JPMORGAN CHASE BANK, N.A. - BANGKOK BRANCH

FINANCIAL STATEMENTS
31 DECEMBER 2016



Independent auditor's report

To the Board of Directors of JPMorgan Chase Bank, N.A.

My opinion

In my opinion, the financial statements of JPMorgan Chase Bank, N.A. - Bangkok Branch (the Bank) present fairly, in all material respects, the financial position of Bank as at 31 December 2016, and its financial performance and its cash flows for the year then ended in accordance with Thai Financial Reporting Standards (TFRSs).

What I have audited

I have audited the accompanying financial statements of Bank, which comprise the statement of financial position as at 31 December 2016, and the statement of profit or loss and other comprehensive income and statement of changes in Head office's equity and other branches under the same entity and statement of cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

Basis for opinion

I conducted my audit in accordance with Thai Standards on Auditing (TSAs). My responsibilities under those standards are further described in the Auditor's responsibilities for the audit of the financial statements section of my report. I am independent of the Bank in accordance with the Federation of Accounting Professions under the Royal Patronage of his Majesty the King's Code of Ethics for Professional Accountants together with the ethical requirements that are relevant to my audit of the financial statements, and I have fulfilled my other ethical responsibilities in accordance with these requirements. I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my opinion.

Responsibilities of management for the financial statements

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

In preparing the financial statements, management is responsible for assessing the Bank'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 Bank or to cease operations, or has no realistic alternative but to do so.



Auditor's responsibilities for the audit of the financial statements

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

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

- Identify and assess the risks of material misstatement of the financial statements, whether
 due to fraud or error, design and perform audit procedures responsive to those risks, and
 obtain audit evidence that is sufficient and appropriate to provide a basis for my opinion. The
 risk of not detecting a material misstatement resulting from fraud is higher than for one
 resulting from error, as fraud may involve collusion, forgery, intentional omissions,
 misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit
 procedures that are appropriate in the circumstances, but not for the purpose of expressing
 an opinion on the effectiveness of the Bank'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 Bank's ability to continue as a going concern. If I conclude that a material uncertainty exists, I am required to draw attention in my auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify my opinion. My conclusions are based on the audit evidence obtained up to the date of my auditor's report. However, future events or conditions may cause the Bank to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including
 the disclosures, and whether the financial statements represent the underlying transactions
 and events in a manner that achieves fair presentation.

I communicate with management regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that I identify during my audit.

PricewaterhouseCoopers ABAS Ltd.

Sinsiri Thangsombat

Certified Public Accountant (Thailand) No. 7352 Bangkok

20 April 2017

		2016	2015
	Notes	Baht	Baht
Assets			
Cash		1,420,957	5,096,577
Interbank and money market items, net	6	6,737,234,700	4,674,651,520
Accounts receivable from securities trading		367,494,168	23,391,045
Financial derivatives assets	7	20,708,273,105	25,068,095,830
Investments, net	8	29,640,564,343	33,546,804,676
Loans and accrued interest receivables	9		
Loans		1,546,803,450	4,449,583,608
Accrued interest receivables		4,973,269	9,938,809
Total loans and accrued interest receivables		1,551,776,719	4,459,522,417
Less Deferred revenue		(2,742,080)	(8,585,460)
<u>Less</u> Allowance for doubtful debts	10	(22,665,011)	(51,725,844)
Loans and accrued interest receivables, net		1,526,369,628	4,399,211,113
Equipment, net	11	26,400,750	33,451,209
Intangible assets, net	12	2,282,359	3,838,983
Deferred tax assets	17	183,634,948	115,326,330
Other assets, net	13	126,818,012	84,380,931
Total assets		59,320,492,970	67,954,248,214

(Mr. Jarin Pintusopon) Branch Manager

	Notes	2016 Baht	2015 Baht
Liabilities and Head Office's equity and balances with other branches under the same entity			
Liabilities			
Deposits	14	10,330,185,963	9,629,467,636
Interbank and money market items	15	1,323,160,076	5,186,447,481
Accounts payable from securities trading		503,687,661	1,218,374,559
Liability payable on demand		98,104,154	34,413,390
Financial liabilities designated at fair value			
through profit or loss	16	17,861,102,881	14,420,179,629
Financial derivatives liabilities	7	18,266,672,986	25,108,470,185
Provision for employee benefit plan	19	60,612,701	52,885,763
Other liabilities	18	419,445,848	1,659,019,458
Total liabilities		48,862,972,270	57,309,258,101
Head Office's equity and balances with other branches under the same entity			
Fund remitted into Thailand for maintaining			
assets under law	22	9,494,909,666	9,494,909,666
Net balance of inter-office accounts with Head Office			
and other branches under the same entity	22	698,012,051	704,494,402
Others component of accounts with head office and			
other branches under the same entity		12,101,323	16,464,415
Retained earnings		252,497,660	429,121,630
Total Head Office's equity and balances with other branches under the same entity		10,457,520,700	10,644,990,113
Total liabilities and Head Office's equity and balances			
with other branches under the same entity		59,320,492,970	67,954,248,214

JPMorgan Chase Bank, N.A. - Bangkok Branch Statement of Profit or Loss and Other Comprehensive Income For the year ended 31 December 2016

		2016	2015
	Notes	Baht	Baht
Interest income	27	850,642,580	931,246,554
Interest expense	28	(313,531,818)	(447,629,680)
Net interest income		537,110,762	483,616,874
Fee and service income	29	29,216,228	33,935,753
Fee and service expenses		(10,834,060)	(9,986,988)
Net fee and service income		18,382,168	23,948,765
Gains on trading and foreign exchange transactions	30	1,380,164,870	682,066,755
Losses from financial liabilities designated at			
fair value through profit or loss	31	(1,359,362,798)	(498,942,064)
Other operating income	32	326,452,897	166,727,531
Total operating income		902,747,899	857,417,861
Other operating expenses			
Employee expenses		301,783,683	279,997,187
Premise and equipment expenses		42,277,532	42,130,748
Taxes and duties		110,465,208	78,473,273
Others	33	537,322,721	578,632,079
Total other operating expenses		991,849,144	979,233,287
Bad debt and doubtful accounts	34	17,027,236	10,206,994
Loss before income tax		(106,128,481)	(132,022,420)
Income tax expense	35	(70,495,489)	(79,671,976)
Net loss for the year		(176,623,970)	(211,694,396)

JPMorgan Chase Bank, N.A. - Bangkok Branch Statement of Profit or Loss and Other Comprehensive Income (Cont'd) For the year ended 31 December 2016

	Note	2016 Baht	2015 Baht
Other comprehensive income (expense)			
Items that will not be subsequently reclassified to profit or loss			
Remeasurements of provision for employment benefits plan		*	3,413,081
Income tax relating to components of other comprehensive income that will not be subsequently reclassfied to profit or loss	17	V a	(682,616)
Total items that will not be subsequently			0.700.405
reclassified to profit or loss		V <u></u>	2,730,465
Items that will be subsequently reclassified to profit or loss			
Gains (losses) on changes in fair value of available-for-sale securities Income tax relating to components of other		(6,912,640)	2,084,789
comprehensive income that will be subsequently reclassfied to profit or loss	17	1,382,528	(410,540)
Total items that will be reclassified subsequently to profit or loss		(5,530,112)	1,674,249
Other comprehensive income (expense)		(5,530,112)	4,404,714
Total comprehensive expense		(182,154,082)	(207,289,682)

JPMorgan Chase Bank, N.A. - Bangkok Branch

Statement of Changes in Head Office's equity and Other Branches Under the Same Entity For the year ended 31 December 2016

				Other components of accounts with Head Office and other branches under the same entity	counts with branches entity		
	Note	Fund remitted into Thailand for maintaining assets under law Baht	Net balance of inter-office accounts with Head Office and other branches under the same entity Baht	Unrealised gain (loss) on changes in fair value of available-for-sale securities Baht	Provision for share-based payment Baht	Retained earnings Baht	Total
Balance as at 1 January 2015		9,494,909,666	1,722,702,036	(2,863,432)	16,783,059	740,650,692	11,972,182,021
Net loss for the year Decrease during the year		.00100	- (1,018,207,634)) II:	(211,034,330)	(211,694,396) (1,018,207,634)
Profit remittance to Head Office		2	31		ī	(102,565,131)	(102,565,131)
Unrealised gain on changes in fair value of available-for-sale securities		·	E .	2,084,789)(1)/	100	2,084,789
Provision for share-based payment		ĵ	i		870,539	Ñ	870,539
Remeasurements of provision for employment benefit plan		96	ā	3.	,	3,413,081	3,413,081
Income tax relating to other component of other comprehensive income for the year	17		,	(410,540)		(682,616)	(1,093,156)
Balance as at 31 December 2015		9,494,909,666	704,494,402	(1,189,183)	17,653,598	429,121,630	10,644,990,113
Balance as at 1 January 2016		9,494,909,666	704,494,402	(1,189,183)	17,653,598	429,121,630	10,644,990,113
Net profit for the year Decrease during the year		• •	(6,482,351)		i i	(1/6,623,970)	(176,623,970) (6,482,351)
Profit remittance to Head Office		3	*	*		*	•
Officialised loss on chariges in fair value of available-for-sale securities		*	*	(6,912,640)	Ē	8	(6,912,640)
Provision for share-based payment		3	(de	30	1,167,020	Ŷ	1,167,020
Income tax relating to other component of other comprehensive income for the year	17		W 1	1,382,528		ė	1,382,528
Balance as at 31 December 2016		9,494,909,666	698,012,051	(6,719,295)	18,820,618	252,497,660	10,457,520,700

	2016 Baht	2015 Baht
Cash flows from operating activities:	Bailt	Dant
Net loss from operating before income tax	(106,128,481)	(132,022,420)
Adjustments to reconcile net profit from operating before income	(1-1-), 1-1-	, , ,
tax to net cash provided by (used in) operating activities:		
Bad debt and doubtful accounts	17,027,236	10,206,994
Depreciation and amortisation	24,885,348	27,288,927
Provision for employee benefit plan	17,230,597	12,408,172
Provision for share based payment expense	1,167,020	870,539
Unrealised (gain) loss on changes in fair value of	,,,,,,	
trading securities	112,922,623	29,354,447
Amortised discount on investments in securities	(251,279,105)	(345,020,656)
Loss on write-off of equipment	44,031	415,624
Unrealised (gain) loss on changes in fair value of	,	,
financial derivative instruments	(2,481,974,474)	431,897,871
Interest income	(850,642,580)	(931,246,554)
Interest expense	313,531,818	447,629,680
Operating loss before changes in operating assets and liabilities	(3,203,215,967)	(448,217,376)
(Increase) decrease in operating assets:		
Interbank and money market items	(4,600,000,000)	605,401,707
Investments in trading securities	(2,056,315,801)	4,941,767,104
Loans	2,896,848,709	(1,631,328,611)
Other assets	(7,336,181)	(4,031,354)
Increase (decrease) in operating liabilities:		
Deposits	700,718,327	(7,896,524,139)
Interbank and money market items	(3,863,287,405)	168,837,572
Liability payable on demand	63,690,764	(634,791,170)
Financial liabilities designated at fair value	00,000,.0.	(,,,
through profit or loss	3,440,923,252	3,973,439,397
Provision for employee benefit plan	(9,503,659)	2
Other liabilities	(80,236,971)	111,422,809
Net balance of inter-office accounts with Head Office	(00,200,071)	111,422,000
and other branches under the same entity	35,125,152	(901,619,011)
		(,,,
Net cash used in operating activities before		
interest received, interest paid and		
income tax paid - carried forward	(6,682,589,780)	(1,715,643,072)

	2016 Baht	2015 Baht
Net cash used in operating activities before		
interest received, interest paid and		
income tax paid - brought forward	(6,682,589,780)	(1,715,643,072)
Interest received	810,007,460	967,185,912
Interest paid	(1,445,147,281)	(228,201,406)
Income tax paid	(165,142,755)	(154,685,014)
Net cash used in operating activities	(7,482,872,356)	(1,131,343,580)
Cash flows from investing activities:		
Purchase of investments in securities	(39,594,790,045)	(48,008,388,737)
Proceed from matured investments in securities	44,630,000,000	43,340,000,000
Purchase of equipment	(6,034,261)	(24,591,125)
Purchase of leasehold improvement		(1,524,439)
Net cash provided by (used in) investing activities	5,029,175,694	(4,694,504,301)
Cash flows from financing activities:		
Profit remittance to Head Office		(92,308,618)
Tax paid from profit remittance	_	(10,256,513)
		(102 EGE 121)
Net cash used in financing activities		(102,565,131)
Net decrease in cash and cash equivalents	(2,453,696,662)	(5,928,413,012)
Cash and cash equivalents at the beginning of the year	3,560,301,527	9,488,714,539
Cash and cash equivalents at end of the year	1,106,604,865	3,560,301,527
Cash and cash equivalents		
Cash on hand	1,420,957	5,096,577
Interbank and money market items	796,756,892	3,288,385,437
Net balance of inter-office accounts with Head Office		
and other branches under the same entity	308,427,016	266,819,513
	1,106,604,865	3,560,301,527
Non cash item:		
Accounts receivable from securities trading	367,494,168	23,391,045
Accounts payable from securities trading	503,687,661	1,218,374,559

1 General information

JPMorgan Chase Bank, N.A., which is a bank established under the law of the State of New York, United States of America, operates as a full branch in Thailand, namely Bangkok Branch, herein referred to as "the Bank". The address of the Bank's registration in Thailand is as follows:

Bubhajit Building, 20 North Sathorn Road, Silom, Bangrak, Bangkok 10500.

The Bank's financial statements have been approved for issue by the Bank's management on 20 April 2017.

2 Basis of preparation

The Bangkok Branch is a segment of JPMorgan Chase Bank, N.A. and is not a separate legal entity. The financial statements of the Thailand operations of JPMorgan Chase Bank have been prepared from the records of the Thailand operations and only reflect transaction recorded locally.

The financial statements have been prepared in accordance with procedures, policies and notifications of the Bank of Thailand regarding the preparation of the financial statements of commercial banks and Thai Financial Reporting Standards issued under the Accounting Act B.E. 2543, being those Thai Financial Reporting Standards issued under the Accounting Profession Act B.E. 2547. The primary financial statements (i.e. statement of financial position, statement of profit or loss and other comprehensive income, statement of changes in Head Office's equity and other branches under the same entity and statement of cash flows) are prepared in the format as required by the Notification of the Bank of Thailand ("BOT"), No. SorNorSor. 21/2558, "The Preparation and Format of the Financial Statements of Commercial Bank and Holding Parent Company of Financial Group" dated on 4 December 2015.

