,628 7,660 20,038		

24. FUND BALANCES

The statement of change in the fund for the years ended December 31, 2019 and 2018 presented as part of the consolidated and separate financial statements as follows:

								(Unit : Th	nousand Baht)
	Notes	Securities Clearing Reserve Fund	Derivatives Clearing Reserve Fund	Indemnity Fund		Financial State nd balances Securities Investor Protection Fund	ements Derivatives Investor Protection Fund	General Fund	Total
Opening balance as at January 1, 2018		4,740,000	300,000	100,000	110,670	459,608	54,662	20,959,068	26,724,008
Appropriation of general fund	24.1	200,000	-	-	-	-	-	(200,000)	-
Appropriation of Securities Clearing Reserve Fund Other comprehensive revenues and expenses,	24.1 and 24.2	(700,000)	700,000	-	-	-	-	-	-
net of tax	25.2	-	-	-	-	-	-	485	485
Revenues over expenses	25.2	-	-	-	1,404	9,937	686	1,942,886	1,954,913
Closing balance as at December 31, 2018	-	4,240,000	1,000,000	100,000	112,074	469,545	55,348	22,702,439	28,679,406
Opening balance as at January 1, 2019		4,240,000	1,000,000	100,000	112,074	469,545	55,348	22,702,439	28,679,406
Appropriation of general fund Other comprehensive revenues and expenses,	24.1	200,000	-	-	-	-	-	(200,000)	-
net of tax	25.2	-	-	-	-	-	-	10,226	10,226
Revenues over (under) expenses	25.2	-	-		1,923	13,930	848	(2,615,700)	(2,598,999)
Closing balance as at December 31, 2019	-	4,440,000	1,000,000	100,000	113,997	483,475	56,196	19,896,965	26,090,633

(Unit : Thousand Baht)

							(Umt : II	iousanu Dant)	
		Separate Financial Statements							
		Fund balances							
		Securities	Derivatives			Securities			
		Clearing	Clearing		Staff	Investor			
		Reserve	Reserve	Indemnity	Welfare	Protection	General		
	Notes	Fund	Fund	Fund	Fund	Fund	Fund	Total	
Opening balance as at January 1, 2018		4,740,000	300,000	100,000	110,670	459,608	19,297,873	25,008,151	
Appropriation of general fund	24.1	200,000	-	-	-	-	(200,000)	-	
Appropriation of Securities Clearing Reserve Fund	24.1 and 24.2	(700,000)	700,000	-	-	-	-	-	
Revenues over expenses	25.2	-	-	-	1,404	9,937	1,301,940	1,313,281	
Closing balance as at December 31, 2018	-	4,240,000	1,000,000	100,000	112,074	469,545	20,399,813	26,321,432	
Opening balance as at January 1, 2019		4,240,000	1,000,000	100,000	112,074	469,545	20,399,813	26,321,432	
Appropriation of general fund	24.1	200,000	-	-	-	-	(200,000)	-	
Other comprehensive revenues and expenses, net of tax	25.2	-	-	-	-	-	10,226	10,226	
Revenues over (under) expenses	25.2	-	-	-	1,923	13,930	(3,034,078)	(3,018,225)	
Closing balance as at December 31, 2019	-	4,440,000	1,000,000	100,000	113,997	483,475	17,175,961	23,313,433	

Details of fund balances are as follows:

24.1 Securities Clearing Reserve Fund

In 1997 and 2013, the Board of Governors of SET approved an appropriation of general funds of Baht 2,000 million and Baht 500 million, respectively, totalling Baht 2,500 million to the Securities Clearing Reserve Fund, which is operated by a subsidiary of SET, in order to resolve liquidity risk in the event of default on clearing and settlement from securities trading on SET.

In 2015, the Board of Governors of SET approved an appropriation of general funds to the Securities Clearing Reserve Fund from 2015 - 2019, totalling Baht 2,640 million, starting from 2015 of Baht 1,840 million and in the following years of Baht 200 million per year.

In 2018, the Board of Governors of SET approved an appropriation of the Securities Clearing Reserve Fund to Derivatives Clearing Reserve Fund of Baht 700 million, in order for the clearing house to have sufficient funds in both markets.

24.2 Derivatives Clearing Reserve Fund

In 2004, the Board of Governors of SET approved an appropriation of general funds of Baht 300 million to the Derivatives Clearing Reserve Fund in order to assure contingent losses from the clearing system of futures contracts at Thailand Clearing House Co., Ltd.

In 2018, Derivatives Clearing Reserve Fund has been allocated from Securities Clearing Reserve Fund of Baht 700 million according to the resolution of the Board of Governors of SET, in order for the clearing house to have sufficient funds in both markets.

24.3 Indemnity Fund

In 1993 and 2002, the Board of Governors of SET approved appropriations of general funds totalling Baht 100 million to the Indemnity Fund in order to assist and assure the Board of Governors of SET and those appointed assignees on matters requiring consideration and decisions which may affect or cause damages to other parties.

24.4 Staff Welfare Fund

In 1997 and 2004, the Board of Governors of SET approved appropriations of general funds was Baht 75 million to the Staff Welfare Fund. All benefits earned from this fund are retained in the fund.

24.5 Securities Investor Protection Fund

In 2004, the Board of Governors of SET approved an appropriation of Baht 300 million from broker seat admission fees as an initial fund for the establishment of the Securities Investor Protection Fund (SIPF).

The SIPF was formally established under SIPF regulations on October 1, 2004. The objective of the fund is to protect and build investor confidence in trading listed securities on SET through the members of the SIPF. As at December 31, 2019, there were 34 SIPF members from securities companies (2018: 34 SIPF members).

