

Bangkok Bank Public Company Limited

Basel III - Pillar 3 Disclosures As at December 31, 2022



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Introduction

Bangkok Bank ("the Bank") recognizes that effective risk management and good corporate governance are essential to the stability and sustainable credibility of the Bank and its subsidiaries in the Group ("the Group"). The Bank therefore places great emphasis on continually improving risk management processes and on having a sufficient level of capital to support business operations, at both the Bank level and the Group level.

The use of market discipline is deemed to be an important driver in the enhancement of the risk management system. Therefore, disclosures of information regarding capital, risk exposures, risk assessment processes, and capital adequacy are provided at both the Bank level (Solo Basis) and the Group level (Full Consolidation Basis). The disclosures are in accordance with the disclosure requirements of the Bank of Thailand ("BOT").

The complete disclosure report of information regarding capital management in accordance with Basel III - Pillar 3 is provided, of which the quantitative information regarding key prudential metrics, capital structure, capital adequacy, minimum capital requirements for credit risk, market risk, operational risk and Liquidity Coverage Ratio (LCR) is disclosed semi-annually. As for the disclosure of qualitative information, it is updated annually or when there is a material change in the risk management policy. Disclosures will be made for information that the Bank considers to be of material nature. The Pillar 3 disclosure reports will be made available on the Bank's website under the section "Investor Relations" within four months after the end of relevant period.

Scope of Application

The disclosure report covers information at both the Bank level (Solo Basis) and the Group level (Full Consolidation Basis). There are 12 companies in the Group consisting of;

- Bangkok Bank Public Company Limited engaged in commercial banking (as the parent company)
- Bangkok Bank Berhad engaged in commercial banking
- Bangkok Bank (China) Company Limited engaged in commercial banking
- PT Bank Permata Tbk engaged in commercial banking
- Bualuang Securities Public Company Limited engaged in securities business
- BBL Asset Management Company Limited engaged in fund management
- Bangkok Capital Asset Management Company Limited engaged in fund management
- Sinsuptawee Asset Management Company Limited engaged in asset management
- Bualuang Ventures Limited engaged in venture capital
- BSL Leasing Company Limited engaged in leasing business
- BBL (Cayman) Limited engaged in finance business
- BBL Nominees (Tempatan) Sdn. Bhd engaged in supporting business

The scope of consolidation for accounting and regulatory purposes has no difference (See Table 7).



1. Key Prudential Metrics

Table 1: Quantitative Disclosure of Key Prudential Metrics

	. .	The Gr	oup	The Bank	
	Items	31 December 2022	30 June 2022	31 December 2022	30 June 2022
Capi	al (Unit : Million Baht)				
1	Common Equity Tier 1 Capital (CET1)	447,590	434,683	444,882	423,129
1A	Common Equity Tier 1 Capital (CET1) after ECL ^{1/} (Fully				
	loaded ECL CET1)	447,590	434,683	444,882	423,129
2	Tier 1 Capital	471,366	458,464	468,474	446,721
2A	Tier 1 Capital after ECL (Fully loaded ECL Tier1)	471,366	458,464	468,474	446,721
3	Total Capital	575,474	561,949	569,281	546,366
3A	Total Capital after ECL (Fully loaded ECL Total Capital)	575,474	561,949	569,281	546,366
Risk	Weighted Assets (Unit : Million Baht)				
4	Total Risk Weighted Assets (RWA)	3,008,128	2,968,445	2,694,841	2,633,285
Capit	al to Risk Weighted Assets Ratio (%)				
5	Common Equity Tier1 Capital Ratio	14.88	14.64	16.51	16.07
5A	Common Equity Tier1 Capital Ratio after ECL (Fully				
	loaded ECL CET1 Ratio)	14.88	14.64	16.51	16.07
6	Tier 1 Capital Ratio	15.67	15.44	17.38	16.96
6A	Tier 1 Capital Ratio after ECL (Fully loaded ECL Tier1 Ratio)	15.67	15.44	17.38	16.96
7	Total Capital Ratio	19.13	18.93	21.12	20.75
7A	Total Capital Ratio after ECL (Fully loaded ECL Total				
	Capital Ratio)	19.13	18.93	21.12	20.75
Capi	al Buffer Ratio (%)				
8	Conservation Buffer Ratio	2.50	2.50	2.50	2.50
9	Countercyclical Buffer Ratio	-	-	-	-
10	High Loss Absorbency Ratio	1.00	1.00	1.00	1.00
11	Total Capital Buffer (Total Transaction 8 -10)	3.50	3.50	3.50	3.50
12	Common Equity Tier 1 Ratio Remaining after				
	Minimum Requirement ^{2/}	9.67	9.44	11.38	10.96
Liqui	dity Coverage Ratio (LCR) (%)			Average Value for th	e fourth quarte
				Year 2022	Year 2021
13	Total High-Quality Liquid Assets (Unit : Million Baht)			966,121	1,140,364
14	Total Expected Net Cash Outflows within the next 30 days				
	(Unit : Million Baht)			356,939	422,597
15	LCR (%)			271	270