The Bank's financial statements have been prepared under the historical cost convention except some of transactions as disclosed in the accounting policies 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 Bank's accounting policies. The areas involving a higher degree of judgement or complexity, or areas where assumptions and estimates are significant to the financial statements are disclosed in note 4.

An English version of the 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.

New/revised financial reporting standards, and related interpretations

- 3.1 New/revised financial reporting standards and interpretations are effective on 1 January 2016.
 - a) New/revised financial reporting standards and interpretation which are relevant and have a significant impact to the Bank:

TAS 24 (revised 2015) TFRS 2 (revised 2015) TFRS 13 (revised 2015) Related party disclosures Share-based payment Fair value measurement

TAS 24 (revised 2015), 'Related party disclosures' includes as a related party an entity that provides key management personnel services to the reporting entity or to the parent of the reporting entity (the 'management entity'). Disclosure of the amounts charged to the reporting entity is required

TFRS 2 (revised 2015), 'Share based payments' clarifies the definition of a 'vesting condition' and separately defines 'performance condition' and 'service condition'.

TFRS 13 (revised 2015), 'Fair value measurement' is amended to clarify that the portfolio exception in TFRS 13 applies to all contracts (including non-financial contracts) within the scope of TAS 39 (when announced) or TFRS 9 (when announced).

The management has already assessed that those accounting standards have no significant impact on the Bank financial statements.

b) Financial reporting standards with minor changes

There are 40 financial reporting standards with minor changes. Those accounting standards do not have an impact on the Bank.

- 3.2 Revised financial reporting standards are effective for annual periods beginning on or after 1 January 2017. The Bank has not yet early adopted these revised standards
 - a) Financial reporting standards, which have significant changes and are relevant to the Bank:

TAS 1 (revised 2016)

Presentation of financial statements

TAS 19 (revised 2016)

Employee benefits

TAS 1 (revised 2016), the amendments provide clarifications on a number of issues, including:

- Materiality an entity should not aggregate or disaggregate information in a manner that obscures useful information. Where items are material, sufficient information must be provided to explain the impact on the financial position or performance.
- Disaggregation and subtotals line items specified in TAS 1 may need to be disaggregated where this is relevant to an understanding of the entity's financial position or performance. There is also new guidance on the use of subtotals.
- Notes confirmation that the notes do not need to be presented in a particular order.
- OCI arising from investments accounted for under the equity method the share of OCI arising from equity-accounted investments is grouped based on whether the items will or will not subsequently be reclassified to profit or loss. Each group should then be presented as a single line item in the statement of other comprehensive income.

11

New/revised financial reporting standards, and related interpretations (Cont'd)

- 3.2 Revised financial reporting standards are effective for annual periods beginning on or after 1 January 2017. The Bank has not yet early adopted these revised standards (Cont'd)
 - a) Financial reporting standards, which have significant changes and are relevant to the Bank: (Cont'd)

TAS 19 (revised 2016), the amendments clarify that when determining the discount rate for post-employment benefit obligations, it is the currency that the liabilities are denominated in that is important and not the country where they arise.

The management has already assessed that those accounting standards have no significant impact on the Bank financial statements.

b) Financial reporting standards with minor changes

There are 47 financial reporting standards with minor changes. The management assesses that they do not have an impact on the Bank financial statements

3.3 Recognition of income

Interest income on loans and receivable is recognised on an accrual basis. The Bank discontinues recognition of accrued interest income for loans overdue more than three months since the due date or there is uncertainty of collectability, and a collection basis is applied. The Bank also reverses interest income on such loans in order to comply with the Bank of Thailand's notification.

Interest on investment in debt securities is recognised as income by using the effective interest rate method.

Other income is recognised as income on an accrual basis.

3.4 Recognition of interest expenses

Interests on interbank and money market items, borrowings and deposits are recognised as expenses on an accrual basis.

3.5 Cash and cash equivalents

Cash and cash equivalents comprise of cash on hand, interbank and money market items and balance of inter-office accounts with Head Office and other branches under the same entity, other short-term highly liquid investments with maturities less than three months from an acquisition date.

3.6 Investments

Investments are recognised on the trade date.

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.

Investments that are acquired principally for the purpose of generating a profit from short-term fluctuations in price are classified as trading investments. Investments in debt securities which are classified as trading securities are carried at fair value. Fair value of traded debt securities is reference to the last quoted bid price and if securities are not traded in the established market, fair value is calculated by reference to the risk-free yield curve adjusted by an appropriate risk premium (if any). Increases or decreases in the carrying amount are recognised in the statement of profit or loss and other comprehensive income when incurred.

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. Investments in debt securities which are classified as available-for-sale securities are carried at falr value by reference to the last quoted bid price. Fair value of debt securities, not traded in the established market, is calculated using the generally accepted method which is discounted cash flow by reference to the risk-free yield curve adjusted by an appropriate risk premium (if any). Increases or decreases in the carrying amount are credited or charged against unrealised gains or losses on change in fair value of investments in securities under Head Office's equity and balances with other branches under the same entity.

Investments are initially recognised at cost, which is equal to the fair value of consideration paid plus transaction cost.

A test for decrease in value is carried out when there is a factor indicating that such investment might decrease in value. If the carrying value of the investment is greater than its recoverable amount, loss from the decrease in value is charged to the statement of profit or loss and other comprehensive income when incurred.

The Bank uses the First-in, First-out method in determining the cost of the disposed securities. Gain or loss on disposal of all types of investments is taken to the statements of comprehensive income in the period which the transactions take place.

3.7 Loans and allowance for doubtful accounts

Loans are recognised on the trade date.

Loans are generally stated at the principal amounts outstanding. The allowance increases by provisions charged to expense and decreases by write-offs, net of recoveries after receiving cash. The allowance is based on the Bank management's review and assessment of the status of an individual debtor as well as the Bank of Thailand's guidelines. Such assessment takes into consideration various factors including the risks involved, the value of collateral and the status of an individual debtor including the relationship of allowance for doubtful debts against the loan balances through the economic situation which may have an impact on the customers' ability to pay.

3.8 Equipment and depreciation

Equipment is stated at historical cost less accumulated depreciation and allowance for decrease in value (if any).

Depreciation is calculated on a straight-line basis to write off the cost of each asset over its estimated useful life as follows:

Computer equipment	3 years
Office equipment	5 years
Furniture and fixtures & fitting	10 years
Motor vehicles	5 years

The assets' residual values and useful lives are reviewed, and adjusted if appropriate, at the end of each reporting period.

Where the carrying amount of an asset is greater than its estimated recoverable amount, it is written down immediately to its recoverable amount. Estimated recoverable amount is the higher of the anticipated discounted future cash flows from the continuing use of the asset or the amount obtainable from the sale of the asset less any costs of disposal.

Gains and losses on disposals are determined by comparing proceeds with carrying amount and are included in operating profits.

Repairs and maintenance are charged to the statements of profit or loss and other comprehensive income during the accounting period in which they are incurred. The cost of major renovations 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 Bank. Major renovations are depreciated over the remaining useful life of the related asset.

3.9 Intangible assets

Acquired intangible assets are capitalised and amortised using the straight-line basis over their useful lives, generally over 4 years. Intangible assets are not revalued, but are presented at cost less accumulated amortisation. The carrying amount of each intangible asset is reviewed annually and adjusted for impairment where it is considered necessary.

The estimated useful life is reviewed and revised as necessary in every financial position date.

3.10 Leasehold right

The cost of leasehold right on building for the period of 30 years, which is presented as other assets, is amortised as an operating expense on a straight-line method over the life of the agreement.

14

3.11 Impairment of assets

Assets that have an indefinite useful life, for example goodwill, 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 recognised 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 other than goodwill that suffered an impairment are reviewed for possible reversal of the impairment at each reporting date.

3.12 Leases

Leases - where the Bank is the lessee

Leases in which a significant portion of the risks and rewards of ownership are retained by the lessor are classified as operating leases. Payments made under operating leases (net of any incentives received from the lessor) are charged to profit or loss on a straightline basis over the period of the lease.

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 recognised as an expense in the period in which such termination takes place.

3.13 Related parties

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

3.14 Foreign currency translation

a) Functional and presentation currency

Items included in the financial statements of the Bank are measured using the currency of the primary economic environment in which the entity operates ('the functional currency'). The financial statements are presented in Thai Baht, which is the Bank's functional 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 remeasured using the reference rates of exchange of the Bank of Thailand ruling at the date. 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 recognised in the profit or loss.

3.15 Derivatives

Financial derivative instruments are recognised on the trade date.

Derivative financial instruments including foreign exchange forward contracts, forward rate agreements, currency option agreements, interest rate option agreements, interest and currency swap agreements, credit derivative agreements and commodity derivative agreements are recognised at fair values. Fair values are either the market price in the market or obtained from widely used methods such as discounted cash flow models. Changes in fair value are reflected in the statements of profit or loss and other comprehensive income.

3.16 Provision for share based payment

Restricted stock units

The Bank operates a number of equity-settled share based compensation plan, under which the Bank receives services from employees as consideration of shares of the ultimate parent company. The ultimate parent company is the guarantor for share based compensation plan and the Bank does not have any obligation for the granted shares. The fair value of the granted shares is recognised as an expense in the statements of comprehensive income against its Head office's equity and balances with other branches under the same entity during the grant date and the vesting date. The Head office's equity and balances with other branches under the same entity is reversed when the Bank pays back to the ultimate parent company.

3.17 Employee benefits

The Bank has post-employment benefits both defined contribution plan and defined benefit plan.

Defined Contribution Plan or Provident Fund

The Bank operates a provident fund, being a defined contribution plan, the assets for which are held in a separate trustee-administered fund. Such fund is managed by an external fund manager in accordance with the provident fund Act. B.E. 2530. The provident fund is funded by payments from employees and contributions by the Bank. The Bank has no legal or constructive obligations to pay further contributions if the fund does not hold sufficient assets to pay all employees the benefits relating to employee service in the current and prior periods.

The Bank's contributions to the provident fund are charged to the statement of profit or loss and other comprehensive income in the period which the transactions take place.

3.17 Employee benefits (Cont'd)

Defined Benefit Plan

A defined benefit plan is a plan that is not a defined contribution plan. Typically, the defined benefit plan defines an amount of benefit that an employee will receive on retirement or retrenchment without cause, usually dependent on one or more factors such as age, years of service and compensation.

The liability recognised in the statement of financial position in respect of defined benefit plans is the present value of the defined benefit obligation at the end of the reporting period, together with adjustments for unrecognised past-service costs. 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 weighted average discount rate 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 pension liability.

Remeasurements of defined benefit plans arising from experience adjustments and changes in actuarial assumptions are recognised in other comprehensive income in the period in which they arise.

Past-service costs are recognised immediately in the statement of profit or loss and other comprehensive income.

Under Labour Laws applicable in Thailand and the Bank's employment policy, all employees completing 120 days of service are entitled to severance pay on termination or retrenchment without cause or upon retirement age of 60. The severance pay will be at the rate according to number of years of service as stipulated in the Labor Law which is currently at a maximum rate of 300 days of final salary.

Long service awards

The Bank provides long service awards to employees. The entitlement to these benefits is usually conditional on the employee remaining in service up to retirement age and the completion of a minimum service period. The expected costs of these benefits are accrued over the period of employment using the same accounting methodology as is used for defined benefit retirement plans.

Remeasurements of defined benefit plans arising from experience adjustments and changes in actuarial assumptions are recognised in other comprehensive income in the period in which they arise.

These obligations are valued in every 3 years by independent qualified actuaries.

3.18 Provisions

In addition to provisions for post-employment benefits and long service awards, provisions are recognised when the Bank 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 obligations, and a reliable estimate of the amount can be made. Where the Bank expects provisions to be reimbursed, the reimbursement is recognised as a separate asset but only when the reimbursement is virtually certain.

3.19 Offsetting

Financial assets and financial liabilities are presented in the statement of financial position by the net amount when there is a legally enforceable right to set off the recognised amounts and the Bank has an intention to settle on a net basis, or realise the financial asset and settle the financial liability simultaneously.

3.20 Current and deferred income taxes

The tax expense for the period comprises of the current and deferred income taxes. Income tax is recognised in profit or loss, except to the extent that it relates to items recognised in other comprehensive income or directly in head office's equity and balances with other branches under the same entity. In this case the income tax is also recognised in other comprehensive income or directly in head office's equity and balances with other branches under the same entity, 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 in the countries where the Bank's operates and generates taxable income. 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 recognised, 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 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 recognised or the deferred income tax liability is settled.

Deferred income tax assets are recognised 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.

3.21 Financial liabilities designated at fair value through profit or loss

The Bank designated certain borrowings upon initial recognition of financial liabilities at fair value through statements of profit or loss and other comprehensive income (fair value option); this designation cannot be changed subsequently. The fair value option is applied, as the borrowing consists of borrowing host contract and embedded derivatives that must otherwise be separated if it is not designated as fair value through profit or loss.

Financial liabilities for which the fair value option is applied are recognised in the statement of financial position as "Financial liabilities designated at fair value through profit or loss". Fair value changes relating to financial liabilities designated at fair value through profit or loss are recognised in "Gains (losses) from financial liabilities designated at fair value through profit or loss" in profit or loss.