The assets of SIPF consist of:

- 1) the initial fund from SET of Baht 300 million;
- 2) the cumulative membership entrance fees and monthly fees collected from the members;
- 3) the future benefits generated from investments in the SIPF.

SIPF will protect the investors' assets which are in the custody of the securities brokers who are members of the SIPF. In the event that the members of the SIPF fail to return the assets to investors, each investor shall be compensated by the SIPF for the related damages at the actual cost, but not exceeding Baht 1 million per SIPF member, in the following cases:

- 1) if any SIPF member is in receivership under the Bankruptcy Act or
- 2) if there are disputes concerning the purchase or sale of securities listed on SET between investors and any SIPF member, and the arbitrator's award is that the SIPF member shall return the assets to investors, but the SIPF member violates the award.

The protection will not include any losses from securities trading regardless of who makes the investment decision.

If the number of assets of the SIPF is not sufficient for compensation to investors as mentioned above, the investors will receive from the SIPF for assets in accordance with the proportion of damage sustained by each investor (pro rata based).

When the Board of Governors of SET resolves to approve granting protection to any investor. SET will use the SIPF to provide protection to such investor, which shall be in the following sequence:

- 1) the SIPF with respect to the part paid by that SIPF's member who caused damage to the investors;
- 2) the SIPF with respect to the yields or benefits;
- 3) the SIPF with respect to the part paid by other member; and
- 4) the SIPF with respect to the part paid by SET

Upon SET's use of SIPF to provide protection to investors in accordance with the rules prescribed, SET shall exercise the right to demand the return of the assets which have been paid to the investors and damages from the SIPF's member in accordance with the right transferred by the investors.

SET shall allocate the assets or money to SIPF which are returned from members who caused damage to the investors in the following sequence:

- 1) the SIPF with respect to the part belonging to SET;
- 2) the SIPF with respect to the part belonging to other members;
- 3) the SIPF with respect to the yield or benefits;
- 4) the SIPF with respect to the part belonging to SIPF's members who caused damage to the investors

24.6 Derivatives Investor Protection Fund

In 2012 the board of directors of Thailand Futures Exchange Public Company Limited (TFEX), a subsidiary, has a resolution to establish the Derivatives Investor Protection Fund (DIPF) and approved an appropriation of Baht 50 million as an initial fund.

The DIPF was established on November 15, 2012. The objective of the DIPF is to provide protection for derivatives contracts investors in accordance with the rules prescribed by TFEX. Investors need to be protected must become customers of DIPF members and is a Thai natural person, a juristic person incorporated in Thailand who is not an institutional investor under the Derivatives Act B.E. 2546 (2003). As at December 31, 2019, there were 37 DIPF members from security companies (2018: 37 DIPF members).

Assets of the DIPF consist of TFEX initial capital, admission fees and contributions collected from members of the DIPF, and yields or benefits obtained from the proceeds and assets of the DIPF after the deduction of expenses for the operation of the DIPF. At the time of its establishment, the DIPF will have assets worth no less than Baht 100 million, which consists of initial capital of Baht 50 million from TFEX and admission fees and contributions from DIPF members in the rest to make the total of Baht 100 million. TFEX may collect additional sums of money as it deems necessary and appropriate.

DIPF will protect the investors' assets which are in the custody of the securities brokers who are members of the DIPF. In the event that the members of the DIPF fail to return the assets to investors, each investor shall be compensated by the DIPF for the related damages at the actual cost, but not exceeding Baht 1 million per DIPF member, in the following cases:

- 1) if any DIPF member is in receivership under the Bankruptcy Act or
- 2) if there are disputes concerning the purchase or sale of securities listed on SET between investors and any DIPF member, and the arbitrator's award is that the DIPF member shall return the assets to investors, but the DIPF member violates the award.

The protection will not include any losses from derivatives trading regardless of who makes the investment decision.

If the number of assets of the DIPF is not sufficient for compensation to investors as mentioned above, the investors will receive from the DIPF for assets in accordance with the proportion of damage sustained by each investor (pro rata based).

When the Board resolves to approve granting protection to any investor. TFEX will use the DIPF to provide protection to such investor, which shall be in the following sequence:

- 1) the DIPF with respect to the part paid by that DIPF's member who caused damage to the investors;
- 2) the DIPF with respect to the yields or benefits;
- 3) the DIPF with respect to the part paid by other member; and
- 4) the DIPF with respect to the part paid by TFEX

Upon TFEX's use of DIPF to provide protection to investors in accordance with the rules prescribed, DIPF's member who caused damage to investors has the duty to return assets to TFEX. TFEX shall exercise the right to demand the return of the assets which have been paid to the investors and damages from the DIPF's member in accordance with the right transferred by the investors.

TFEX shall allocate the funds which are returned in whole or in part to the DIPF in the following sequence:

- 1) the DIPF with respect to the part belonging to TFEX;
- 2) the DIPF with respect to the part belonging to other members;
- 3) the DIPF with respect to the yield or benefits;
- 4) the DIPF with respect to the part belonging to DIPF's members who caused damage to the investors