^{1/} Expected Credit Loss (ECL) as prescribed in TFRS9 Financial Instruments (TFRS9) of the Federation of Accounting Professions

²⁷ CET1 ratio remaining after minimum capital, it is not necessarily equal to the difference between the CET1 ratio in the 5th and the 4.5% minimum CET1 ratio requirement. Due

to the CET1 ratio may be applied to maintain a minimum Tier1 ratio requirement of 6% and/or minimum total capital ratio requirement of 8.5%.



2. Capital Structure and Capital Adequacy

2.1 Capital Structure

The Bank's capital structure according to the regulations on capital requirements under the principles of BOT's Basel III, is revised into Common Equity Tier 1 Capital, Additional Tier 1 Capital and Tier 2 Capital.

- Common Equity Tier 1 Capital comprises
 - 1) Paid-up Share Capital
 - 2) Premium (discount) on Common Share
 - 3) Legal Reserves
 - 4) Reserves appropriated from net profit
 - 5) Retained earnings after appropriations
 - 6) Non-controlling Interest classified as Common Equity Tier 1 Capital
 - 7) Other Reserves
 - 8) Deductions such as goodwill, intangible assets and deferred tax assets
- Additional Tier 1 Capital consists of
 - Long-term subordinated debt instrument with claims subordinated to depositors, general creditors and other subordinated debts, including debt instruments qualified as Tier 2 Capital.
 - 2) Non-controlling Interest classified as Additional Tier 1 Capital
- Tier 2 Capital consists of
 - 1) Long-term subordinated debt instrument with claims subordinated to depositors and general creditors
 - 2) General Provisions for normal assets not exceeding 1.25 percent of credit risk- weighted assets
 - 3) Non-controlling Interest classified as Tier 2 Capital

In adopting Basel III, the BOT relaxes for subordinated debt instruments classified as Tier 2 capital of which the criteria do not meet qualifications under Basel III regarding capability for loss absorbency of the Bank at the point of non-viability i.e. no conversion feature to common shares or written off upon the authority's decision to make financial support to the Bank, the BOT requires phasing out capital at 10 percent p.a. starting from 2013 to 2022.

Table 2: Capital Structure

				Unit : Million Baht
Control	TI	ie Group	Т	`he Bank
Capital	31 December 2022	30 June 2022	31 December 2022	30 June 2022
Common Equity Tier 1 Capital	447,590	434,683	444,882	423,129
Tier 1 Capital	471,366	458,464	468,474	446,721
Tier 2 Capital	104,108	103,485	100,807	99,645
Total Capital	575,474	561,949	569,281	546,366



2.2 Capital Adequacy

The objective of the Bank's and the Group's capital management policy is to maintain an adequate level of capital to support growth strategies within an acceptable risk framework, as well as to meet regulatory requirements and market expectations.