4 Critical accounting estimates, assumptions and judgements

Estimates, assumptions and judgements are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances. The resulting accounting estimates will, by definition, seldom equal the related actual results.

a) Decrease in value of loans

The Bank maintains an allowance for doubtful accounts to reflect decrease in value of loans relating to estimated losses resulting from the inability of customers to make required payments. Management believed that estimation are reasonable.

b) Decrease in value of investments

Investments are reviewed for losses on decrease in value whenever events or changes in circumstances indicate that the carrying amount may not be recovered, in determining the losses on decrease in value. Management believed that estimation are reasonable.

c) Fair value of financial derivative Instruments

In determining the fair value of financial derivative instruments, the management has made judgement in valuing derivative instruments by using widely accepted valuation techniques and guidelines. Management believed that estimation are reasonable.

d) Post-employment benefits

In accordance with Thai Labour Law, the Bank has commitment on post-retirement benefits to employees on reaching retirement age. The present value of employee benefit liabilities recognised in the statement of financial position is determined on the present value of estimated future cash outflows for staff. The assumptions used in determining the net annual cost for employee benefits include the salary and years of services of respective employees which are payable in the future year and discount rate (government bond). Any changes in these assumptions will impact the net annual cost recorded for employee benefits. At each period ends, the Bank revises the appropriate discount rate, which represents the rate that should be used to determine the present value of future cash flows to settle the nearly reached retired employee benefits at the end of period when there are material impacts.

e) Fair value of financial liabilities designated at fair value through profit or loss

Management uses various methodologies and assumptions in the determination of Fair value. Valuations are based on discounted cash flow analyses that consider the embedded derivative and the terms and payment structure of the note.

Moreover, the embedded derivative features are considered using models such as the Black-Scholes option pricing model, simulation models, or a combination of models that use observable or unobservable valuation inputs, depending on the embedded derivative. The specific inputs used vary according to the nature of the embedded derivative features, as described in the discussion above regarding derivative valuation. Valuation adjustments may be made to ensure that financial instruments are recorded at fair value.

5 Capital risk management

The Bank's objective when managing capital is to safeguard the Bank's ability to continue as a going concern in order to provide returns for Head Office and other branches under the same entity.

The Bank maintains a capital adequacy ratio in accordance with the Act on undertaking of Banking Business B.E. 2551. Capital funds are disclosed in note 22.

6 Interbank and money market items, net (assets)

		2016	
	Demand	Time	Total
	Baht	Baht	Baht
Domestic items			
The Bank of Thailand	511,478,984	-	511,478,984
Commercial banks	214,870,829	6,000,000,000	6,214,870,829
Total	726,349,813	6,000,000,000	6,726,349,813
Add Accrued interest receivable	-	477,808	477,808
Less Allowance for doubtful accounts	_	(60,000,000)	(60,000,000)
Total domestic items, net	726,349,813	5,940,477,808	6,666,827,621
Foreign items			
Japanese Yen	8,100,515	X#2	8,100,515
Euro	45,775,055	396	45,775,055
Swiss Franc	311,458	946	311,458
Australian Dollar	6,453,602	74	6,453,602
Singapore Dollar	2,906,926	921	2,906,926
Others	6,859,523	0 ≥ 5	6,859,523
Total foreign items, net	70,407,079	-	70,407,079
Total interbank and money market items, net	796,756,892	5,940,477,808	6,737,234,700
Total interest in and meney market neme, net			
		2015	
	Demand	2015 Time	Total
	Demand Baht	2015 Time Baht	Total Baht
Domostio itamo		Time	
Domestic items The Bank of Theiland	Baht	Time Baht	Baht
Domestic items The Bank of Thailand Commercial banks		Time	
The Bank of Thailand	278,733,431	Time Baht 2,800,000,000	3,078,733,431
The Bank of Thailand Commercial banks	278,733,431 161,425,883	2,800,000,000 1,400,000,000	3,078,733,431 1,561,425,883
The Bank of Thailand Commercial banks Total	278,733,431 161,425,883	2,800,000,000 1,400,000,000 4,200,000,000	3,078,733,431 1,561,425,883 4,640,159,314
The Bank of Thailand Commercial banks Total Add Accrued interest receivable	278,733,431 161,425,883	2,800,000,000 1,400,000,000 4,200,000,000 266,083 (14,000,000)	3,078,733,431 1,561,425,883 4,640,159,314 266,083
The Bank of Thailand Commercial banks Total Add Accrued interest receivable Less Allowance for doubtful accounts Total domestic items, net	278,733,431 161,425,883 440,159,314	2,800,000,000 1,400,000,000 4,200,000,000 266,083 (14,000,000)	3,078,733,431 1,561,425,883 4,640,159,314 266,083 (14,000,000)
The Bank of Thailand Commercial banks Total Add Accrued interest receivable Less Allowance for doubtful accounts Total domestic items, net Foreign items	278,733,431 161,425,883 440,159,314 	2,800,000,000 1,400,000,000 4,200,000,000 266,083 (14,000,000)	3,078,733,431 1,561,425,883 4,640,159,314 266,083 (14,000,000) 4,626,425,397
The Bank of Thailand Commercial banks Total Add Accrued interest receivable Less Allowance for doubtful accounts Total domestic items, net Foreign items Japanese Yen	278,733,431 161,425,883 440,159,314 - - 440,159,314 5,080,306	2,800,000,000 1,400,000,000 4,200,000,000 266,083 (14,000,000)	3,078,733,431 1,561,425,883 4,640,159,314 266,083 (14,000,000) 4,626,425,397 5,080,306
The Bank of Thailand Commercial banks Total Add Accrued interest receivable Less Allowance for doubtful accounts Total domestic items, net Foreign items	278,733,431 161,425,883 440,159,314 - - 440,159,314 5,080,306 25,191,517	2,800,000,000 1,400,000,000 4,200,000,000 266,083 (14,000,000)	3,078,733,431 1,561,425,883 4,640,159,314 266,083 (14,000,000) 4,626,425,397 5,080,306 25,191,517
The Bank of Thailand Commercial banks Total Add Accrued interest receivable Less Allowance for doubtful accounts Total domestic items, net Foreign items Japanese Yen Euro	278,733,431 161,425,883 440,159,314 - - 440,159,314 5,080,306 25,191,517 8,113,190	2,800,000,000 1,400,000,000 4,200,000,000 266,083 (14,000,000)	3,078,733,431 1,561,425,883 4,640,159,314 266,083 (14,000,000) 4,626,425,397 5,080,306 25,191,517 8,113,190
The Bank of Thailand Commercial banks Total Add Accrued interest receivable Less Allowance for doubtful accounts Total domestic items, net Foreign items Japanese Yen Euro Swiss Franc	278,733,431 161,425,883 440,159,314 - - 440,159,314 5,080,306 25,191,517	2,800,000,000 1,400,000,000 4,200,000,000 266,083 (14,000,000)	3,078,733,431 1,561,425,883 4,640,159,314 266,083 (14,000,000) 4,626,425,397 5,080,306 25,191,517 8,113,190 8,775,901
The Bank of Thailand Commercial banks Total Add Accrued interest receivable Less Allowance for doubtful accounts Total domestic items, net Foreign items Japanese Yen Euro Swiss Franc Australian Dollar	278,733,431 161,425,883 440,159,314 - - 440,159,314 5,080,306 25,191,517 8,113,190 8,775,901	2,800,000,000 1,400,000,000 4,200,000,000 266,083 (14,000,000)	3,078,733,431 1,561,425,883 4,640,159,314 266,083 (14,000,000) 4,626,425,397 5,080,306 25,191,517 8,113,190
The Bank of Thailand Commercial banks Total Add Accrued interest receivable Less Allowance for doubtful accounts Total domestic items, net Foreign items Japanese Yen Euro Swiss Franc Australian Dollar Singapore Dollar	278,733,431 161,425,883 440,159,314 - - 440,159,314 5,080,306 25,191,517 8,113,190 8,775,901 260,386	2,800,000,000 1,400,000,000 4,200,000,000 266,083 (14,000,000)	3,078,733,431 1,561,425,883 4,640,159,314 266,083 (14,000,000) 4,626,425,397 5,080,306 25,191,517 8,113,190 8,775,901 260,386
The Bank of Thailand Commercial banks Total Add Accrued interest receivable Less Allowance for doubtful accounts Total domestic items, net Foreign items Japanese Yen Euro Swiss Franc Australian Dollar Singapore Dollar Others	278,733,431 161,425,883 440,159,314 	2,800,000,000 1,400,000,000 4,200,000,000 266,083 (14,000,000) 4,186,266,083	3,078,733,431 1,561,425,883 4,640,159,314 266,083 (14,000,000) 4,626,425,397 5,080,306 25,191,517 8,113,190 8,775,901 260,386 804,823

7 Financial derivatives

Trading derivatives

Fair value and notional amount classified by types of risks as at 31 December 2016 and 2015 comprise of the followings:

		2016	
	Fair v	/alue	
	Assets	Liabilities	Notional amount
Types of risks	Baht	Baht	Baht
Foreign exchange rate	12,536,344,672	9,403,792,930	3,782,022,611,591
Interest rate Credit risk Index Others	8,054,202,443 72,190,361 45,535,629	7,346,157,051 624,026,837 892,696,168	1,369,843,679,896 40,626,669,075 1,215,880,502
Total trading derivatives	20,708,273,105	18,266,672,986	5,193,708,841,064
		2015	
	Fair	value	
	Fair v Assets	value Liabilities	Notional amount
Types of risks			Notional amount Baht
	Assets	Liabilities	
Types of risks Foreign exchange rate Interest rate Credit risk Other	Assets Baht	Liabilities Baht	Baht

Proportion of derivative contract balances as at 31 December 2016 and 2015 classified by counterparties comprise of the followings:

	2016 Percentage	2015 Percentage
Financial institutions Affiliated companies	39 59	74 22
Third parties	2	4
Total trading derivatives	100	100

8	Investments, net	2016 Fair value Baht	2015 Fair value Baht
	Trading securities Government	10,658,119,873	9,773,516,716
	Total	10,658,119,873	9,773,516,716
	Available-for-sale securities Government	18,982,444,470	23,773,287,960

18,982,444,470 23,773,287,960 Total 29,640,564,343 33,546,804,676 Total investment, net

Loans and accrued interest receivables, net 9

9.1 Classified by types of loans:

	2016 Baht	2015 Baht
Loans	1,546,803,450	4,449,583,608
Total loans	1,546,803,450	4,449,583,608
<u>Less</u> Deferred revenue	(2,742,080)	(8,585,460)
Total loans net from deferred revenue	1,544,061,370	4,440,998,148
Add Accrued interest receivables	4,973,269	9,938,809
Total loans net from deferred revenue, adding		
accrued interest receivables	1,549,034,639	4,450,936,957
<u>Less</u> Allowance for doubtful accounts	(22,665,011)	(51,725,844)
Total loans and interest receivables, net	1,526,369,628	4,399,211,113

Classified by currencies and domiciles of customers:

	2016		
	Domestic Baht	Foreign Baht	Total Baht
Thai Baht	_1,544,061,370	2	1,544,061,370
Total loans net from deferred revenue	1,544,061,370	<u> </u>	1,544,061,370

	2015			
	Domestic Baht	Foreign Baht	Total Baht	
Thai Baht	2,820,704,696		2,820,704,696	
US Dollar	1,620,293,452		1,620,293,452	
Total loans net from deferred revenue	4,440,998,148		4,440,998,148	

9 Loans and accrued interest receivables, net (Cont'd)

9.3 Classified by types of business and classification:

			201	6		
	Normal Baht	Special mentioned Baht	Substandard Baht	Doubtful Baht	Doubtful of loss Baht	Total
Manufacturing and commerce Utilities and services Others	1,046,805,490 489,958,509		1.81 1.81 1.81 1.81		5,861,295 1,436,076	489,958,509
Total loans net from deferred revenue	1,536,763,999				7,297,371	1,544,061,370
	-		2015			
	Normal Baht	Special mentioned Baht	Substandard Baht	Doubtful Baht	Doubtful of loss Baht	Total Baht
Manufacturing and commerce Utilities and services Others	3,759,460,467 674,148,028	4 3 18	(* : (* :		5,861,295 1,528,358	3,765,321,762 674,148,028 1,528,358
Total loans net from deferred revenue	4,433,608,495				7,389,653	4,440,998,148

9.4 Classified by classification:

The Bank has loans net from deferred revenue and accrued interest receivables and the allowance for doubtful accounts which can be classified in accordance with the Bank of Thailand (BOT) guidelines as follows:

		2016		
	Loans net from deferred revenue and accrued interest	Net amount used as a basis for setting allowance for doubtful	Allowance for doub	tful accounts
Classification	receivables Baht	accounts Baht	according to BOT guidelines	allowance Baht
Normal Doubtful of loss	1,541,737,268 7,297,371	1,536,763,999 7,297,371	1 100	15,367,640 7,297,371
Total	1,549,034,639	1,544,061,370	% =	22,665,011
	34	2015		
Classification	Loans net from deferred revenue and accrued interest receivables Baht	Net amount used as a basis for setting allowance for doubtful accounts Baht	Minimum % required according to BOT guidelines	Total Allowance Baht
Normal Doubtful of loss	4,443,547,198 7,389,759	4,433,608,494 7,389,759	1 100	44,336,085 7,389,759
Total	4,450,936,957	4,440,998,253		51,725,844

10 Allowance for doubtful accounts

			201	6		
	Normal Baht	Special mentioned Baht	Substandard Baht	Doubtful Baht	Doubtful of loss Baht	Total Baht
Balance at the beginning of the year Allowance for doubtful	44,336,085		5.	8	7,389,759	51,725,844
accounts (Reversal) (Note 34)	(28,968,445)				(92,388)	(29,060,833)
Balance at the end of the year	15,367,640	<u> </u>			7,297,371	22,665,011
			201	5		
	Normal Baht	Special mentioned Baht	Substandard Baht	Doubtful Baht	Doubtful of loss Baht	Total Baht
Balance at the beginning of the year Allowance for doubtful	28,022,272		*	*	7,442,561	35,464,833
accounts (Reversal) (Note 34)	16,313,813	<u>:</u>			(52,802)	16,261,011
Balance at the end of the year	44,336,085			<u>.</u>	7,389,759	51,725,844