25. FINANCIAL POSITION AND RESULTS OF FUND OPERATIONS

25.1 Financial position of fund

The SIPF's financial statements included as part of the consolidated and separate's financial statements are as follows:

financial statements are as follows:			
	(Unit : Thousand Baht Consolidated and Separate Financial Statements As at December 31, 2019 2018		
Assets	2017	2010	
Current assets			
Cash deposits and short-term investments	297,100	325,128	
Accrued interest receivable	3,836	3,530	
Other current asset	300	389	
Total current assets	301,236	329,047	
Total current assets	501,250	527,047	
Non-current assets			
Long-term investments	530,792	469,426	
Total non-current assets	530,792	469,426	
Total assets	832,028	798,473	
1 otal assets	032,020	170,475	
Liabilities and fund balances			
Liabilities of members portion			
Contributions from members	227,873	226,628	
Benefits on contributions from members	108,381	96,219	
Total liabilities of members portion	336,254	322,847	
Fund balances			
Initial fund	300,000	300,000	
Benefits on contributions from SET	183,475	169,545	
	483,475	469,545	
Other components	12,299	6,081	
Total fund balances	495,774	475,626	
Total liabilities and fund balances	832,028	798,473	

	(Unit : Thousand Baht) Consolidated Financial Statements As at December 31,		
	2019	2018	
Assets			
Current assets	(0.470	54 507	
Cash deposits and short-term investments	68,479	54,587	
Contributions from members	15	851	
Accrued interest receivable	543	485	
Total current assets	69,037	55,923	
Non-current assets			
Long-term investments	41,200	48,227	
Total non-current assets	41,200	48,227	
Total assets	110,237	104,150	
Liabilities and fund balances Current liabilities			
Income tax payable	396	293	
Other current liabilities	1	-	
Total current liabilities	397	293	
Non-current liabilities			
Contributions from members	50,976	46,634	
Benefits on contributions from members	2,668	1,875	
Total non-current liabilities	53,644	48,509	
Total liabilities	54,041	48,802	
Fund balances			
Initial fund	50,000	50,000	
Benefits on contributions from TFEX	6,196	5,348	
Total fund balances	56,196	55,348	
Total liabilities and fund balances	110,237	104,150	

The DIPF's financial statement included as part of the consolidated financial statements are as follows:

25.2 Results of fund operations

Details of the results of fund operations which are included as part of the consolidated and the entity's statement of comprehensive revenues and expenses are as follows:

				(Unit : '	Thousand Baht)
		Consolida Securities	ited Financial State Derivatives	ments	
		Investor	Investor		
	Staff	Protection Fund	Protection Fund		
	Welfare	(SET's	(TFEX's	General	
	Fund	portion)	portion)	Fund	Total
For the year ended December 31, 2019					
Revenues					
Operating revenues	-	-	-	5,883,591	5,883,591
Investment income, net	1,923	14,016	1,110	946,031	963,080
Other income	-	-	-	499,636	499,636
Total revenues	1,923	14,016	1,110	7,329,258	7,346,307
Expenses					
Operating expenses	-	86	46	4,216,819	4,216,951
Reversal of contributions to the Stock Exchange		00	10	1,210,019	1,210,951
of Thailand Foundation	_	_	_	(186,132)	(186,132)
Transfer money to the Capital Market				(100,152)	(100,152)
Development Fund	_	_	_	5,700,000	5,700,000
Income tax expense	_	_	216	214,271	214,487
Total expenses		86	262	9,944,958	9,945,306
Revenues over (under) expenses	1,923	13,930	848	(2,615,700)	(2,598,999)
Revenues over (under) expenses	1,925	13,750	040	(2,015,700)	(2,390,999)
Other comprehensive revenues and expenses					
Items that will be reclassified					
subsequently to revenues and expenses					
Share of profit of investments in associates	-	-	-	158	158
Change in value of available-for-sale					
investments managed by SET	-	-	-	417,992	417,992
Change in value of available-for-sale					
investments from Securities Investor					
Protection Fund	-	6,218	-	-	6,218
Income tax relating to items that will be					
reclassified subsequently to revenues					
and expenses	-	-	-	(82,910)	(82,910)
Total items that will be reclassified					
subsequently to revenues and expenses	-	6,218		335,240	341,458
Items that will not be realissified subsequently					
Items that will not be reclassified subsequently to revenues and expenses					
× ×					
Remeasurements of post-employment				10 226	10 226
benefits obligations				10,226	10,226
Total items that will not be reclassified				10.226	10.226
to revenues and expenses	-			10,226	10,226
Total comprehensive revenues and expenses	1,923	20,148	848	(2,270,234)	(2,247,315)
Total comprehensive revenues and expenses					
for the years attributable to:		20 - 10	e 10	(2.270.27.1)	
Owners of the parents	1,923	20,148	848	(2,270,234)	(2,247,315)
Non - controlling interests	-	-		-	-
-	1,923	20,148	848	(2,270,234)	(2,247,315)

(Unit	: Thousand	Baht)
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	Staff Welfare Fund	Consolic Securities Investor Protection Fund (SET's portion)	lated Financial State Derivatives Investor Protection Fund (TFEX's portion)		Total
For the year ended December 31, 2018					
Revenues					
Operating revenues	-	-	-	5,722,355	5,722,355
Investment income, net	1,404	12,487	952	584,781	599,624
Other income	-	-		278,629	278,629
Total revenues	1,404	12,487	952	6,585,765	6,600,608
Expenses					
Operating expenses	-	117	89	3,978,085	3,978,291
Contributions to the Stock Exchange					
of Thailand Foundation	-	-	-	186,132	186,132
Income tax expense	-	2,433	177	478,662	481,272
Total expenses	-	2,550	266	4,642,879	4,645,695
Revenues over expenses	1,404	9,937	686	1,942,886	1,954,913
Other comprehensive revenues and expenses Items that will be reclassified subsequently to revenues and expenses					
Share of profit of investments in associates	-	-	-	(103)	(103)
Change in value of available-for-sale					
investments managed by SET	-	-	-	(825,957)	(825,957)
Change in value of available-for-sale					
investments from Securities Investor		(10 (10)			(10,646)
Protection Fund	-	(10,646)	-	-	(10,646)
Income tax relating to items that will be					
reclassified subsequently to revenues		5 504		166 001	171 725
and expenses	-	5,504		166,221	171,725
Total items that will be reclassified		(5.140)		((50.920)	(((1 0 0 1)
subsequently to revenues and expenses	-	(5,142)		(659,839)	(664,981)
Items that will not be reclassified subsequently					
to revenues and expenses					
Remeasurements of post-employment					
benefits obligations	-	-	-	606	606
Income tax relating to items that will not be					
reclassified subsequently to revenues					
and expenses	-			(121)	(121)
Total items that will not be reclassified					
to revenues and expenses	-	-		485	485
Total comprehensive revenues and expenses	1,404	4,795	686	1,283,532	1,290,417
Total comprehensive revenues and expenses					
for the years attributable to:					
Owners of the parents	1,404	4,795	686	1,283,533	1,290,418
Non - controlling interests	-			(1)	(1)
-	1,404	4,795	686	1,283,532	1,290,417