In compliance with the BOT's supervisory review process guidelines, the Bank's capital management process assesses the overall risk and capital adequacy under the Internal Capital Adequacy Assessment Process (ICAAP). The process covers projected assessments of all substantial risks to the Bank's operations, so that the Bank can effectively manage its risks and has a sound capital base for business operations under normal and stress scenarios. Therefore, the capital management process covers the Group level.

The Standardised Approach (SA) is used to measure credit risk, market risk, and operational risk for computing regulatory capital requirements under BOT's Basel III at both the Bank level and the Group level.

Under the principles of Basel III, the BOT requires that commercial banks registered in Thailand and their groups must maintain three minimum capital adequacy ratios: a Common Equity Tier 1 Capital adequacy ratio of no less than 4.50 percent, a Tier 1 Capital adequacy ratio of no less than 6.00 percent, and a Total Capital adequacy ratio of no less than 8.50 percent. The aforementioned minimum ratios have yet to include the Capital Conservation Buffer of more than 2.50 percent, Moreover, the BOT requires the Bank, which is classified as a Domestic Systemically Important Bank (D-SIB), to have additional capital to meet the Higher Loss Absorbency (HLA) requirement by 1.00 percent. Consequently, from January 1, 2020, Common Equity Tier 1 Ratio, Tier 1 Ratio and Total Capital Ratio must be more than 8.00, 9.50 and 12.00 percent, respectively, of the total risk-weighted assets.

Moreover, the BOT may require banks to maintain additional capital for Countercyclical Buffer at maximum 2.50 percent. As at December 31, 2022, the Bank and the Group has adequate capital for such buffers.

0:4-1	The G	roup	The Bank		
Capital	31 December 2022	30 June 2022	31 December 2022	30 June 2022	
Common Equity Tier 1 Capital	14.88%	14.64%	16.51%	16.07%	
Tier 1 Capital	15.67%	15.44%	17.38%	16.96%	
Tier 2 Capital	3.46%	3.49%	3.74%	3.79%	
Total Capital	19.13%	18.93%	21.12%	20.75%	

Table 3: Capital Adequacy



Capital Adequacy Ratio



Group Level (Full Consolidation Basis)

Remark: The BOT requires commercial banks to maintain an additional Capital Conservation Buffer reaches more than 2.5 percent. The BOT also requires commercial banks to have additional capital requirement for Higher Loss Absorbency (HLA) requirement by 1 percent



Table 4: Component of Capital

Unit : Million Baht

	The	e Group	The I	Bank
Component of Capital	31 December 2022	30 June 2022	31 December 2022	30 June 202
Tier 1 Capital	471,366	458,464	468,474	446,721
Common Equity Tier 1 Capital	447,590	434,683	444,882	423,129
Paid-up Share Capital	19,088	19,088	19,088	19,088
Premiums on Share Capital	56,346	56,346	56,346	56,346
Legal Reserves	27,000	26,500	27,000	26,500
Reserves appropriated from net profit	121,500	116,500	121,500	116,500
Net profit after appropriations	210,038	203,174	190,120	184,228
Other comprehensive income	53,237	57,174	55,123	48,708
Non-controlling Interest	391	402	-	-
Deductions from Common Equity Tier 1 Capital	(40,010)	(44,501)	(24,295)	(28,241)
Additional Tier 1 Capital	23,776	23,781	23,592	23,592
Subordinated Debenture	23,592	23,592	23,592	23,592
Non-controlling Interest	184	189	-	-
Tier 2 Capital	104,108	103,485	100,807	99,645
Subordinated Debenture*	70,195	70,195	70,195	70,195
General Provision	33,821	33,185	30,612	29,450
Non-controlling Interest	92	105	-	-
Total Capital	575,474	561,949	569,281	546,366

*Component of capital subject to phasing in (out)