11 Equipment, net

	Computer equipment Baht	Office equipment Baht	Furniture and fixture Baht	Motor vehicles Baht	Fixed assets in progress Baht	Total Baht
As at 1 January 2015 Cost Less Accumulated	90,411,985	40,506,510	27,078,939	48,000	776,487	158,821,921
depreciation	(78,439,798)	(31,796,014)	(20,151,076)	(47,999)		(130,434,887)
Net book value	11,972,187	8,710,496	6,927,863	1	776,487	28,387,034
For the year ended						
Opening net book value Additions Transfer of assets Write off, net Depreciation charge	11,972,187 9,161,869 757,187 (158,841) (10,138,634)	8,710,496 4,890,973 (4,645) (3,223,512)	6,927,863 5,300,917 (232,838) (1,493,169)	1 *: *:	776,487 981,355 (757,187) (19,300)	28,387,034 20,335,114 (415,624) (14,855,315)
Closing net book value	11,593,768	10,373,312	10,502,773	1	981,355	33,451,209
As at 31 December 2015 Cost Less Accumulated depreciation	87,688,312 (76,094,544)	37,017,425	27,898,431 (17,395,658)	48,000 (47,999)	981,355	153,633,523 (120,182,314)
Net book value	11,593,768	10,373,312	10,502,773	1	981,355	33,451,209
For the year ended 31 December 2016 Opening net book value Additions Transfer of assets Write off, net Depreciation charge	11,593,768 2,477,278 339,355 (29,911) (7,088,168)	10,373,312 3,437,330 642,000 (7,438) (4,144,082)	10,502,773 119,653 (1,815,120)	(1)	981,355 (981,355)	33,451,209 6,034,261 (37,350) (13,047,370)
Closing net book value	7,292,322	10,301,122	8,807,306			26,400,750
As at 31 December 2016 Cost Less Accumulated	76,598,178 (69,305,856)	41,085,200 (30,784,078)	28,018,084 (19,210,778)	(*)	B)	145,701,463
depreciation						(119,300,713)
Net book value	7,292,322	10,301,122	8,807,306			26,400,750

24

12 Intangible assets, net

13

As at 1 January 2015 5,022,940 5,022,940 Cost 5,022,940 5,022,940 Less Accumulated amortisation (4,587,288) (4,587,288) Net book value 435,652 435,652 For the year ended 31 December 2015 435,652 435,652 Opening net book value 4,256,011 4,256,011 Additions 4,256,011 4,256,011 Amortisation charge (852,680) (852,680) Closing net book value 3,838,983 3,838,983 As at 31 December 2015 9,278,951 9,278,951 Cost 9,278,951 (5,439,968) Net book value 3,838,983 3,838,983 Net book value 3,838,983 3,838,983 Write off, net (6,681) (6,681) Amortisation charge (1,549,943) (1,549,943) Closing net book value 2,282,359 2,282,359 As at 31 December 2016 2015 2016 2015 Cost 9,232,810 9,232,810 9,232,810 Less Accumulated amortisation		Computer software Baht	Total Baht
Cost Less Accumulated amortisation 5,022,940 (4,587,288) 4,502,280 (4,587,288) Net book value 435,652 435,652 For the year ended 31 December 2015 Opening net book value 435,652 (4,256,011 (4,256,011 4,256,01 4,256,01 4,256,01 4,256,01 4,256,01 4,256,01 4,256,01 4,25	As at 1 January 2015		
Net book value 435,652 435,652 For the year ended 31 December 2015 435,652 435,652 435,652 435,652 Additions 4,256,011 4,256,011 4,256,011 4,256,011 4,256,011 4,256,011 4,256,011 A,256,011 A,256,013 A,383,983 3,838,983		5,022,940	5,022,940
For the year ended 31 December 2015 Opening net book value 4256,011 4,256,011 Amortisation charge (852,680) (852,680) Closing net book value 3,838,983 3,838,983 As at 31 December 2015 Cost 9,278,951 9,278,951 Less Accumulated amortisation (5,439,968) (5,439,968) Net book value 3,838,983 3,838,983 For the year ended 31 December 2016 Opening net book value 3,838,983 3,838,983 For the year ended 31 December 2016 Opening net book value (6,681) (6,681) Amortisation charge (1,549,943) (1,549,943) Closing net book value 2,282,359 2,282,359 Closing net book value 2,282,359 2,282,359 As at 31 December 2016 Cost 9,232,810 9,232,810 Less Accumulated amortisation (6,950,451) (6,950,451) Net book value 2,282,359 2,282,359 Other assets, net Cleasehold right and leasehold improvement, net 46,872,258 57,160,293 Accrued interest receivables 61,923,598 16,534,663 Prepaid expenses 3,989,694 3,692,834 Other receivables 14,032,462 6,993,141 Total other assets, net 126,818,012 84,380,931	<u>Less</u> Accumulated amortisation	(4,587,288)	(4,587,288)
A	Net book value	435,652	435,652
Opening net book value 435,652 435,652 Additions 4,256,011 4,256,011 4,256,011 4,256,011 4,256,011 (852,680) (852,680) (852,680) (852,680) (852,680) (852,680) (852,680) 3,838,983 3,838,983 3,838,983 3,838,983 1,839,968) (5,439,968) (5,439,968) (5,439,968) (5,439,968) (5,439,968) (5,439,968) (5,439,968) (5,439,968) (5,439,968) (5,439,968) (6,681			
Additions 4,256,011 (852,680) 4,256,011 (852,680) Amortisation charge (852,680) (852,680) Closing net book value 3,838,983 3,838,983 As at 31 December 2015		435 652	435 652
Amortisation charge (852,680) (852,680) Closing net book value 3,838,983 3,838,983 As at 31 December 2015 9,278,951 9,278,951 Cost 9,278,951 9,278,951 Less Accumulated amortisation (5,439,968) (5,439,968) Net book value 3,838,983 3,838,983 For the year ended 31 December 2016 (6,681) (6,681) Opening net book value 3,838,983 3,838,983 Write off, net (6,681) (6,681) (6,681) Amortisation charge (1,549,943) (1,549,943) (1,549,943) Closing net book value 2,282,359 2,282,359 As at 31 December 2016 9,232,810 9,232,810 Cost 9,232,810 9,232,810 Less Accumulated amortisation (6,950,451) (6,950,451) Net book value 2,282,359 2,282,359 Other assets, net Leasehold right and leasehold improvement, net 46,872,258 57,160,293 Accrued interest receivables 61,923,598 16,534,663 <td>. •</td> <td></td> <td></td>	. •		
Closing net book value 3,838,983 3,838,983 As at 31 December 2015 9,278,951 9,278,951 1,278,951 Less Accumulated amortisation (5,439,968) (5,439,968) (5,439,968) Net book value 3,838,983 3,838,983 3,838,983 For the year ended 31 December 2016 3,838,983 3,838,983 3,838,983 Write off, net (6,681) (6,681) (6,681) (6,681) (6,681) (6,681) (1,549,943)			
As at 31 December 2015 Cost Less Accumulated amortisation Net book value 3,838,983 3,838,983 3,838,983 For the year ended 31 December 2016 Opening net book value 3,838,983 3,838,983 3,838,983 Write off, net (6,681) Amortisation charge (1,549,943) Closing net book value 2,282,359 2,282,359 As at 31 December 2016 Cost Cost (9,232,810 9,232,810 9,232,810 (6,950,451) Net book value 2,282,359 2,282,359 Other assets, net Lease hold right and leasehold improvement, net Accrued interest receivables Prepaid expenses 3,989,694 3,692,834 Other receivables 14,032,462 6,993,141 Total other assets, net 126,818,012 84,380,931	<u>.</u>	3,838,983	3,838,983
Cost 9,278,951 9,278,951 Less Accumulated amortisation (5,439,968) (5,439,968) Net book value 3,838,983 3,838,983 For the year ended 31 December 2016 Opening net book value 3,838,983 3,838,983 Write off, net (6,681) (6,681) Amortisation charge (1,549,943) (1,549,943) Closing net book value 2,282,359 2,282,359 As at 31 December 2016 9,232,810 9,232,810 Cost 9,232,810 9,232,810 Less Accumulated amortisation (6,950,451) (6,950,451) Net book value 2,282,359 2,282,359 Other assets, net Leasehold right and leasehold improvement, net 46,872,258 57,160,293 Accrued interest receivables 61,923,598 16,534,663 Prepaid expenses 3,989,694 3,692,834 Other receivables 14,032,462 6,993,141 Total other assets, net 126,818,012 84,380,931	•		
Less Accumulated amortisation (5,439,968) (5,439,968) Net book value 3,838,983 3,838,983 For the year ended 31 December 2016 3,838,983 3,838,983 Opening net book value 3,838,983 3,838,983 Write off, net (6,681) (6,681) Amortisation charge (1,549,943) (1,549,943) Closing net book value 2,282,359 2,282,359 As at 31 December 2016 9,232,810 9,232,810 Cost 9,232,810 9,232,810 Less Accumulated amortisation (6,950,451) (6,950,451) Net book value 2,282,359 2,282,359 Other assets, net Leasehold right and leasehold improvement, net Accrued interest receivables 46,872,258 57,160,293 Accrued interest receivables 61,923,598 16,534,663 Prepaid expenses 3,989,694 3,692,834 Other receivables 14,032,462 6,993,141 Total other assets, net 126,818,012 84,380,931		0.070.051	0.070.051
Net book value 3,838,983 3,838,983 For the year ended 31 December 2016 3,838,983 3,838,983 Opening net book value 3,838,983 3,838,983 Write off, net (6,681) (6,681) Amortisation charge (1,549,943) (1,549,943) Closing net book value 2,282,359 2,282,359 As at 31 December 2016 9,232,810 9,232,810 Cost 9,232,810 (6,950,451) Less Accumulated amortisation (6,950,451) (6,950,451) Net book value 2,282,359 2,282,359 Other assets, net 2016 2015 Baht Baht Baht Leasehold right and leasehold improvement, net 46,872,258 57,160,293 Accrued interest receivables 61,923,598 16,534,663 Prepaid expenses 3,989,694 3,692,834 Other receivables 14,032,462 6,993,141 Total other assets, net 126,818,012 84,380,931			
For the year ended 31 December 2016 Opening net book value 3,838,983 (6,681) (6,681) Amortisation charge (1,549,943) (1,549,943) Closing net book value 2,282,359 2,282,359 As at 31 December 2016 Cost 9,232,810 9,232,810 Less Accumulated amortisation (6,950,451) (6,950,451) Net book value 2,282,359 2,282,359 Other assets, net 2016 2015 Baht Baht Leasehold right and leasehold improvement, net 46,872,258 57,160,293 Accrued interest receivables 61,923,598 16,534,663 Prepaid expenses 3,989,694 3,692,834 Other receivables 14,032,462 6,993,141 Total other assets, net 126,818,012 84,380,931 The amortisation cost of leasehold right and	Less Accumulated amortisation	·	
31 December 2016 Opening net book value 3,838,983 3,838,983 Write off, net (6,681) (6,681) Amortisation charge (1,549,943) (1,549,943) Closing net book value 2,282,359 2,282,359 As at 31 December 2016 9,232,810 9,232,810 Cost 9,232,810 (6,950,451) (6,950,451) Net book value 2,282,359 2,282,359 Other assets, net Leasehold right and leasehold improvement, net 46,872,258 57,160,293 Accrued interest receivables 61,923,598 16,534,663 Prepaid expenses 3,989,694 3,692,834 Other receivables 14,032,462 6,993,141 Total other assets, net 126,818,012 84,380,931 The amortisation cost of leasehold right and	Net book value	3,838,983	3,838,983
Opening net book value 3,838,983 (6,681) (6,681) (6,681) Write off, net (1,549,943) (1,549,943) Amortisation charge 2,282,359 2,282,359 Closing net book value 2,282,359 2,282,359 As at 31 December 2016 Cost			
Write off, net (6,681) (6,681) Amortisation charge (1,549,943) (1,549,943) Closing net book value 2,282,359 2,282,359 As at 31 December 2016 Cost	•	3 838 983	3 838 983
Amortisation charge (1,549,943) (1,549,943) Closing net book value 2,282,359 2,282,359 As at 31 December 2016 Cost			
Closing net book value 2,282,359 2,282,359 As at 31 December 2016 Cost Less Accumulated amortisation (6,950,451) 9,232,810 (6,950,451) 9,232,810 (6,950,451) Net book value 2,282,359 2,282,359 Other assets, net Leasehold right and leasehold improvement, net Accrued interest receivables 46,872,258 61,923,598 61,923,598 16,534,663 Prepaid expenses 9,398,694 14,032,462 6,993,141 57,160,293 16,534,663 14,032,462 6,993,141 Total other assets, net 126,818,012 126,818,012 84,380,931		•	12.
As at 31 December 2016 Cost 9,232,810 9,232,810 Less Accumulated amortisation (6,950,451) (6,950,451) Net book value 2,282,359 2,282,359 Other assets, net Leasehold right and leasehold improvement, net Accrued interest receivables 46,872,258 57,160,293 Accrued interest receivables 61,923,598 16,534,663 Prepaid expenses 3,989,694 3,692,834 Other receivables 14,032,462 6,993,141 Total other assets, net 126,818,012 84,380,931 The amortisation cost of leasehold right and	•	2,282,359	2,282,359
Cost Less Accumulated amortisation 9,232,810 (6,950,451) 9,232,810 (6,950,451) Net book value 2,282,359 2,282,359 Other assets, net Leasehold right and leasehold improvement, net Accrued interest receivables Prepaid expenses 46,872,258 61,923,598 16,534,663 9,989,694 3,692,834 Other receivables 57,160,293 16,534,663 3,989,694 3,692,834 Other receivables Total other assets, net 126,818,012 126,818,012 84,380,931 84,380,931	•		
Less Accumulated amortisation (6,950,451) (6,950,451) Net book value 2,282,359 2,282,359 Other assets, net 2016 Baht Baht 2015 Baht Baht Leasehold right and leasehold improvement, net Accrued interest receivables 46,872,258 57,160,293 Accrued interest receivables 61,923,598 16,534,663 Prepaid expenses 3,989,694 3,692,834 Other receivables 14,032,462 6,993,141 Total other assets, net 126,818,012 84,380,931 The amortisation cost of leasehold right and		0 232 810	0 232 B10
Net book value 2,282,359 2,282,359 Other assets, net 2016 Baht Baht 2015 Baht 8 Baht Leasehold right and leasehold improvement, net Accrued interest receivables 46,872,258 57,160,293 Accrued interest receivables 61,923,598 16,534,663 Prepaid expenses 3,989,694 3,692,834 Other receivables 14,032,462 6,993,141 Total other assets, net 126,818,012 84,380,931 The amortisation cost of leasehold right and 126,818,012 84,380,931			
Other assets, net 2016 Baht 2015 Baht Leasehold right and leasehold improvement, net Accrued interest receivables 46,872,258 57,160,293 16,534,66			
Leasehold right and leasehold improvement, net Accrued interest receivables 46,872,258 57,160,293 57,160,293 16,534,663 16,53	Net book value	2,202,003	2,202,000
Leasehold right and leasehold improvement, net Accrued interest receivables 46,872,258 57,160,293 57,160,293 16,534,663 16,53	Other assets net		
Leasehold right and leasehold improvement, net 46,872,258 57,160,293 Accrued interest receivables 61,923,598 16,534,663 Prepaid expenses 3,989,694 3,692,834 Other receivables 14,032,462 6,993,141 Total other assets, net 126,818,012 84,380,931 The amortisation cost of leasehold right and	Other addets, her		
Accrued interest receivables 61,923,598 16,534,663 Prepaid expenses 3,989,694 3,692,834 Other receivables 14,032,462 6,993,141 Total other assets, net 126,818,012 84,380,931 The amortisation cost of leasehold right and			
Accrued interest receivables 61,923,598 16,534,663 Prepaid expenses 3,989,694 3,692,834 Other receivables 14,032,462 6,993,141 Total other assets, net 126,818,012 84,380,931 The amortisation cost of leasehold right and	Loopohold right and loasehold improvement, not	46 872 258	57 160 202
Prepaid expenses 3,989,694 3,692,834 Other receivables 14,032,462 6,993,141 Total other assets, net 126,818,012 84,380,931 The amortisation cost of leasehold right and			
Other receivables 14,032,462 6,993,141 Total other assets, net 126,818,012 84,380,931 The amortisation cost of leasehold right and			
The amortisation cost of leasehold right and	•		
The amortisation cost of leasehold right and		126,818,012	84,380,931
The state of the s			
		10,288,035	11,580,932