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(Unit :	Thousand	Baht)
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			(Unit	: Thousand Bah
	Staff	Separate Financia Securities Investor Protection Fund	al Statements	
	Welfare	(SET's	General	
	Fund	portion)	Fund	Total
For the year ended December 31, 2019				
Revenues				
Operating revenues	_	_	2,652,268	2,652,268
Investment income, net	1,923	14,016	1,547,098	1,563,037
Other income	1,725	-	2,060,116	2,060,116
Total revenues	1,923	14,016		
i otar revenues	1,925	14,010	6,259,482	6,275,421
Expenses				
Operating expenses	-	86	3,826,379	3,826,465
Reversal of contributions to the Stock Exchange				
of Thailand Foundation	-	-	(186,132)	(186,132)
Transfer money to the Capital Market				
Development Fund	-	-	5,700,000	5,700,000
Income tax expense	-	-	(46,687)	(46,687)
Fotal expenses	-	86	9,293,560	9,293,646
Revenues over(under) expenses	1,923	13,930	(3,034,078)	(3,018,225)
Other comprehensive revenues and expenses				
Items that will be reclassified				
subsequently to revenues and expenses				
Change in value of available-for-sale			417.002	417.002
investments managed by SET	-	-	417,992	417,992
Change in value of available-for-sale				
investments from Securities Investor		6.010		6.010
Protection Fund	-	6,218	-	6,218
Income tax relating to items that will be				
reclassified subsequently to revenues			(00 010)	(0.5.0.1.5)
and expenses	-		(82,912)	(82,912)
Fotal items that will be reclassified				
subsequently to revenues and expenses		6,218	335,080	341,298
tems that will not be reclassified subsequently				
to revenues and expenses				
Remeasurements of post-employment				
benefits obligations			10,226	10,226
Fotal items that will not be reclassified				
to revenues and expenses	-	-	10,226	10,226
Fotal comprehensive revenues and expenses	1,923	20,148	(2,688,772)	(2,666,701)
Fotal comprehensive revenues and expenses	J~ ~			
for the years attributable to:				
Owners of the parents	1,923	20,148	(2,688,772)	(2,666,701)
Non - controlling interests	1,723	-	(2,088,772)	(2,000,701)
Non - controlling interests	- 1.022			(2 666 701)
	1,923	20,148	(2,688,772)	(2,666,701)

(Unit . Thousand Dant)	(Unit :	Thousand	Baht)
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			(Unit :	Thousand Bah	
		Separate Financia Securities Investor	al Statements		
	Staff Welfare Fund	Protection Fund (SET's portion)	General Fund	Total	
For the year ended December 31, 2018					
Revenues					
Operating revenues	-	-	2,601,316	2,601,316	
Investment income, net	1,404	12,487	860,726	874,617	
Other income	-	-	1,901,827	1,901,827	
Total revenues	1,404	12,487	5,363,869	5,377,760	
Expenses					
Operating expenses	-	117	3,639,511	3,639,628	
Contributions to the Stock Exchange					
of Thailand Foundation	-	-	186,132	186,132	
Income tax expense	-	2,433	236,286	238,719	
Total expenses	-	2,550	4,061,929	4,064,479	
Revenues over expenses	1,404	9,937	1,301,940	1,313,281	
Other comprehensive revenues and expenses					
Items that will be reclassified					
subsequently to revenues and expenses					
Change in value of available-for-sale					
investments managed by SET	-	-	(825,957)	(825,957)	
Change in value of available-for-sale					
investments from Securities Investor					
Protection Fund	-	(10,646)	-	(10,646)	
Income tax relating to items that will be					
reclassified subsequently to revenues					
and expenses		5,504	165,194	170,698	
Total items that will be reclassified					
subsequently to revenues and expenses		(5,142)	(660,763)	(665,905)	
Items that will not be reclassified subsequently					
to revenues and expenses					
Remeasurements of post-employment					
benefits obligations	-	-	-	-	
Income tax relating to items that will not be					
reclassified subsequently to revenues					
and expenses				-	
Total items that will not be reclassified					
to revenues and expenses		-		-	
Total comprehensive revenues and expenses	1,404	4,795	641,177	647,376	
Total comprehensive revenues and expenses					
for the years attributable to:					
Owners of the parents	1,404	4,795	641,177	647,376	
Non - controlling interests	-			-	
	1,404	4,795	641,177	647,376	

26. OPERATING REVENUES

Operating revenues for the years ended 31 December 2019 and 2018 consist of:

			(Unit : Tl	housand Baht)
	Consolidated Financial Statements		Separate Financial Statements	
	2019	2018	2019	2018
Timing of revenue recognition				
At a point in time				
Trading fees	1,839,019	1,922,481	1,297,886	1,413,007
Securities registrar fees	532,377	470,865	-	-
Listing fees	244,945	193,944	244,945	193,944
Clearing & settlement fees	600,935	603,948	-	-
Member services fees	379,978	408,635	-	-
Information service fees	993	2,167	476	1,956
Depository fees	346,545	341,204	-	-
Customization and IT support fees	1,375	556	1,375	556
Membership fees	200	16,260	-	12,858
Fund services fees	2,800	2,600	-	_
	3,949,167	3,962,660	1,544,682	1,622,321
Overtime				
Securities registrar fees	693,662	650,072	-	-
Listing fees	477,924	449,001	477,924	449,001
Member services fee	40,347	42,324	-	-
Information service fees	365,713	343,489	331,525	308,145
Customisation and IT support fees	275,572	199,100	274,737	198,449
Membership fees	63,830	63,680	23,400	23,400
Fund services fee	17,376	12,029		_
	1,934,424	1,759,695	1,107,586	978,995
Total operating revenues	5,883,591	5,722,355	2,652,268	2,601,316

27. INVESTMENT INCOME, NET

Investment income, net for the years ended December 31, 2019 and 2018

		Consolidated Financial Statements		Consolidated Financial Statements Fina			ousand Baht) rate ratements
	Notes	2019	2018	2019	2018		
Interest income		436,238	417,033	278,766	208,939		
Less Interest expense							
Short-term borrowings							
from subsidiaries	7	-	-	(36,569)	(51,360)		
Assets for clearing							
system protection -							
members' portion		(219,577)	(211,527)	-	-		
Interest income, net		216,661	205,506	242,197	157,579		
Dividend income from							
Mutual funds		140,331	208,304	140,331	208,304		
Subsidiaries	12	-	-	655,779	305,901		
Associates	13	-	-	15,743	12,595		
Joint venture entity	13	-	-	-	2,047		
Private fund		31	25	17	14		
Other entities		3,536	2,668	3,536	2,668		
Realized gain from investments		420,168	206,316	396,471	202,290		
Unrealized gain (loss) from							
trading securities		90,398	(30,918)	18,118	(23,552)		
Gain (loss) on exchange rate							
from foreign investments		73,434	(5,527)	73,434	(5,527)		
Reversal of impairment loss		3,395	-	3,395	-		
Others			(189)	-	(189)		
	_	947,954	586,185	1,549,021	862,130		

28. OTHER INCOME

Other income for the years ended December 31, 2019 and 2018

	Consolidated Financial Statements		Sepa	housand Baht) arate Statements
	2019	2018	2019	2018
Compensation income (see Note 36.1)	145,088	-	145,088	-
Fines	80,151	58,647	12,418	52,743
Educational activities income	64,442	72,604	64,442	72,604
Revenues from fees and management funds	36,657	41,821	840	770
Revenues from securities borrowing				
and lending	34,461	14,103	-	-
Revenues from marketing event	22,978	24,266	22,634	24,266
Rental & utilities revenues	15,295	16,403	15,295	16,403
Revenues from transfer of rights from				
securities companies	11,200	-	10,000	-
Service income from related parties				
(see Note 7)	1,687	17,487	1,778,473	1,726,081
Other income	42,294	24,668	10,926	8,960
-	454,253	269,999	2,060,116	1,901,827

29. EMPLOYEE BENEFIT EXPENSES

Employee benefit expenses for the years ended December 31, 2019 and 2018

	Consolidated Financial Statements		(Unit : Tł Sepa Financial S	
	2019	2018	2019	2018
Management				
Salaries and other benefits	232,216	211,189	232,216	211,189
Contributions to provident fund	11,053	9,744	11,053	9,744
	243,269	220,933	243,269	220,933
Other employees				
Salaries and other benefits	1,622,193	1,397,436	1,620,982	1,397,256
Contributions to provident fund	74,009	69,383	74,009	69,366
	1,696,202	1,466,819	1,694,991	1,466,622
	1,939,471	1,687,752	1,938,260	1,687,555

The defined contribution plans comprise provident funds established by the Group for its employees. Contributions are made monthly by the employees at rates ranging from 3.00% to 15.00% of their basic salaries and by the Group at the rate of 10.00% of the employees' basic salaries. The provident funds are registered with the Ministry of Finance as juristic entities and are managed by a licensed Fund Manager.

30. SEC FEES

The Securities and Exchange Act B.E. 2535 (1992) requires SET to pay to the SEC at a rate as determined by the Board of the SEC.

In 2016, the Board of the SEC has approved to charge SET for the year 2017 - 2019 (for the period of 3 years) as follows:

- 1. Charge at the rate of 0.002% of trading value of the year.
- 2. Charge on total equity of listing companies who have never issued securities for sale under the approval of the SEC, at the same rate that the SEC charge from listed companies who issued securities and submit report to the SEC according to clause 56 of the SEC Act.

In 2017, Board of Governors of SET was resolved to cancel the additional fees as prescribed by the Office of the Securities and Exchange Commission in order to comply with the Securities and Exchange Act (No. 5) B.E. 2559 (2016), effective from December 12, 2016.

However, if there is an event changes or problems of implementation during the period, terms and conditions may be revised.

The Board of the SEC also required Thailand Future Exchange Public Company Limited (subsidiary) to pay the fee of derivatives trading exchange. The rate for year 2017 - 2019 is Baht 2 million per annum.