Unit : Million Baht

The Group		The Bank	
Classified As Capital	Outstanding Balance for Phasing In (Out)	Classified As Capital	Outstanding Balance for Phasing In (Out)
70,195	-	70,195	-
	Classified As Capital	Outstanding Classified As Capital Phasing In (Out)	Outstanding Classified Balance for As Capital Phasing In (Out)

Bank	The	e Group	Th	
Outstandin		Outstanding		
	Classified		Classified	As at June 30, 2022
Balance for		Balance for		
	As Capital		As Capital	
Phasing In (Ou		Phasing In (Out)		

Phasing in (out) at 10 percent p.a. beginning 2013 - 2022

-

70,195

2

Table 5: Minimum Capital Requirements for Each Type of Risks

	The	Group	The Bank	
Type of Risks	31 December 2022	30 June 2022	31 December 2022	30 June 202
Minimum Capital Requirements for Credit Risk	229,984	226,993	208,167	203,225
Performing	227,828	224,688	206,240	201,310
- Sovereigns and central banks, Multilateral development banks				
(MDBs ¹), and Provincial organizations/ Government entities/ State				
enterprises (PSEs ²) which have the same risk weight as Sovereigns	5,057	3,926	2,772	2,872
- Financial institutions, Securities firms, and Provincial organizations/				
Government entities/ State enterprises (PSEs) which have the same				
risk weight as Financial Institutions	9,144	10,498	9,683	10,903
- Corporates, and Provincial organizations/ Government entities/ State				
enterprises (PSEs) which have the same risk weight as Corporates	165,735	162,401	143,798	138,019
- Retail	14,896	15,213	10,660	10,514
- Residential mortgage loans	12,195	11,545	10,215	9,601
- Other assets	20,801	21,105	29,112	29,401
Non-Performing	2,156	2,305	1,927	1,915
Minimum Capital Requirements for Market Risk	6,224	6,276	5,933	5,961
- Interest Rate Risk	3,617	3,790	3,456	3,540
- Equity Price Risk	60	70	-	-
- Foreign Exchange Risk	2,547	2,416	2,477	2,421
- Commodity Price Risk	-	-	-	-
Minimum Capital Requirements for Operational Risk	19,483	19,048	14,962	14,643
Total Minimum Capital Requirements	255,691	252,317	229,062	223,829