14 **Deposits**

14.1 Classified by types of deposits:

	2016 Baht	2015 Baht
On demand Savings Fixed	5,794,659,611 4,210,526,352 325,000,000	4,059,311,138 5,492,156,498 78,000,000
Total deposits	10,330,185,963	9,629,467,636

14.2 Classified by currencies and domiciles of depositors:

		2016	
	Domestic Baht	Foreign Baht	Total Baht
Thai Baht	6,586,226,449	102,913,660	6,689,140,109
US Dollar	3,614,873,945	5,010,771	3,619,884,716
Euro	21,161,138		21,161,138
Total deposits	10,222,261,532	107,924,431	10,330,185,963
		2015	
	Domestic	Foreign	Total
	Baht	Baht	Baht
Thai Baht	5,429,308,768	390	5,429,309,158
US Dollar	4,186,599,584	275,947	4,186,875,531
Euro	13,282,947		13,282,947

9,629,191,299

Interbank and money market items (liabilities) 15

Euro

Total deposits

	2016		
	Demand Baht	Time Baht	Total Baht
Domestic items Other financial institutions	20,837,146	1,300,000,000	1,320,837,146
Total domestic items	20,837,146	1,300,000,000	1,320,837,146
Foreign items Thai Baht	2,322,930	-	2,322,930
Total foreign items	2,322,930		2,322,930
Total interbank and money market items	23,160,076	1,300,000,000	1,323,160,076

9,629,467,636

276,337

15 Interbank and money market items (liabilities) (Cont'd)

	v.		2015	
		Demand Baht	Time Baht	Total Baht
	Domestic items Other financial institutions	36,150,649	5,150,000,000	5,186,150,649
	Total domestic items	36,150,649	5,150,000,000	5,186,150,649
	Foreign items Thai Baht	296,832	-	296,832
	Total foreign items	296,832	-	296,832
	Total interbank and money market items	36,447,481	5,150,000,000	5,186,447,481
16	Financial liabilities designated at fair value th	rough profit o	r loss	
		-	2016 Baht	2015 Baht
	Bill of exchange	_1	7,861,102,881	14,420,179,629
	Total financial liabilities designated at fair value through profit or loss	_1	7,861,102,881	14,420,179,629
	Proportion of transactions being classified by	y type of coun	terparties	
			2016 Percentage	2015 Percentage
	Financial institutions	_	100	100
	Total proportion of transactions being classified l type of counterparties	ру —	100	100
	Changes in fair value due to credit risks			
			2016 Baht	2015 Baht
	Balance of unrealised gain at beginning of the ye Decrease during the year	ear	183,623,964 (686,663,969)	622,512,631 (507,767,679)
	Translation adjustment	:: <u></u>	509,322,201	68,879,012
	Balance unrealised gain (loss) at end of the year		6,282,196	183,623,964

17 Deferred income tax

The analysis of deferred tax assets and liabilities is as follows:

	2016 Baht	2015 Baht
Deferred tax assets: Deferred tax asset to be recovered within 12 months Deferred tax asset to be recovered after more than 12 months	584,283 197,032,927	309,101 166,461,006
Deferred tax liabilities:	197,617,210	166,770,107
Deferred tax liabilities to be settled within 12 months Deferred tax liability to be settled after more than 12 months	(13,982,262)	(14,066,596) (37,377,181)
	(13,982,262) 183,634,948	(51,443,777)
Deferred tax assets (liabilities) (net) The gross movement and the deferred income tax account is		,
	2016 Baht	2015 Baht
As at 1 January Credited to profit or loss Tax (debited) credited in other comprehensive income	115,326,330 66,926,090 1,382,528	(35,411,884) 151,831,370 (1,093,156)
As at 31 December	183,634,948	115,326,330

JPMorgan Chase Bank, N.A. - Bangkok Branch Notes to the Financial Statements For the year ended 31 December 2016

17 Deferred income tax (Cont'd)

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

Total Baht	166,770,107 30,700,168	146,935	197,617,210	110,739,880 56,716,757	(686,530)	166,770,107
Others Baht	1,850,569	·	2,035,626	1,942,573 (92,004)	- A	1,850,569
Losses from change in fair value of financial liabilities under fair value option Baht	355,616	*	355,616	(a)(-)a		
Provision for derivatives	150,502,566 28,252,456	1	178,755,022	96,374,551 54,128,015	*	150,502,566
Losses on changes in fair value of available-forsale securities	20,393	146,935	167,328	24,307	(3,914)	20,393
Provision for restricted stock units Baht	3,530,719 233,404	9	3,764,123	3,356,611 174,108	•	3,530,719
Provision for employee benefits	10,577,152 1,545,388	2 9 0.	12,122,540	8,778,134 2,481,634	(682,616)	10,577,152
Derivative liabilities from option sold premium Baht	288,708 128,247		416,955	263,704 25,004	a	288,708
				ssol but		
	Deferred tax assets As at 1 January 2016 Charged to profit and loss	Recognised in other comprehensive income	As at 31 December 2016	Deferred tax assets As at 1 January 2015 Charged (credited) to profit and loss	Recognised in other comprehensive income	As at 31 December 2015

JPMorgan Chase Bank, N.A. - Bangkok Branch Notes to the Financial Statements For the year ended 31 December 2016

17 Deferred income tax (Cont'd)

Gain from change in fair value of financial liabilities under fair value option Baht	36,724,794 51,443,777 (36,724,794) (36,225,922)	13,982,262	124,502,527 146,151,764 (87,777,733) (95,114,613)	36,724,794 51,443,777
Derivative assets for option purchased premium Baht	131,800 7,449,066	7,580,866	131,800	131,800
Gain on changes in fair value of available-for- sale securities Baht	1,235,593	1	828,967	1,235,593
Gain on changes in fair value of trading securities	13,351,590 (6,950,194)	6,401,396	20,820,270 (7,468,680)	13,351,590
	Deferred tax liabilities As at 1 January 2016 Charged (credited) to profit and loss Recognised in other comprehensive income	As at 31 December 2016	Deferred tax liabilities As at 1 January 2015 Charged (credited) to profit and loss Recognised in other comprehensive income	As at 31 December 2015

18 Other liabilities

	2016 Baht	2015 Baht
Accrued interest payable	1,833,352	1,133,448,815
Accrued bonuses	60,522,507	55,391,445
Accrued FIDF charges	45,712,192	45,068,187
Cash received in advance from forward contracts	112,683,181	231,860,596
Income tax payable	56,463,701	84,184,877
Withholding tax payable	42,104,350	47,373,765
Others	100,126,565	61,691,773
Total other liabilities	419,445,848	1,659,019,458

19 Provision for employment benefits plan

Provision for post-employment benefits is for employees with more than 120 days of service and who resign in accordance with the rules and conditions stipulated under the labour laws applicable in Thailand and for long service awards.

As at 31 December 2016 and 2015, the post-employment benefits provided unfunded obligation as follows:

	2016 Baht	2015 Baht
Present value of obligations	57,682,597	50,393,381
Provision for long service award	2,930,104	2,492,382
Total provision for employee benefits plan	60,612,701	52,885,763
Movements of provision for post-employment benefits are a	as follows:	
	2016 Baht	2015 Baht
As at 1 January	50,393,381	41,548,395
Current service costs	14,847,070	11,113,003
Interest costs Remeasurements:	1,662,980	1,810,064
Actuarial (gains) losses - Demographic assumptions	=	(3,306,323)
- Financial assumptions	7	7,172,654
- Experience (gains)/loss	.	(7,077,741)
<u>Less</u> Benefits paid for the year	(9,220,834)	(866,671)
As at 31 December	57,682,597	50,393,381

19 Provision for post-employment benefits (Cont'd)

Expenses for post-employment benefits were recognised in the statement of profit or loss and other comprehensive income as follows:

	2016 Baht	2015 Baht
Current service costs	14,847,070	11,113,003
Interest costs	1,662,980	1,810,064
Remeasurements	-	(3,211,410)
Total	16,510,050	9,711,657

Significant assumptions used in the actuarial calculation are summarised as follows:

	2016	2015
Discount rate	3.30%	3.30%
Salary increase rate	11%	11%
Pre-retirement mortality rate	100% of Thai Mortality	100% of Thai Mortality
	Ordinary Table 2008	Ordinary Table 2008
Disability rate	5% of Thai Mortality	5% of Thai Mortality
•	Ordinary Table 2008	Ordinary Table 2008
Pre-retirement withdrawal rate	From 5 years historical data	From 5 years historical data
Retirement age	60 years old	60 years old
Turnover rate	9%	9%

Sensitivity analysis on key assumptions changes are as follows:

	Increase (D	Increase (Decrease)	
	2016 Baht	2015 Baht	
Discount rate Increase 1% Decrease 1%	(8,234,193) 9,721,652	(6,492,688) 7,707,795	
Salary rate Increase 1% Decrease 1%	9,868,782 (8,517,209)	7,269,718 (6,289,974)	
Turnover rate Increase 1% Decrease 1%	(33,875,929) 27,262,349	(26,461,747) 22,967,508	

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 provision for post-employment benefits recognised within the statement of financial position.

The methods and types of assumptions used in preparing the sensitivity analysis did not change compared to the previous year.

19 Provision for post-employment benefits (Cont'd)

Maturity profile of post-employment benefits is as follows:

	2016	2015
Maturity duration of the post-employment benefits (Years)	20.31	21.44
Maturity analysis of benefits to be paid		
Less than 1 year (Baht)	≅ 6	=
Between 1 - 2 years (Baht)	7,145,910	2,656,915
Between 2 - 5 years (Baht)	1,503,586,907	1,487,272,364
Over 5 years (Baht)	·	=

20 Provident fund

The Bank established a contributory registered provident fund in accordance with the Provident Fund Act B.E. 2530, which contributions are made by both the employees and the Bank. For the year ended 31 December 2016, the Bank contributed Baht 11.7 million (31 December 2015: Baht 11.6 million).

21 Provision for share based payment

The restricted stock units of the ultimate parent company, JPMorgan Chase & Co., will be awarded at no cost to employees who are eligible according to the group entity's regulations, upon their grant. The awards are measured at their grant dates based on their fair value. This amount is recognised as an expense evenly over the vesting periods and the head office's equity and balances with other branches under the same entity is treated as a capital contribution. The exercise price of the granted shares is lower of the market price of the shares on the date of grant or the vesting date. The restricted stock units are generally granted annually and can be vested for 50% of granted amount after two years and for another 50% of granted amount after three years. The restricted stock units are converted into shares of JPMorgan Chase & Co. at the vesting date. The employees are able to continue their vesting upon voluntary employment termination, which would be based on the age and year of service requirements. Before vesting, the restricted stock units entitle the recipient to receive cash payments equivalent to dividend paid on the underlying common stocks during the period the restricted stock units are outstanding. However, all of these awards are subject to forfeiture until the vesting date and they contain clawback provisions that may result in cancellation prior to vesting under certain specified circumstances.

21 Provision for share based payment (Cont'd)

The movements in the number of outstanding shares and their related weighted average share prices at the grant dates are as follows:

	Average price Baht per share	Average price USD per share	Number of awards
As at 1 January 2016	1,963.20	54.40	9,746
Granted during the year	2,050.95	57.24	4,412
Exercised during the year	2,114.73	59.02	(4,872)
Transferred during the year	2,055.61	57.37	560
As at 31 December 2016	2,055.61	57.37	9,846
As at 1 January 2015	1,583.42	48.04	13,833
Granted during the year	2,017.59	55.91	3,811
Exercised during the year	2,130.49	59.04	(6,068)
Cancelled during the year	1,975.19	54.73	(1,830)
As at 31 December 2015	1,963.20	54.40	9,746

For the year ended 31 December 2016, the total share based payment expense recognised during the year amounting to Baht 6.3 million (31 December 2015: Baht 3.6 million).

22 Capital funds

- Capital Talias	2016 Baht	2015 Baht
Assets maintained in accordance with Section 32	9,662,837,715	9,666,804,387
Total funds for maintaining assets in accordance with Section 32 and net balance of inter-office accounts		
Funds for maintaining assets in accordance with Section 32 Net inter-office balance which branch is debtor	9,494,909,666	9,494,909,666
of the head office, others branches and subsidiary	698,012,051	704,494,402
Total	10,192,921,717	10,199,404,068
Total fund are remitted into Thailand for maintaining		
assets under section 32	9,494,909,666	9,494,909,666
Total deductions that the Bank of Thailand requires to deduct from capital	(2,282,359)	(3,838,983)
Capital funds	9,492,627,307	9,491,070,683
Total capital funds to risk weighted assets ratio (%)	15.64	14.75

The Bank will disclose capital maintenance information as at 31 December 2016 in accordance with the notification of the Bank of Thailand Re: Public Disclosure of Capital Maintenance Information for Commercial Banks on its website at www.th.jpmorgan.com within April 2017.