31. OTHER EXPENSES

(Unit : Thousand Baht) Consolidated Separate **Financial Statements Financial Statements** 2019 2018 2019 2018 99,166 108,152 84,100 Fees and compensation expenses 128,067 Capital market development expenses 36,492 23,969 36,493 23,941 Travelling and vehicle expenses 35,985 36,524 34,318 35,331 Donation and CSR expenses 11,206 748 11,006 748 Institution membership fees 4,897 5,160 3,661 3,898 Entertainment expenses 3,170 2,850 3,130 2,799 Meeting expenses 2,821 2,755 2,634 2,586 Other expenses 15,977 11,100 15,476 10,843 238,615 182,272 214,870 164,246

Other expenses for the years ended December 31, 2019 and 2018

32. TRANSFER MONEY TO THE CAPITAL MAKET DEVELOPMENT FUND

The Securities and Exchange Act (No. 6) B.E. 2562, announced on April 16, 2019, requires that The Stock Exchange of Thailand (SET) proceed as follows:

- 1. Transfer the money or any other assets in the amount of Baht 5,700 million to the Capital Market Development Fund (CMDF). SET's Board of the Governors and CMDF's Committee shall jointly determine the amount or value, type and nature of the money or assets to be transferred.
- 2. Provide the money to CMDF within 150 days from the end of the calendar year at the rate not less than 90% of the revenue after deduction of expense, tax and reserve expenses. In this regard, the consolidated financial statements of SET shall be used to calculate the remittance amount.

SET transferred money in the amount of Baht 5,700 million to the CMDF on July 4, 2019 and recognized in expense for the year 2019.

33. INCOME TAX EXPENSE

Income tax expense for the years ended December 31, 2019 and 2018

	Consolidated Financial Statements		(Unit : Thousand B Separate Financial Statements	
	2019	2018	2019	2018
Current income tax				
Previous income tax	-	-	(9,688)	-
Current income tax	236,452	530,565	-	287,051
Total current income tax	236,452	530,565	(9,688)	287,051
Deferred income tax Origination and reversal of temporary				
differences	(22,181)	(51,903)	(36,999)	(50,765)
Total deferred income tax	(22,181)	(51,903)	(36,999)	(50,765)
Total income tax expense (revenue)	214,271	478,662	(46,687)	236,286

The tax on the Group's revenues over expenses before income tax differs from the theoretical amount that would arise using the Thailand basic tax rate as follows:

	Consolidated Financial Statements		(Unit : Thousand Ba Separate Financial Statements	
	2019	2018	2019	2018
Revenues over (under) expenses before income tax expense	(2,384,728)	2,433,575	(3,064,912)	1,549,567
Tax calculated at a tax rate of 20%	(476,945)	486,715	(612,982)	309,913
Income tax from the previous year	(9,688)	(1,542)	(9,688)	(1,720)
Cumulative loss carried forward from the previous year	(953)	-	-	-
Assessed income under Revenue Code	1,552	1,941	723	-
Income not subject to tax	(197,659)	(77,905)	(182,843)	(77,318)
Expenses additional deductible for				
tax purposes	(2,795)	(2,656)	(2,795)	(2,656)
Expenses not deductible for tax purposes Eliminated transaction between related	775,701	44,672	760,898	42,874
party, net of income tax	125,228	62,382	-	-
Revenues over expenses - Securities/Derivatives Investor				
Protection Fund, net of income tax	(170)	(3,364)	-	(3,226)
Tax credit recognized during the year	-	(31,581)	-	(31,581)
Income tax	214,271	478,662	(46,687)	236,286
The weight average applicable tax rate (%)	8.99	19.67	-	15.25

34. COMMITMENTS WITH NON-RELATED PARTIES

	Consolidated Financial Statements As at December 31,		(Unit : Th Separ Financial St As at Decen	atements
	2019	2018	2019	2018
Capital commitments				
Computer	14,460	-	14,460	-
Software	12,760	4,736	12,760	4,736
Buildings and other constructions	-	1,081	-	1,081
	27,220	5,817	27,220	5,817
Non-cancellable operating lease commitments				
Within one year	20,887	17,502	20,887	17,502
After one year but within five years	30,906	35,757	30,906	35,757
	51,793	53,259	51,793	53,259
System and building maintenance commitments				
Within one year	97,917	139,603	97,917	139,603
After one year but within five years	40,463	56,373	40,463	56,373
	138,380	195,976	138,380	195,976

35. FAIR VALUE

35.1 Fair value estimation

The fair value of the financial instruments are defined into the following three different levels by valuation method as follows:

- Level 1: Quoted prices (unadjusted) in active markets for identical assets or liabilities.
- Level 2: Inputs other than quoted prices included within level 1 that are observable for the asset or liability, either directly (that is, as prices) or indirectly (that is, derived from prices).
- Level 3: Inputs for the asset or liability that are not based on observable market data (that is, unobservable inputs).

The following table presents the Group's financial assets and liabilities that are measured at fair value as at December 31, 2019 and 2018.