Remark

¹ Multilateral Development Banks

² Non-central Government Public Sector Entities



Table 6: Main Features of Regulatory Capital Instruments

	Ordinary Share	Subordinated Debenture	Subordinated Debenture	Subordinated Debenture
Issuer	Bangkok Bank Public Company Limited	Bangkok Bank Public Company Limited Hong Kong branch	Bangkok Bank Public Company Limited Hong Kong Branch	Bangkok Bank Public Company Limited Hong Kong Branch
ISIN Code	TH0001010006	USY06072AD75 (Reg S)	USY0606WCA63 (Reg S)	USY0606WCC20 (Reg S)
		US06000BAA08 (Rule 144A)	US059895AT92 (Rule 144A)	US059895AV49 (Rule 144A)
Regulatory treatment				
Instrument type	Common Equity Tier 1	Additional Tier 1	Tier 2 Capital	Tier 2 Capital
Qualified Basel III	Qualified	Qualified	Qualified	Qualified
Non-qualified Basel III features	N/A	N/A	N/A	N/A
Phased-out or full-amount	Full-amount	Full-amount	Full-amount (Phrased-out 20% p.a. after year 10)	Full-amount (Phrased-out 20% p.a. after year 10)
Eligible at solo/group level	Group & Solo	Group & Solo	Group & Solo	Group & Solo
Amount recognized in regulatory capital (Net of	19,088	23,592	36,686	33,509
phasing out) (Unit: THB Million)				
Par value	10 Baht	1,000 U.S. Dollar	1,000 U.S. Dollar	1,000 U.S. Dollar
Accounting classification	Shareholder's equity	Amortized-cost debt	Amortized-cost debt	Amortized-cost debt
Original date of issuance	Multiple	September 23, 2020	September 25, 2019	September 23, 2021
Perpetual or dated	Perpetual	Perpetual	Dated	Dated
Original maturity date	No maturity	No maturity	September 25, 2034	September 23, 2036
Issuer's authority to call subject to prior	No	Issuer call subject to prior supervisory approval	Issuer call subject to prior supervisory approval	Issuer call subject to prior supervisory approval
supervisory approval				
Optional call date, contingent call date and	N/A	The Bank has the option to redeem the subordinated notes:	The Bank has the option to redeem the subordinated notes	The Bank has the option to redeem the subordinated notes
redemption amount		(i) on the First Call Date (being 5 years from the Issue Date)	at year 10, or upon certain Tax or Regulatory Events,	at year 10, or upon certain Tax or Regulatory Events,
		and every Distribution Payment Date thereafter, on the	subject to approval from the Bank of Thailand. The	subject to approval from the Bank of Thailand. The
		revailing Principal Amount or the Optional Redemption	redemption amount of the notes shall be equal to total	redemption amount of the notes shall be equal to total
		Amount, plus accrued but not cancelled Distribution subject	outstanding principal plus accrued interest subject to	outstanding principal plus accrued interest subject to
		to adjustment following the occurrence of a Trigger Event	adjustment following the occurrence of a Non-Viability	adjustment following the occurrence of a Non-Viability
		or Non-Viability Event; and (ii) at any time upon the occurrence	Event.	Event.
		of Tax or Regulatory Events, at their Prevailing Principal		
		Amount plus accrued but not cancelled Distribution subject		
		to adjustment following the occurrence of a Trigger Event		
		or Non-Viability Event, in any case, subject to approval		
		from the Bank of Thailand and subject to the Terms and		
		Condition of the Additional Tier 1 Subordinated Notes.		

Table 6: Main Features of Regulatory Capital Instruments (Continued)

	Ordinary Share	Subordinated Debenture	Subordinated Debenture	Subordinated Debenture
Subsequent call dates, if applicable	N/A	First Call Date and every Distribution Payment Date	N/A	N/A
		thereafter (or any time upon the occurrence of Tax or		
		Regulatory Events), subject to approval from the Bank of		
		Thailand		
Coupons / dividends				
Fixed or floating dividend/coupon	Discretionary dividend amount	Fixed rate until the First Call Date and thereafter reset to	Fixed rate	Fixed rate
		Reset Distribution Rate every five-year according to the		
		Terms and Condition of the Additional Tier 1 Subordinated		
		Notes		
Coupon rate and any related index	Distributable profit that has been declared as	5.000% p.a. until the First Call Date and thereafter	3.733 % p.a.	3.466 % p.a.
	dividend	reset to Reset Distribution Rate according to the Terms and		
		Condition of the Additional Tier 1 Subordinated Notes		
Existence of a dividend stopper	No	Yes	No	No
Fully discretionary, partially discretionary or	Fully discretionary	Fully discretionary	Mandatory by BOT	Mandatory by BOT
mandatory				
Existence of step up or other incentive to redeem	No	No	No	No
Non-cumulative or cumulative	Non-cumulative	Non-cumulative	Non-cumulative	Non-cumulative
Convertible or non-convertible	Non-convertible	Non-convertible	Non-convertible	Non-convertible
Write-down feature	No	Yes	Yes	Yes
Position in subordination hierarchy in liquidation	The ordinary shareholders shall of the return of	The subordinated noteholders' rights to payment of	The Subordinated Noteholders' rights to receive their debt	The Subordinated Noteholders' rights to receive their debt
	capital in a winding-up at the last position.	principal and Distribution (if any) on the Additional Tier 1	payments in a winding-up rank behind depositors and all	payments in a winding-up rank behind depositors and all
		Subordinated Notes rank senior to rights of claims in	creditors in respect of debts/ liabilities which by their	creditors in respect of debts/ liabilities which by their
		respect of the Issuer's shares and obligations which by their	terms rank senior to the Subordinated Notes.	terms rank senior to the Subordinated Notes.
		terms or by operation of law rank junior to the Additional		
		Tier 1 Subordinated Notes and junior to rights of claims in		
		respect of all other types of the Issuer's creditors.		