23 Assets pledged as collateral

The Bank has investments in government securities which are pledged as collaterals for structured bills of exchange. The book values of such securities as at 31 December 2016 amounted to Baht 6,376,096,623 (31 December 2015: Baht 4,262,808,523).

24 Commitments

As at 31 December 2016 and 2015, the Bank has the following commitments (excluding derivatives in Note 7) which were incurred in the normal course of business as follows:

		2016	
	Thai Baht Baht	Foreign currencies Baht	Total Baht
Guarantees Unused overdraft credit line Unused credit facilities	91,834,327 680,000,000	338,578,329 - 2,615,637,450	430,412,656 680,000,000 2,615,637,450
Total commitments	771,834,327	2,954,215,779	3,726,050,106
		2015	
		Foreign	
	Thai Baht Baht	currencies Baht	Total Baht
Letter of Credit Guarantees Unused overdraft credit line Unused credit facilities	123,700,540 719,000,000	2,242,333,504 663,084,988 - 541,328,250	2,242,333,504 786,785,528 719,000,000 541,328,250
Total commitments	842,700,540	3,446,746,742	4,289,447,282

The management anticipates no material losses as a result of these transactions.

25 Related party transactions

The significant related party transactions are transacted with the Group companies of JPMorgan Chase.

The ultimate parent company is JPMorgan Chase & Co., a company incorporated in the United States of America. JPMorgan Chase Bank, N.A. is a wholly-owned subsidiary of JPMorgan Chase & Co.

Relationships of related parties

Head Office

• JPMorgan Chase & Co.

JPMorgan Chase Bank, N.A.

Other Branches

- J.P. Morgan Chase Bank Berhad
- JPMorgan Chase Bank, N.A. London Branch
- JPMorgan Chase Bank, N.A. Sydney Branch
- JPMorgan Chase Bank, N.A. Tokyo Branch
- JPMorgan Chase Bank, N.A. Hong Kong Branch
- JPMorgan Chase Bank, N.A. Singapore Branch
- JPMorgan Chase Bank, N.A. Jakarta Branch
- JPMorgan Chase Bank, N.A. Manila Branch

Fellow subsidiaries

- J.P. Morgan (S.E.A.) Limited
- J.P. Morgan A.G.
- J.P. Morgan International Finance Limited J.P. Morgan Securities Plc
- J.P. Morgan Securities (Asia Pacific) Limited
- J.P. Morgan Securities (Thailand) Limited
- J.P. Morgan Ventures Energy Corporation
- J.P. Morgan Securities Plc Paris Branch
- J.P. Morgan Australia Ltd.
- J.P. Morgan Overseas Capital Corporation
- J.P. Morgan Securities Plc. Frankfurt Branch

- J.P. Morgan Securities Asia Private Limited
- J.P. Morgan Securities LLC
- · JPMorgan Securities Japan Co., Ltd.
- · J.P. Morgan Treasury Technology Corporation
- J.P. Morgan Europe Limited
- J.P. Morgan Securities Plc Zurich Branch

25 Related party transactions (Cont'd)

The significant related party transactions, outstanding balances as of 31 December 2016 and 2015 and income and expenses for the years then ended 31 December 2016 and 2015 consisted of the followings:

	2016 Million Baht	2015 Million Baht					
Statements of financial position							
Interbank and money market items, net (assets) J.P. Morgan, A.G.	46	25					
Interbank and money market items (liabilities) J.P. Morgan Securities (Thailand) Ltd. Provision for share based payment	1,321	1,387					
J.P. Morgan Chase & Co Net balance of inter-office accounts with Head Office	19	18					
and other branches under the same entity JPMorgan Chase Bank, N.A. Other Branches	(752) 54	(718) 13					
Off statement of financial position with Head office, Other branches and Fellow subsidiaries Commitments	385,378	359,906					
Statements of profit or loss and other comprehensive income with Head office, Other branches and Fellow subsidiaries							
Interest expense Fees and service incomes Other operating income	21 13 332	18 11 162					
Employee expenses Fees and services expenses and other expenses	6 458	4 494					

Transactions between the Bank and related parties had been priced at and contain similar conditions with the Bank's general customers and conformed to normal course of banking business practice.

37

26 Important position and performance classified by type of domestic or foreign transactions

26.1 Position classified by type of transaction

		2016			2015	
	Domestic Million Baht	Foreign Million Baht	Total Million Baht	Domestic Million Baht	Foreign Million Baht	Total Million Baht
Total assets Interbank and money market items, net	58,924	? £	58,924	67,954	RE	67,954
(assets)	6,737	120	6,737	4,675	\ <u>-</u>	4,675
Investments, net Loans and accrued interest receivables,	29,641	3 - 0	29,641	33,547	Yeg	33,547
net	1,526	2 4 9	1,526	4,399	160	4,399
Deposits Interbank and money market items	10,330	S ® S	10,330	9,629		9,629
(liabilities) Financial liabilities designated at fair value	1,323) = 3	1,323	5,186	≅	5,186
through profit or loss	17,861	1993	17,861	14,420	5	14,420

26.2 Performance classified by types of transaction

	2016			2015			
	Domestic Million Baht	Foreign Million Baht	Total Million Baht	Domestic Million Baht	Foreign Million Baht	Total Million Baht	
Interest income	851	2	851	931	-	931	
Interest expense	(313)		(313)	(447)		(447)	
Net interest income Net fee and service	538	¥	538	484	(#)	484	
income	18	-	18	24	: • :	24	
Other operating incomes Other operating	347	9	347	350	1741	350	
expenses	(992)		(992)	(990)		(990)	
Profit (loss) before income tax	(89)		(89)	(132)		(132)	

27 Interest income

	2016 Baht	2015 Baht
Interbank and money market items, net (assets)	129,270,280	120,715,255
Investments and trading transactions	375,330,121	350,947,879
Investments in debt securities, available-for-sales	269,292,461	356,223,774
Loans	76,749,718	103,359,646
Total interest income	850,642,580	931,246,554

28	Interest expense	2016 Baht	2015 Baht
	Describe	04 444 000	105 005 004
	Deposits Interbank and money market items (liabilities)	24,141,208 200,005,837	105,085,964 241,167,251
	Contribution fee to the Deposit Protection Agency and	200,000,000	211,101,201
	Financial Institution Development Fund	88,248,498	100,065,010
	Others	1,136,275	1,311,455
	Total interest expense	313,531,818	447,629,680
29	Fee and service income		
		2016 Baht	2015 Baht
	Money transfer and collection services	11,134,121	11,116,364
	Fee relating to letter of credit	330,943	4,358,862
	Service fees from related companies	13,400,044	11,131,018
	Fee relating to import bill collection	287,046	1,763,670
	Others	4,064,074	5,565,839
	Total fee and service income	29,216,228	33,935,753
30	Gains on trading and foreign exchange transactions		
		2016	2015
		Baht .	Baht
	Gains on foreign currencies and foreign exchange rate derivatives	000 004 140	E47 000 000
	Gains on interest rate derivatives	238,934,142 40,348,645	547,803,908 225,385,118
	Gains (losses) on debt securities	(163,260,257)	11,306,882
	Others	1,264,142,340	(102,429,153)
	Total gains on trading and foreign exchange transactions	1,380,164,870	682,066,755
31	Losses from financial liabilities designated at fair value	through profit or l	nss
•		2016	2015
		Baht	Baht
	Changes in fair value of:	: /.	
	Bill of exchange	(1,080,039,170)	(212,318,409)
	Losses on redemption and interest expense paid	(279,323,628)	(286,623,655)
		: 	
	Total losses from financial liabilities designated at fair value through profit or loss	(1,359,362,798)	(498,942,064)
	Changes in fair value include changes in fair value due to c	redit risks are as foll	ows:
		2016 Baht	2015 Baht
	Charges in fair value due to change in credit risks	(686,663,969)	(507,767,679)

32	Other operating income		
		2016 Baht	2015 Baht
	Revenue sharing from related parties	326,339,189	162,301,155
	Others	113,708	4,426,376
	Total other operating income	326,452,897	166,727,531
33	Other expenses		
	·	2016 Baht	2015 Baht
	Service fees to related companies	457,710,746	493,719,797
	Brokerage commissions Others	13,554,307 66,057,668	20,179,347 64,732,935
		537,322,721	578,632,079
	Total other expenses	557,522,721	576,032,079
34	Bad debt and doubtful accounts		
		2016 Baht	2015 Baht
	Interbank and money market items, net	46,000,000	(6,054,017)
	Loans (Note 10)	(28,972,764)	16,261,011
	Total bad debt and doubtful accounts	17,027,236	10,206,994
35	Income tax expense		
		2016 Baht	2015 Baht
	Current income tax:		
	Current income tax on profits for the year	137,421,579	231,503,346
	Total current income tax	137,421,579	231,503,346
	Deferred income tax: Origination and reversal of temporary differences	(66,926,090)	(151,831,370)
	Total deferred income taxes	(66,926,090)	(151,831,370)
	Total income tax expense	70,495,489	79,671,976
	The income tax on profits before tax of the Bank differs from arise using the basic income tax rate of the home country of the		
		2016 Baht	2015 Baht
	Loss before tax	(106,128,481)	(132,022,420)
	Tax calculated at a tax rate of 20%	(21,225,696)	(26,404,484)
	Tax effect of: Income not subjected to tax	(98,329)	608,926
	Expenses not deductible for tax purpose	91,819,514	105,467,534
	Income tax charge	70,495,489	79,671,976
	The weighted average applicable income tax rate was 66% (31	December 2015: 6	60%).

36 Financial risk management

Strategy in using financial instruments

The Bank has developed and implemented comprehensive policies and procedures to identify, mitigate, and monitor risk across the entity, which are based on JPMorgan Chase policies. These practices rely on constant communication, judgment, and knowledge of products and markets by the people closest to them, combined with regular oversight by a central risk management group and senior management.

(a) Credit risk

Credit risk is the risk of losses resulting from failure by the Bank's counterparties and customers to meet their obligations. The carrying amount of cash, interbank and money market, investments in debts, loans to and accrued interest receivable, accounts receivable from securities trading and commitments represent the maximum exposure of the Bank to credit risk. With respect to derivative financial instruments, the maximum credit exposure of the Bank is represented by the positive fair values, mainly pertaining to derivative transactions with financial institutions, including intercompany balances.

"Know Your Customer" is the key element to credit risk management.

JPMorgan Chase has developed policies and practices that are designed to ensure that credit risks are accurately assessed, properly approved, continuously monitored and actively managed at both the transaction and portfolio levels. The policy framework establishes credit approval authorities, concentration limits, risk-rating methodologies, portfolio-review parameters and problem-loan management.

The Bank's capital will be committed following thorough research and analysis, utilising all expertise appropriately available in the utilising which may contribute to the bank risk assessment. Certain transactions will require special approval due to their risk attributes or level of sensitivity.

Officers with Credit Approval Authority are expected to understand the credit policies, guidelines and procedures applicable to their responsibilities.

The new business initiative process requires a thorough understanding of the credit risk (and all other forms of risk) inherent in all proposed activities or undertakings. New initiatives will only be introduced after appropriate new control systems are implemented, in accordance with the Bank's New Business Initiative Process.

Exposure to credit risk is managed through regular analysis of the ability of borrowers and potential borrowers to meet interest and principal repayment obligations and by changing these lending limits where appropriate. Exposure to credit risk is also managed in part by obtaining collateral if applicable.

(a) Credit risk (Cont'd)

1) Derivatives

The Bank maintains strict control limits on net open derivative positions (i.e., the difference between purchase and sale contracts), by both amount and term. At any one time, the amount subject to credit risk is limited to the current fair value of instruments that are favourable to the Bank (i.e., assets which their fair value is positive), which in relation to derivatives is only a small fraction of the contract, or notional values used to express the volume of instruments outstanding. This credit risk exposure is managed as part of the overall lending limits with customers, together with potential exposures from market movements. Collateral or other security is not usually obtained for credit risk exposures on these instruments, except where the Bank requires margin deposits from counterparties.

2) Master netting arrangements

The Bank further restricts its exposure to credit losses by entering into master netting arrangements with counterparties with which it undertakes a significant volume of transactions. Master netting arrangements do not generally result in an offset of statement of financial position assets and liabilities, as transactions are usually settled on a gross basis. However, the credit risk associated with favourable contracts is reduced by a master netting arrangement to the extent that if an event of default occurs, all amounts with the counterparty are terminated and settled on a net basis. The Bank's overall exposure to credit risk on derivative instruments subject to master netting arrangements can change substantially within a short period, as it is affected by each transaction subject to the arrangement.

3) Credit-related commitments

The primary purpose of these instruments is to ensure that funds are available to a customer as required. Guarantees and standby letters of credit, which represent irrevocable assurances that the Bank will make payments in the event that a customer cannot meet its obligations to third parties, carry the same credit risk as loans. Documentary and commercial letters of credit which are written undertakings by the Bank on behalf of a customer authorising a third party to draw the drafts on the Bank up to a stipulated amount under specific terms and conditions are collateralised by the underlying shipments of goods to which they relate and therefore carry less risk than a direct borrowing.

Commitments to extend credit represent unused portions of authorisations to extend credit in the form of loans, guarantees or letters of credit. With respect to credit risk on commitments to extend credit, the Bank is potentially exposed to loss in an amount equal to the total unused commitments. However, the potential loss may be less than the total unused commitments, as most commitments to extend credit are contingent upon customers maintaining specific credit standards. The Bank monitors the term to maturity of credit commitments because longer-term commitments generally have a greater degree of credit risk than shorter-term commitments.

(b) Interest rate risk

Interest rate risk is the risk that future movements in market interest rates will affect the results of the Bank's operations. Sensitivity to interest rates arises from mismatches in the interest rate characteristics of the assets and their corresponding funding liability. One of the major causes of these mismatches is timing differences in the repricing of the assets and liabilities. These mismatches are actively managed by the Branch and its Head Office as part of the overall risk management process which is conducted within internal guidelines and in conjunction with market risk.