	C	onsolidated Fina 201	ncial Statemen	housand Baht) Its
	Level 1	Level 2	Level 3	Total
Trading securities	-	10,472,702	-	10,472,702
Available-for-sales	1,543,835	6,949,265	-	8,493,100
Total	1,543,835	17,421,967	-	18,965,802
	_			housand Baht)
	C	onsolidated Fina 201		its
	Level 1	Level 2	o Level 3	Total
Trading securities	-	10,035,852	-	10,035,852
Available-for-sales	666,596	10,798,050	-	11,464,646
Total	666,596	20,833,902	-	21,500,498
			(Unit : T	housand Baht)
		Separate Financ		
	Level 1	201 Level 2	Level 3	Total
Trading securities	Level 1		-	Total 1,198,404
Trading securities Available-for-sales	Level 1 - 1,543,835	Level 2	-	
6	-	Level 2	-	1,198,404
Available-for-sales	- 1,543,835	Level 2 1,198,404 6,949,265	Level 3 - -	1,198,404 8,493,100
Available-for-sales	1,543,835 1,543,835	Level 2 1,198,404 6,949,265	Level 3 - - - - (Unit : T	1,198,404 8,493,100 9,691,504
Available-for-sales	<u>1,543,835</u> <u>1,543,835</u>	Level 2 1,198,404 6,949,265 8,147,669 Separate Finance 201	Level 3 - - - (Unit : T ial Statements 8	1,198,404 8,493,100 9,691,504 housand Baht)
Available-for-sales	1,543,835 1,543,835	Level 2 1,198,404 6,949,265 8,147,669 Separate Finance	Level 3 - - - - (Unit : T ial Statements	1,198,404 8,493,100 9,691,504
Available-for-sales	<u>1,543,835</u> <u>1,543,835</u>	Level 2 1,198,404 6,949,265 8,147,669 Separate Finance 201	Level 3 - - - (Unit : T ial Statements 8	1,198,404 8,493,100 9,691,504 housand Baht)
Available-for-sales Total	<u>1,543,835</u> <u>1,543,835</u>	Level 2 1,198,404 6,949,265 8,147,669 Separate Financ 201 Level 2	Level 3 - - - (Unit : T ial Statements 8	1,198,404 8,493,100 9,691,504 housand Baht) Total

The following table presents the Group's financial assets and liabilities that are not measured at fair value at December 31, 2019 and 2018.

		Consolidated Fina 20	ncial Statemen	'housand Baht) nts
	Level 1	Level 2	Level 3	Total
Held-to-maturity investments	-	8,772,169	-	8,772,169
General investments		-	36,861	36,861
Total		8,772,169	36,861	8,809,030
				'housand Baht)
		Consolidated Fina 20		nts
	Level 1	Level 2	Level 3	Total
Held-to-maturity investments	-	9,318,107	-	9,318,107
General investments	-		12,361	12,361
Total	_	9,318,107	12,361	9,330,468
		Separate Finan 20	cial Statements	housand Baht)
	Level 1	Separate Finance 201 Level 2	cial Statements	
Held-to-maturity investments	Level 1	202	cial Statements 19 Level 3 -	
General investments	Level 1 - -	20 Level 2 1,411,316	Level 3	Total 1,411,316 36,861
	Level 1 - - -	201 Level 2	cial Statements 19 Level 3 -	Total 1,411,316
General investments	Level 1 - - -	20 Level 2 1,411,316 	cial Statements 19 Level 3 - 36,861 36,861 (Unit : T	Total 1,411,316 <u>36,861</u> <u>1,448,177</u> Thousand Baht)
General investments	Level 1 - - -	201 Level 2 1,411,316 	cial Statements 19 Level 3 <u>36,861</u> <u>36,861</u> (Unit : T cial Statements	Total 1,411,316 <u>36,861</u> <u>1,448,177</u> Thousand Baht)
General investments	Level 1 - - - Level 1	20 Level 2 1,411,316 	cial Statements 19 Level 3 <u>36,861</u> <u>36,861</u> (Unit : T cial Statements	Total 1,411,316 <u>36,861</u> <u>1,448,177</u> Thousand Baht)
General investments Total Held-to-maturity investments		201 Level 2 1,411,316 	cial Statements 19 Level 3 <u>36,861</u> <u>36,861</u> (Unit : T cial Statements 18 Level 3 -	Total 1,411,316 36,861 1,448,177 Thousand Baht) Total 1,229,584
General investments Total		201 Level 2 1,411,316 1,411,316 Separate Financ 201 Level 2	cial Statements 19 Level 3 36,861 36,861 (Unit : T cial Statements 18 Level 3	Total 1,411,316 36,861 1,448,177 Thousand Baht) Total

There was no transfers between Levels 1 and 2 during the year.

Other financial instruments not carried at fair value are typically short-term in nature and reprice to current market rate frequently. Accordingly, their carrying amount is a reasonable approximation of fair value. These financial instruments include cash and cash equivalents, cash at banks for financial benefits payable, assets for margin deposits and benefits, accounts receivable, accrued interest receivable, deposits and other benefits in assets for clearing system protection, deposits and other benefits in Securities Investor Protection Fund, deposits and other benefits in Derivatives Investor Protection Fund, accounts payable and short-term borrowings from subsidiaries.

The management believes that the fair value of the Group's financial assets and liabilities does not materially differ from their carrying value.

Valuation techniques used to derive Level 1 fair values

Available-for-sale securities which are listed in the Stock Exchange of Thailand or foreign stock exchanges as shown in long-term investments and Securities Investor Protection Fund. The fair value of investments is measured by using last bid price at the close of business on the statement of financial position date by reference to the other Stock Exchange in which such securities are listed.

Valuation techniques used to derive Level 2 fair values

Other available-for-sale securities presented as short-term investments, long-term investments and Securities Investor Protection Fund. The fair value of investments is measured by using last bid price at the close of business on the statement of financial position date by reference to the Association of Investment Management Companies.

Held-to-maturity investments and trading securities include fixed deposit accounts, bonds and debentures. The fair value of fixed deposit accounts, is measured by using discounted cash flows based on each contract with an average yield of 4 commercial banks. The fair value of bonds and debentures are measured by using the price published in the Thai Bond Market Association at the end of the date in the statement of financial position.