Table 7: Reconciliation of Regulatory Capital and Financial Statement under Consolidated Supervision

	31 December 2022	30 June 2022	References Based or	
Item		Amount	Balance Sheet under	
	Amount	Amount	the Consolidated	
Tier 1 Capital			Supervision	
Common Equity Tier 1 Capital				
Paid-up Common Shares	19,088	19,088	А	
Premiums on Share Capital	56,346	56,346	B	
Legal Reserves	27,000	26,500	С	
	121,500	116,500	D	
Reserves Appropriated from Net Profit			E	
Net Profit after Appropriation	210,038	203,174	E	
Other Comprehensive Income Revaluation Surplus on Land Building and Condominium Appraisal	20.729	20.245	F	
	29,738	30,245	F	
Revaluation Surplus on Investments	23,718	17,226	G	
Foreign Currency Translation	107	11,469	Н	
Cash flow hedges reserve	(328)	(1,766)	I	
Other Owner Changes Items	2	-	J	
Non-controlling Interest	391	402	K	
Total CET1 Capital before Regulatory Adjustments and Deduction	487,600	479,184	_	
Regulatory Adjustments on CET1	-	-	_	
Regulatory Deduction on CET1	(20, (20))			
Goodwill	(20,650)	(22,152)	L	
Intangible Assets	(13,047)	(14,500)	М	
Deferred Tax Assets	(6,313)	(7,849)	Ν	
Total Regulatory Deduction on CET1	(40,010)	(44,501)	_	
Total CET1	447,590	434,683		
Additional Tier 1 Capital				
Subordinated Debenture	23,592	23,592	О	
Non-controlling Interest	184	189	Р	
Total Tier 1 Capital	471,366	458,464		
Tier 2 Capital				
Subordinated Debenture	70,195	70,195	Q	
General Provision	33,821	33,185	R	
Non-controlling Interest	92	105	S	
Total Tier 2 Capital	104,108	103,485		
Total Regulatory Capital	575,474	561,949	_	

Table 7: Reconciliation of Regulatory Capital and Financial Statement under Consolidated Supervision (Continued)

Balance Sheet under the Consolidated Supervision ¹

	31 December 2022	30 June 2022	References for the
Items	Amount	Amount	Group Capital Item
Assets			
Cash	52,433	48,512	
Interbank and Money Market Items, net	766,074	729,943	
Financial Assets Measured at Fair Value Through Profit or Loss	75,036	84,339	
Derivatives Assets	84,839	69,631	
Investments, net	850,151	846,117	
Investments in Subsidiaries and Associates, net	1,421	1,329	
Loans to Customers and Accrued Interest Receivables, net	2,449,355	2,425,276	
Qualified as Capital	33,821	33,185	R
Properties for Sale, net	12,017	11,168	
Premises and Equipment, net	61,893	63,634	
Goodwill and Other Intangible Assets, net	33,697	36,652	
Deduction from Capital	(33,697)	(36,652)	L, M
Deferred Tax Assets	6,892	8,053	
Deduction from Capital	(6,313)	(7,849)	Ν
Collateral Placed with Financial Counterparties	1,497	6,969	
Other assets, net	26,447	24,395	
Total Assets	4,421,752	4,356,018	
Liabilities			_
Deposits	3,210,896	3,147,149	
Interbank and Money Market Items	262,521	250,539	
Liability Payable on Demand	7,770	8,275	
Financial Liabilities Measured at Fair Value Through Profit or Loss	17,960	19,846	
Derivatives Liabilities	70,981	77,140	
Debt Issued and Borrowings	188,302	220,396	
Qualified as Additional Tier 1 Capital	23,592	23,592	О
Qualified as Tier 2 Capital	70,195	70,195	Q
Provisions	27,177	25,818	
Deferred Tax Liabilities	579	203	
Other Liabilities	128,424	110,225	
Total Liabilities	3,914,610	3,859,591	