As at 31 December 2016 and 2015, financial assets and liabilities classified by type of interest rate were as follows:

	2016					
Descriptions	Floating interest rate Million Baht	Fixed interest rate Million Baht	Non-interest bearing Million Baht	Total Million Baht		
Financial assets						
Cash		(5)	1	1		
Interbank and money market items, net Accounts receivable from	70	6,000	667	6,737		
securities trading			367	367		
Investments, net	•	29,640	- 40	29,640		
Loan and accrued interest receivables		1,540	12	1,552		
Deferred revenue		:≪:	(3)	(3)		
Allowance for doubtful account	U=7.	•	(23) 76	(23) 76		
Other assets			76	70		
Total financial assets	70	37,180	1,097	38,347		
Financial liabilities						
Deposits	923	9,621	709	10,330		
Interbank and money market items	23	1,300	-	1,323		
Accounts payable from						
securities trading	(#)		504	504		
Demand liabilities	(i)=:	1000	98	98		
Other liabilities	74	848	298	298		
Total financial liabilities	23	10,921	1,609	12,553		
		201	E			
	Floating	Fixed	Non-interest			
Descriptions	interest rate Million Baht	interest rate Million Baht	bearing Million Baht	Total Million Baht		
			//			
Financial assets Cash		: <u>a</u> 1	5	5		
Interbank and money market items, net Accounts receivable from	48	4,200	427	4,675		
securities trading	•	2	23	23		
Investments, net	3.50	33,547		33,547		
Loan and accrued interest receivables	1,624	2,819	17	4,460		
Deferred revenue	1,62	130	(9)	(9)		
Allowance for doubtful account	(€)	5 ★)	(52)	(52)		
Other assets			24	24		
Total financial assets	1,672	40,566	435	42,673		
Einanoial liabilities						
Financial liabilities		0.000	604	0.000		
Deposits	26	8,998 5 150	631	9,629		
Interbank and money market items Accounts payable from	36	5,150	-	5,186		
securities trading	1/24	200	1,218	1 010		
Demand liabilities	1.0	125	1,216 34	1,218		
Other liabilities	(5)		1,658	34 1,658		
	36	14,148	3,541			
Total financial liabilities	30	14,140	3,041	17,725		

(b) Interest rate risk (Cont'd)

As at 31 December 2016 and 2015, financial assets and liabilities classified by type of interest rate were as follows: (Cont'd)

	2016 Repricing or maturity date						
		0-3	3 - 12	1 - 5	Over 5	No	
Transactions	At call Million Baht	months Million Baht	months Million Baht	years Million Baht	years Million Baht	maturity Million Baht	Total Million Baht
Financial assets							
Cash	2	8	;	141	343	1	1
Interbank and money market items, net Accounts receivable from securities	797	5,940		: 27	5.59	, <u>ş</u>	6,737
trading		8	-	3		367	367
Investments, net	~	9,366	13,094	4,230	2,950	·	29,640
Loans and accrued interest						_	
receivables	784	264	27	497		7	1,552
Deferred revenue		~	£*	-	()	(3)	(3)
Allowance for doubtful account		;÷	⊕	3.0	9 € 2	(23)	(23)
Other assets		<u> </u>			(6)	76	76
Total financial assets	1,581	15,570	13,094	4,727	2,950	425	38,347
Financial liabilities		205				700	10.000
Deposits	9,296	325		0.00	•	709	10,330
Interbank and money market items Accounts payable from securities	23	1,300	:•				1,323
trading				9	2	504	504
Demand liabilities			190			98	98
Other liabilities			<u> </u>	3.7	- 5	298	298
Total financial liabilities	9,319	1,625	-	-	-	1,609	12,553
				2015			
			pricing or m	naturity date			
	-	0 - 3	3 - 12	naturity date 1 - 5	Over 5	No	
	At call Million	0 - 3 months Million	3 - 12 months Million	naturity date 1 - 5 years Million	Over 5 years Million	maturity Million	Million
Transactions		0 - 3 months	3 - 12 months	naturity date 1 - 5 years	Over 5 years	maturity	Million
Transactions Financial assets	Million	0 - 3 months Million	3 - 12 months Million	naturity date 1 - 5 years Million	Over 5 years Million	maturity Million Baht	Millior Bah
Financial assets	Million	0 - 3 months Million	3 - 12 months Million	naturity date 1 - 5 years Million	Over 5 years Million	maturity Million	Millior Bah
Financial assets Cash Interbank and money market items, net	Million Baht	0 - 3 months Million Baht	3 - 12 months Million	naturity date 1 - 5 years Million	Over 5 years Million	maturity Million Baht	Millior Bah
Financial assets Cash Interbank and money market items, net Accounts receivable from securities	Million Baht	0 - 3 months Million Baht	3 - 12 months Million	naturity date 1 - 5 years Million	Over 5 years Million	maturity Million Baht 5	Million Bah
Financial assets Cash Interbank and money market items, net Accounts receivable from securities trading	Million Baht	0 - 3 months Million Baht	3 - 12 months Million Baht	naturity date 1 - 5 years Million Baht	Over 5 years Million	maturity Million Baht	Millior Bah 8 4,675
Financial assets Cash Interbank and money market items, net Accounts receivable from securities	Million Baht	0 - 3 months Million Baht	3 - 12 months Million	naturity date 1 - 5 years Million	Over 5 years Million Baht	maturity Million Baht 5	Millior Bah
Financial assets Cash Interbank and money market items, net Accounts receivable from securities trading Investments, net	Million Baht	0 - 3 months Million Baht	3 - 12 months Million Baht	naturity date 1 - 5 years Million Baht	Over 5 years Million Baht	maturity Million Baht 5	Millior Bah 4,675 23 33,541
Financial assets Cash Interbank and money market items, net Accounts receivable from securities trading Investments, net Loans and accrued interest	Million Baht 489	0 - 3 months Million Baht 4,186	3 - 12 months Million Baht	naturity date 1 - 5 years Million Baht 4,432	Over 5 years Million Baht	maturity Million Baht 5 -	Millior Bah 4,675 233,541 4,460
Financial assets Cash Interbank and money market items, net Accounts receivable from securities trading Investments, net Loans and accrued interest receivables	Million Baht 489	0 - 3 months Million Baht 4,186	3 - 12 months Million Baht	naturity date 1 - 5 years Million Baht	Over 5 years Million Baht	maturity Million Baht 5 - 23	Millior Bah 4,675 33,547 4,460 (9
Financial assets Cash Interbank and money market items, net Accounts receivable from securities trading Investments, net Loans and accrued interest receivables Deferred revenue	Million Baht 489	0 - 3 months Million Baht 4,186	3 - 12 months Million Baht	naturity date 1 - 5 years Million Baht	Over 5 years Million Baht	maturity Million Baht 5 - 23 - 7 (9)	Millior Bah 4,675 23 33,547 4,460 (9
Financial assets Cash Interbank and money market items, net Accounts receivable from securities trading Investments, net Loans and accrued interest receivables Deferred revenue Allowance for doubtful account	Million Baht 489	0 - 3 months Million Baht 4,186 18,346 361	3 - 12 months Million Baht	naturity date 1 - 5 years Million Baht	Over 5 years Million Baht	maturity Million Baht 5 - 23 - 7 (9) (52)	Million Bah 4,679 23,3547 4,460 (9) (52,24
Einancial assets Cash Interbank and money market items, net Accounts receivable from securities trading Investments, net Loans and accrued interest receivables Deferred revenue Allowance for doubtful account Other assets Total financial assets	489	0 - 3 months Million Baht 4,186 18,346	3 - 12 months Million Baht	naturity date 1 - 5 years Million Baht	Over 5 years Million Baht	maturity Million Baht 5 - 23 - 7 (9) (52) 24	Million Bah 4,679 23,3547 4,460 (9) (52,24
Financial assets Cash Interbank and money market items, net Accounts receivable from securities trading Investments, net Loans and accrued interest receivables Deferred revenue Allowance for doubtful account Other assets Total financial assets Financial liabilities	489 1,780 2,269	0 - 3 months Million Baht 4,186 18,346 361	3 - 12 months Million Baht	naturity date 1 - 5 years Million Baht	Over 5 years Million Baht	maturity Million Baht 5 - 23 - 7 (9) (52) 24	Millior Bah 4,678 23 33,547 4,460 (9 (52 24 42,673
Financial assets Cash Interbank and money market items, net Accounts receivable from securities trading Investments, net Loans and accrued interest receivables Deferred revenue Allowance for doubtful account Other assets	489	0 - 3 months Million Baht 4,186 18,346	3 - 12 months Million Baht	naturity date 1 - 5 years Million Baht	Over 5 years Million Baht	maturity Million Baht 5 - 23 - 7 (9) (52) 24	Million Bah 4,678 2:33,54: 4,466 (9) (52-2-42,673
Financial assets Cash Interbank and money market items, net Accounts receivable from securities trading Investments, net Loans and accrued interest receivables Deferred revenue Allowance for doubtful account Other assets Total financial assets Financial liabilities Deposits Interbank and money market items	489 1,780 2,269	0 - 3 months Million Baht 4,186 18,346 361 22,893	3 - 12 months Million Baht 9,724	naturity date 1 - 5 years Million Baht	Over 5 years Million Baht	7 (9) (52) 24 (2)	Million Bah 4,673 23,547 4,460 (9) (52 24,673 9,623 5,180
Financial assets Cash Interbank and money market items, net Accounts receivable from securities trading Investments, net Loans and accrued interest receivables Deferred revenue Allowance for doubtful account Other assets Total financial assets Financial liabilities Deposits Interbank and money market items Accounts payable from securities trading	489 1,780 2,269	0 - 3 months Million Baht 4,186 18,346 361 22,893	3 - 12 months Million Baht 9,724	naturity date 1 - 5 years Million Baht	Over 5 years Million Baht	maturity Million Baht 5 - 23 - 7 (9) (52) 24 (2)	Millior Bah 4,678 23 33,547 4,460 (9) (52 24 42,673 9,628 5,186 1,218
Financial assets Cash Interbank and money market items, net Accounts receivable from securities trading Investments, net Loans and accrued interest receivables Deferred revenue Allowance for doubtful account Other assets Total financial assets Financial liabilities Deposits Interbank and money market items Accounts payable from securities	489 1,780 2,269	0 - 3 months Million Baht 4,186 18,346 361 22,893	3 - 12 months Million Baht 9,724	naturity date 1 - 5 years Million Baht	Over 5 years Million Baht	7 (9) (52) 24 (2) 1,218 34	Total Millior Bah 4,675 23 33,547 4,460 (9) (52 24 42,673 9,625 5,186 1,218
Financial assets Cash Interbank and money market items, net Accounts receivable from securities trading Investments, net Loans and accrued interest receivables Deferred revenue Allowance for doubtful account Other assets Total financial assets Financial liabilities Deposits Interbank and money market items Accounts payable from securities trading	489 1,780 2,269	0 - 3 months Million Baht 4,186 18,346 361 22,893	3 - 12 months Million Baht 9,724	naturity date 1 - 5 years Million Baht	Over 5 years Million Baht	maturity Million Baht 5 - 23 - 7 (9) (52) 24 (2)	Millior Bahri 4,675 23 33,547 4,460 (9) (52 24 42,673 9,628 5,186 1,218

44

(b) Interest rate risk (Cont'd)

The outstanding balances of loans which have floating interest rates or fixed interest rates include loans on which interest recognition is discontinued (presented before deducting allowance for doubtful account losses).

The average balances of the financial assets and liabilities of the Bank generating revenues and expenses, calculated based on the average balances outstanding during the period, and the average interest rate the years ended 31 December 2016 and 2015, can be summarised as follows:

	2016			2015			
	Average balances Million Baht	Interest and dividend Million Baht	Average rate (%)	Average balances Million Baht	Interest and dividend Million Baht	Average rate (%)	
Performing financial assets Interbank and money market items, net Investments, net	9,314 31,719	129 645	1.39 2.03	8,844 33,941	121 707	1.37 2.08	
Loans and accrued interest receivables	2,283	77	3.37	3,514	103	2.93	
Total	43,316	851		46,229	931		
Performing financial liabilities							
Deposits	11,457	24	0.21	15,984	105	0.66	
Interbank and money market items	4,140	200	4.83	4,925	241	4.89	
Total	15,597	224		20,909	346		

45

(c) Currency risk

Currency risk is the risk to earnings and value of financial instruments caused by the fluctuations in foreign exchange rates. It is managed in conjunction with market risk.

The Bank manages currency risk within the limit which is approved by the Thailand Risk Committee. In addition, the Bank limits the net foreign currency position of each currency at 15% of the total fund of the Bank, and limits the net foreign currency in aggregate of every currency at 20% of total funds of the Bank. The ratio is complied with the regulation of the Bank of Thailand.

The following table presents a currency analysis for monetary assets and liabilities on statement of financial position as at 31 December 2016 and 2015 as follow:

			2016		
	Baht Million Baht	US Dollar Million Baht	Japanese Yen Million Baht	Others Million Baht	Total Million Baht
Cash	1	¥	£	-	1
Interbank and money market items, net Accounts receivable from	6,667	ê	8	62	6,737
securities trading	367	~	O₩C) •	367
Financial derivative assets	7,669	12,449	577	13	20,708
Investments, net Loans and accrued interest	29,640	*	<u></u>	//=	29,640
receivables	1,552	<u> </u>	-	- 6	1,552
Deferred revenue	(3)	4	248	25	(3)
Allowance for doubtful account	(23)	=	2.¥8		(23)
Other assets	68	8			76
Total assets	45,938	12,457	585	75	59,055
Deposits	6,689	3,620		21	10,330
Interbank and money market items Accounts payable from	1,323	-	*	-	1,323
securities trading	504	8	<u> </u>		504
Demand liabilities Financial liabilities designated	98	3	<u> </u>	Ä	98
at fair value through profit or loss	17,859	2	*	#	17,861
Financial derivative liabilities	5,370	12,171	713	13	18,267
Other liabilities	95	151		52	298
Total liabilities	31,938	15,944	713	86	48,681
Net foreign currency position in the statement of financial position	14,000	(3,487)	(128)	(11)	10,374
Net foreign currency position off-statement of financial position	826,295	644,596	3,576,378	150,166	5,197,435

(c) Currency risk (Cont'd)

The following table presents a currency analysis for monetary assets and liabilities on statement of financial position as at 31 December 2015 and 2014 as follow: (Cont'd)

			2015		
	Baht Million Baht	US Dollar Million Baht	Japanese Yen Million Baht	Others Million Baht	Total Million Baht
Cash	5	-	-	360	5
Interbank and money market items, net Accounts receivable from	4,627	-	5	43	4,675
securities trading	23	-			23
Financial derivative assets	(31,835)	69,007	3,586	(15,690)	25,068
Investments, net Loans and accrued interest	33,547	-	•	*	33,547
receivables	2,833	1,627	82	*	4,460
Deferred revenue	(5)	(4)	0,000	*	(9)
Allowance for doubtful account	(36)	(16)	ð. = :	*	(52)
Other assets	23	1			24
Total assets	9,182	70,615	3,591	(15,647)	67,741
Deposits	5,429	4,187	(-)	13	9,629
Interbank and money market items Accounts payable from	5,186	ä	15	-	5,186
securities trading	1,218	:=	12	#	1,218
Demand liabilities Financial liabilities designated	34		•	-	34
at fair value through profit or loss	14,604	(184)	=		14,420
Financial derivative liabilities	(44,104)	81,317	3,585	(15,690)	25,108
Other liabilities	1,380	275	·	3	1,658
Total liabilities	(16,253)	85,595	3,585	(15,674)	57,253
Net foreign currency position in the statement of financial position	25,435	(14,980)	6	27	10,488
Net foreign currency position off-statement of financial position	985,913	614,436	21,204	32,482	1,654,035

(d) Liquidity risk

Liquidity risk is the risk that a firm, although solvent, either does not have available sufficient financial resources to enable it to meet its obligations as they fall due, or can secure such resources only at excessive cost. The Bank's liquidity management framework is intended to maximise liquidity access and minimise funding costs. Management uses a variety of measures to mitigate liquidity and related risks, taking into consideration market conditions, funding needs and the profile of the location's liability base.