Valuation techniques used to derive Level 3 fair values

As the Group has a general investments in limited companies which the Group's shareholding was insignificant, the Group has no controlling and decision making power in the invested companies resulting in difficulty in obtaining the information to support the fair value valuation in practice. These investments are not in the stock exchange and do not have any market prices which can be used as fair value. The Group also do not have any plan for selling these investments, so the Group did not assess the fair value for the general investments. Therefore, the Group cannot disclose the fair value of the general investments in the notes to the financial statements and have stated these investments at cost less allowance for impairment (if any).

36. CONTINGENT ASSETS AND CONTINGENT LIABILITIES

36.1 Contingent assets

The Group

In 2012, the Group sued the group of insurance companies for the fire damages of the Stock Exchange of Thailand building (previous office building) in 2010, seeking compensation for the damages under the insurance contract and coverage amounting to Baht 123 million plus interest rate at 7.50% per annum. On April 30, 2019, the Supreme Court issued a judgment ordering the group of insurance companies to make proportionate payment to the Group with interest rate at 7.50% per annum. Subsequently, on August 20, 2019, the Group received the full compensation (see Note 28).

36.2 Contingent liabilities

36.2.1 SET

As at December 31, 2019, SET has letters of guarantee issued by banks totalling Baht 5.13 million (2018: Baht 5.13 million) in respect of electricity usage in the ordinary course of business from which management anticipates that no material liabilities will arise.

SET has issued a letter of comfort to a bank in respect of an overdraft credit line of Baht 2,400 million (2018: Baht 2,400 million) granted to Thailand Clearing House Co., Ltd. (TCH), a subsidiary, for clearing and settlement of equity instruments and derivatives. Under the terms of the letter of comfort, SET is required to maintain its shareholding at 99.99% of the registered share capital in TCH to the end of the credit period. In addition, SET is required to support TCH's operations to ensure its ability to repay the debt to the bank. As at December 31, 2019, TCH had not drawn down the overdraft credit line.

On December 26, 2017, SET was claimed to recourse for damages arising from not supervising member company to carry out the force selling of the plaintiff's securities in accordance with the specified regulation. The plaintiff was seeking such alleged damages totalling Baht 12.65 million. On November 20, 2019, the Appeal Court dismissed the case, and the plaintiff does not appear to appeal to the Supreme Court within the specific time. Therefore, the case has been finalized.

36.2.1 Subsidiary

36.2.2.1 On January 22, 2019, a subsidiary was claimed to recourse for the damages incurred related to the case of the wrongful acts recalling the asset and compensation from the forgery of the share certificates. The subsidiary has been claimed for the amount of Baht 76.23 million. On December 4, 2019, the Civil Court ordered the subsidiary to pay the amount of Baht 62.55 million with interest rate at 7.5% per annum, and to pay Baht 400,000 legal fee and litigation cost. The subsidiary is in the process of considering an appeal to the Appeal Court. The outcome of the case has not presently been finalized. As a result, the subsidiary did not record any transaction in relation to the above case in the 2019 financial statements.

The Group has purchased insurance policy covering professional liability (Financial Institutional Professional Indemnity Insurance) which has fully covered the liability for this case.

36.2.2.2 On December 11, 2019, a subsidiary was indicted to carry out the registration to change the name of shareholders or to pay the price of shares in the amount of Baht 495 million. As at December 31, 2019, the subsidiary was in the process of making the statement to submit to the court. Therefore, the subsidiary did not record such damages in the 2019 financial statements.

37. FINANCIAL INSTRUMENTS - FORWARD FOREIGN EXCHANGE CONTRACTS

SET has financial instruments, which their latest settlement date of forward foreign exchange contracts will be on March 30, 2020. The amount of the outstanding contracts as at December 31, 2019 and 2018 to be paid are:

	Consolidated		(Unit : Thousand Baht) Separate		
	Financial S	Financial Statements		Financial Statements	
	2019	2018	2019	2018	
US Dollar currency	2,197,292	1,501,243	2,197,292	1,501,243	

The net fair values of forward foreign exchange contracts as at December 31, were:

	Consolidated Financial Statements		(Unit : Thousand Baht) Separate Financial Statements	
	2019	2018	2019	2018
Forward foreign exchange contracts - with positive fair values	93,623	3,739	93,623	3,739

The fair value of forward foreign exchange contracts is in Level 2. They are measured based on forward foreign exchange rate comparing with Thai Baht announced by the Bank of Thailand which input that are observable.

38. RECLASSIFICATIONS

Certain reclassifications have been made in the financial statements for the year ended December 31, 2018, to conform to the classifications used in the financial statements for the year ended December 31, 2019 as follows:

Items	Previous classification Presentation	Current classification Presentation	Consolidated	it : Thousand Baht) Separate Financial Statements
Assets				
Accrued interest receivable	Accrued interest receivable	Trade and other receivable	21,177	106,121
Other receivables from sale of investments	Other current assets	Trade and other receivable	150,000	150,000
Cash at banks for dividend accounts of	Other current assets	Trade and other receivable		
investors			84,042	-
Prepaid expenses	Other current assets	Trade and other receivable	26,104	26,104
Others	Other current assets	Trade and		
		other receivable	3,311	2,465
Liabilities				
Dividend payable from registrar services to	Other current liabilities	Trade and other payable		
investors			84,042	-
Financial benefits	Other current liabilities	Trade and other payable		
payable			69,086	-
Others	Other current liabilities	Trade and other payable	24,777	19,672

39. APPROVAL OF THE FINANCIAL STATEMENTS

These financial statements have been approved for issuance by the Stock Exchange's Board of Governors on February 19, 2020.