Table 7: Reconciliation of Regulatory Capital and Financial Statement under Consolidated Supervision (Continued)

Balance Sheet under the Consolidated Supervision¹

			Unit : Million Baht
Itoms	31 December 2022	30 June 2022	References for the
Items	Amount	Amount	Group Capital Item
Owner' Equity			
Share Capital			
Registered Share Capital			
Preferred Shares	17	17	
Common Shares	39,983	39,983	
Issued and Paid-up Share Capital			
Common Shares	19,088	19,088	А
Premium on Common Shares	56,346	56,346	В
Other Reserves	54,244	57,700	
Qualified as Capital	53,237	57,174	F, G, H, I, J
Retained Earnings			
Appropriated			
Legal Reserve	27,000	26,500	С
Others	121,500	116,500	D
Unappropriated	227,168	218,401	
Qualified as Capital	210,038	203,174	Е
Total Bank's Equity	505,346	494,535	_
Non-controlling Interest	1,796	1,892	
Qualified as Common Equity Tier 1 Capital	391	402	К
Qualified as Additional Tier 1 Capital	184	189	Р
Qualified as Tier 2 Capital	92	105	S
Total Shareholders' Equity	507,142	496,427	_
Total Liabilities and Shareholders' Equity	4,421,752	4,356,018	

Remark

¹ The scope of consolidation for accounting and regulatory purposes has no difference.



3. Information Related to the Risks

The effective risk management is fundamental to good banking practice of the Bank and the Group. Accordingly, the Bank has established guidelines for managing risk in each area of the business of the Bank and the Group to ensure that proper risk management mechanisms are in place. Over the past few years, the Bank proactively has been identified, monitored and analyzed major risk factors which could affect the financial operations of the Bank and the Group and, where necessary, has adjusted their organizational structure and risk management processes. This is to ensure that their risk management systems are effective and in line with international standards and are in accordance with the BOT guidelines.

The Risk Oversight Committee, the Board of Executive Directors and the senior management all play significant roles in prescribing and reviewing the efficacy of the risk management policy and system. They also define the risk management strategy, and monitor and control the risk of the Bank and the Group to be at an appropriate level, in compliance with the risk management policy approved by the Board of Directors.

The risk management process of the Bank and the subsidiaries in the Group comprises the identification of significant risks which may potentially impact business operations, the assessment of each type of risk, the monitoring and control of risks to an appropriate level, and the reporting of the status for each type of risk to relevant parties so as to enable them to manage and/or handle the risks in a timely manner.

The key principle of risk management is based on each business unit being responsible for continuously managing its relevant risk exposures and ensuring each risk remains within the approved limits and is in compliance with the overall risk management policy approved by the Board of Directors, while the Risk Management Division is responsible for monitoring and controlling the overall risks on a regular basis. The Risk Management Division and all risk-generating units are audited by the Audit and Control Division to assess the effectiveness, adequacy and appropriateness of the internal control systems.

The approach used by the Bank and the subsidiaries in the Group for the management of credit risk, market risk and operational risk are as follows:

3.1 Credit Risk

Credit Risk is the risk that arises from the inability of borrowers or counterparties to perform their obligations under contractual agreements in relation to lending, investment and other contractual activities, for example the borrowers' failure to repay principal and/or interest as agreed in the contract.

3.1.1 Credit Risk Management

The Bank has established credit underwriting processes which include the formulation of the credit policy, credit risk ratings for customers, and the establishment of different levels of delegation of authority for credit approval, depending on the type of business and/or the size of the credit line. In considering, the approval of loans in general, the Bank considers the purp ose of the loan and assesses the repayment ability of the applicant, taking into account the applicant's operating cash flows, business feasibility, management capability, and collateral coverage. The Bank's credit reviews include reviewing credit risk rating on a regular basis. In order to effectively monitor and manage its credit risks, the Bank has, therefore, set up the following divisions.