Treasury is responsible for day to day oversight and management of the liquidity of the Bank, and for ensuring compliance with regulations and the liquidity risk management policy. It is responsible for monitoring, managing and reporting the liquidity risk profile for the Bank. It formulates the location's liquidity strategies, including contingency planning; monitors cash flow requirements to determine potential funding gaps; maintains ongoing interaction with lines of business to track funding and business trends; and through all of the above seeks to avoid funding stress through early detection of liquidity issues.

(d) Liquidity risk (Cont'd)

The liquidity management framework has well-defined roles and responsibilities. Daily liquidity risk management tools are used by local Treasury traders to monitor the liquidity profile of the Bank. Funding limits and guidelines have been established, which in conjunction with the monthly liquidity stress tests provide assurance that sufficient funding is available even during periods of market stress.

The following table presents a maturity analysis for monetary assets and liabilities on statement of financial position as at 31 December 2016 and 2015.

				2016			
,	At call Million Baht	Within 3 months Million Baht	3 to 12 months Million Baht	1 to 5 years Million Baht	Over 5 years Million Baht	No maturity Million Baht	Total Million Baht
Cash	1	3 4 3	Xex	-	*	5.	1
Interbank and money market items, net	797	5,940		5		æ	6,737
Accounts receivable from securities trading		367	-	ě		- 2	367
Financial derivative							
assets	3	2,517	2,494	6,673	9,024	-	20,708
Investments, net Loans and accrued		9,366	13,094	4,230	2,950	•	29,640
interest receivables	784	264	2	497	2	7	1,552
Deferred revenue Allowance for	-	(1)	#: #:	(2)		5	(3)
doubtful accounts	(8)	(3)	-	(5)		(7)	(23)
Other monetary assets	- (0)	60	16				76
Total assets	1,574	18,510	15,604	11,393	11,974		59,055
Deposits	10,005	325	-	-	-	-	10,330
Interbank and money market items	23	1,300	-	-	-	-	1,323
Accounts payable		504					504
from securities trading Demand liabilities	98	504	-	-	-	_	98
Financial liabilities designated at fair value	90	_	_				00
through profit or loss	520	9	*	3,280	14,581	×	17,861
Financial derivative liabilities		3,004	2,184	7,460	5,619		18,267
Other monetary liabilities		298	-				298
Total liabilities	10,126	5,431	2,184	10,740	20,200		48,681
Liquidity, net	(8,552)	13,079	13,420	653	(8,226)		10,374

(d) Liquidity risk (Cont'd)

The following table presents a maturity analysis for monetary assets and liabilities on statement of financial position as at 31 December 2016 and 2015. (Cont'd)

	2015						
	At call Million Baht	Within 3 months Million Baht	3 to 12 months Million Baht	1 to 5 years Million Baht	Over 5 years Million Baht	No maturity Million Baht	Total Million Baht
Cash	5	(* 2			-	(€)	5
Interbank and money market items, net Accounts receivable	489	4,186		e=:			4,675
from securities trading Financial derivative	•	23			-	•	23
assets	3	3,210	5,027	7,944	8,887		25,068
Investments, net Loans and accrued	*	18,346	9,724	4,432	1,045	**	33,547
interest receivables	1,780	361	-	2,312	÷	7	4,460
Deferred revenue	*	(1)	0(0)	(8)	=	5.60	(9)
Allowance for doubtful accounts	(18)	(4)		(23)	5	(7)	(52)
Other monetary assets	(10)	11	13	(20)			24
Total assets	2,256	26,132	14,764	14,657	9,932		67,741
Deposits	9,551	78	72	*	2	·	9,629
Interbank and money market items Accounts payable	36	1,350	3,800	-		(⊛	5,186
from securities trading		1,218					1,218
Demand liabilities	34	1,2.10	2	2	¥	(*)	34
Financial liabilities designated at fair value							
through profit or loss	3	(-	-	1,934	12,486	-	14,420
Financial derivative liabilities	<u>a</u>	4,480	5,581	8,910	6,137	*	25,108
Other monetary		•	•				
liabilities		431	1,216			11	1,658
Total liabilities	9,621	7,557	10,597	10,844	18,623	11	57,253
Liquidity, net	(7,365)	18,575	4,167	3,813	(8,691)	(11)	10,488

The table above classified monetary assets and liabilities of the Bank into relevant maturity groupings based on the remaining period at statement of financial position date to the contractual maturity date. It is unusual for banks to have completely matched maturities since business transactions are often of uncertain terms and of different types. In addition, the Bank obtains a large proportion of domestic funding from customer deposits, interbank and money market item and financial liabilities under fair value option, and foreign funding from Head Office and other branches abroad. The Bank has demonstrated that a substantial level of such funding provides a stable source of long term funding for the Bank.

37 Management benefits

	2016	2015	
	Baht	Baht	
Short-term employee benefits	106,618,838	94,336,075	
Post-employment benefits	7,051,007	4,906,937	
Share based payment	5,727,192	4,137,840	

38 Long-term lease agreement

The Bank has signed a 30 years lease agreement for the office space. The termination date of the lease agreement is 31 July 2023. The lump-sum rental fee was paid when the contract was signed. The amortisation of the prepaid amount to rental expense is approximately Baht 405,176 per month. The Bank has the right to transfer the leasehold right or to sub-lease the office space, either all or partial, to the third parties without a prior written consent from the lessor. When the lease agreement is terminated under any circumstances, the Bank is obligated to remove all assets and to restore the office to proper conditions at its own expense within 60 days.

39 Fair value

39.1 Fair value measurement

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

- 1. Quoted prices (unadjusted) in active markets for identical assets or liabilities (Level 1).
- 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 2).
- 3. Inputs for the asset or liability that are not based on observable market data (that is, unobservable inputs) (Level 3).

The financial assets and liabilities that are measured at fair value by different level of valuation method at 31 December 2016 and 2015 as follows:

		2016				
		Fair value				
	Book value Million Baht	Level 1 Million Baht	Level 2 Million Baht	Level 3 Million Baht	Total Million Baht	
Assets Financial derivatives						
assets	20,708	; • 1	20,708	(≆)	20,708	
Investment, net	29,640		29,640		29,640	
Total assets	50,348	-	50,348		50,348	
Liabilities Financial liabilities designated at fair value						
through profit or loss Financial derivatives	17,861	35		17,861	17,861	
liabilities	18,267		18,267		18,267	
Total liabilities	36,128		18,267	17,861	36,128	

39.1 Fair value measurement (Cont'd)

The financial assets and liabilities that are measured at fair value by different level of valuation method at 31 December 2016 and 2015 as follows: (Cont'd)

		2015 Fair value				
	Book value Million Baht	Level 1 Million Baht	Level 2 Million Baht	Level 3 Million Baht	Total Million Baht	
Assets Financial derivatives						
assets	25,068	1	25,067	99.5	25,068	
Investment, net	33,547		33,547	<u>`</u>	33,547	
Total assets	58,615	1	58,614	-	58,615	
Liabilities Financial liabilities designated at fair value through profit or loss	14,420	•	¥	14,420	14,420	
Financial derivatives		353		14,420	•	
liabilities	251,08		25,107		25,108	
Total liabilities	39,528	1	25,107	14,420	39,528	

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

39.2 Valuation techniques used to derive level 2 and 3 fair values

Derivatives

Derivatives that are valued using models such as the Black-Scholes option pricing model, simulation models or a combination of models, that use observables or unobservable valuation inputs.

Input include:

- · Contractual terms including the period to maturity
- · Readily observable parameters including interest rates and volatility
- Credit quality of the counterparty and of the Bank
- Market funding levels
- Correlation levels

In addition, the following specific inputs are used for the following derivatives that are valued based on models with significant unobservable inputs:

Structured credit derivatives, specific inputs include:

- CDS spreads and recovery rates
- Credit correlation between the underlying debt instruments
- Actual transactions, where available, are used to regularly recalibrate unobservable parameters

39.2 Valuation techniques used to derive level 2 and 3 fair values (Cont'd)

Derivatives related to interest rate and exchange rate which are complexed, specific inputs include:

- Interest rate correlation
- Volatility of interest rate spread
- Exchange rate correlation
- Correlation between interest rate and exchange rate
- Parameters explaining the reference interest rate

Commodity derivatives, specific inputs include:

- Commodity volatility
- Forward commodity price

Additionally, adjustments are made to reflect counterparty credit quality (credit valuation adjustments or "CVA") and funding valuation adjustment ("FVA") to incorporate the impact of funding.

Debt investments are fair valued using a discounted cash flow approach, which discounts the contractual cash flows using discount rates derived from observable market prices of other quoted debt instruments of the counterparties.

Investments

Fair value of trading and available-for-sale debt securities are calculated using the last quoted bid price or using the discounted cash flow by reference to the risk-free yield curve adjusted by an appropriate risk premium.

39.3 Fair value measurements using significant unobservable inputs (Level 3)

	Financial liabilities designated at fair value		
	2016 Million Baht	2015 Million Baht	
As at 1 January Total realised/unrealised gain (losses) recognised in	14,420	10,447	
profit and loss	1,081	212	
New issuance	2,660	3,930	
Settlement	(300)	(100)	
Translation adjustment		(69)	
As at 31 December	17,861	14,420	

The ranges of unobservable inputs for interest rate correlation are (30%) - 50% (31 December 2015: 30% - 95%) and Credit quanto are (40%) - (10%) (31 December 2015: 65% - 85%).

There were no other changes in valuation techniques during the year.

39.4 Bank's valuation processes

Risk-taking functions are responsible for providing fair value estimates for assets and liabilities carried on the statement of financial position at fair value. The Bank's valuation control function is responsible for verifying these estimates and determining any fair value adjustments that may be required to ensure that the Bank's positions are recorded at fair value.

The Model Risk function is independent of the model owners and reviews and approves a wide range of models, including risk management, valuation and certain regulatory capital models used by the Bank. The Model Risk function performs an annual firmwide model risk assessment where developments in the product or market are considered in determining whether valuation models which have already been reviewed need to be reviewed and approved again.

39.5 Fair value of financial assets and liabilities measured at amortised cost

The financial assets and liabilities that are not measured at fair value as at 31 December 2016 and 2015 are as follows;

		2016 Fair value				
	3=					
	Book value Million Baht	Level 1 Million Baht	Level 2 Million Baht	Level 3 Million Baht	Total Million Baht	
Assets Cash Interbank and money	1	1	: . :		1	
market items, net Accounts receivable from	6,737	797	5,940		6,737	
securities trading Loans and accrued interest	367	367	**	*	367	
receivables, net	1,526	<u> </u>	1,526		1,526	
Total assets	8,631	1,165	7,466		8,631	
Liabilities						
Deposits Interbank and money	10,330		10,330		10,330	
market items Accounts payable from	1,323	23	1,300	*	1,323	
securities trading	504	504	(*)	*	504	
Liability payable on demand		98			98	
Total liabilities	12,255	625	11,630		12,255	

39.5 Fair value of financial assets and liabilities measured at amortised cost (Cont'd)

		2015				
	Book value Million Baht	Fair value				
		Level 1 Million Baht	Level 2 Million Baht	Level 3 Million Baht	Total Million Baht	
Assets						
Cash Interbank and money	5	5	i.e	•1	5	
market items, net Accounts receivable from	4,675	4,675	4 /	*	4,675	
securities trading Loans and accrued interest	23	23	3	ş	23	
receivables, net	4,399		4,399	<u> </u>	4,399	
Total assets	9,102	4,703	4,399		9,102	
Liabilities						
Deposits Interbank and money	9,629	*	9,629	*	9,629	
market items Accounts payable from	5,816	5,186	: €	*	5,186	
securities trading	1,218	1,218	520	₩.	1,218	
Liability payable on demand	34	34			34	
Total liabilities	16,067	6,438	9,629		16,067	

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. This includes cash, saving deposits and current deposits presented as both interbank and money market assets and liabilities items, account receivable from securities trading, saving deposits and current deposits, account payable from securities trading and liabilities payable on demand.

Fair value of the following assets and liabilities are estimated for the purpose of disclosure as described below:

Loans to customers and accrued interest receivable, net

The fair value is the outstanding balance of loans and accrued interest less allowance for doubtful accounts. The majority of loans are fixed rate. The management has assessed the existing effective rate of the outstanding loans is a reasonable approximation of market effective rate.

Interbank and money market items

The interbank and money market items (assets) are loans to financial institutions which are short-term or at call. Accordingly, their carrying amount is a reasonable approximation of fair value.

The interbank and money market items (liabilities) are borrowing and fixed deposits which are short-term. Accordingly, their carrying amount is a reasonable approximation of fair value.

Deposits

The deposits are on demand, savings and fixed deposits which are short-term. Accordingly, their carrying amount is a reasonable approximation of fair value.