• Risk Management Division is responsible for analyzing and reporting to management on the status of various risks of the Bank, as well as proposing recommendations for the review of the overall risk policy of the Bank in anticipation

of, and in compliance with, new rules, regulations and international standards. The division is also responsible for overseeing the management of each type of risk to comply with the Bank's risk management policy.

- Credit Management Division is responsible for managing risks related to credit extension by supervising and monitoring credit extensions in accordance with the Bank's credit policies. The Credit Management Division comprises the Credit Policy Unit, the Credit Acceptance Unit, the Portfolio Management Unit, the Risk Asset Review Unit, the Special Asset Management Unit, the Loan Recovery and Legal Unit, and the Bank Property Unit. The functions of each unit are summarized below
 - Credit Policy Unit oversees the credit policy framework and coordinates the improvement and adjustment of the
 credit policy. It is also responsible for disseminating the credit policy, credit standards and credit processes; for
 monitoring and overseeing exceptional cases which are inconsistent with the credit policy; and for gathering
 various inputs which may be used for improving the credit policy.
 - Credit Acceptance Unit oversees the quality of credit extensions to ensure they are in line with the credit policy
 and credit underwriting standards, reviews the appropriateness of loan structures as well as the results of
 customers' credit risk ratings, promotes the development of a good credit culture, and maintains a systematic and
 reliable credit extension process.
 - Portfolio Management Unit is responsible for analyzing and making recommendations for adjustments to the
 portfolio structure, recommending the appropriate portfolio composition and the provision of reserves for loan
 losses at the portfolio level, developing and overseeing credit risk management tools and methodologies,
 constructing credit databases, and overseeing related management standards.
 - Risk Asset Review Unit is charged with reviewing credit quality and credit management processes, assessing the adequacy of loan loss reserves, and evaluating compliance with credit policy, regulations and credit underwriting standards.
 - Special Asset Management Unit is responsible for managing non-performing loans, and for determining and executing strategies for the resolution and restructuring of troubled loans.
 - Loan Recovery and Legal Unit is responsible for taking legal actions, negotiating loan settlements, and seizing collateral for sale by public auction.
 - Bank Property Unit is responsible for managing and selling foreclosed assets obtained from loan recovery
 processes and from legal actions.

For the credit process, credit applications are first considered by the business units and then submitted to the Credit Acceptance Unit. The unit conducts additional analysis to help mitigate credit risk by ensuring that the proposals comply with the Bank's credit policies in areas such as credit underwriting standards, credit risk rating, and collateral appraisal. In handling non-performing loans, there is a specific unit to manage and resolve such loans. The Bank also has an independent unit to review credit quality and credit management processes; assess the adequacy of loan loss reserves for non-performing loans; evaluate the effectiveness in complying with credit policy, regulations and credit underwriting standards; and assess the appropriateness of portfolio composition, the adequacy of capital and the effectiveness of stress testing as specified by the Bank and the BOT. All the above units report on a regular basis to the senior management, the Board of Executive Directors and the Risk Oversight Committee.

The Bank has established different measures to control credit risk. For example, the Bank has instituted limits on the amount of total credit extended, contingent liabilities, and investment in a group of borrowers, an industry and a country. All of this will limit the loss of capital due to an economic downturn. Moreover, the Bank monitors and reports on these aspects to the senior management, the Board of Executive Directors and the Risk Oversight Committee to ensure that there will be adequate capital to safeguard the continuity of business operations in difficult times.

For the subsidiaries in the Group, credit risk management processes similar to that of the Bank have been established, but the organizational structure of the units that are responsible for the supervision and management of credit risk may vary according to the structure of each company.

3.1.2 Classification and Impairment of Assets

The Bank and each subsidiary in the Group follow the guidelines of the BOT and/or the relevant local regulators regarding the classification of assets and relevant provisions by classifying assets into three stages as credit exposures where there has not been a significant increase in credit risk (Performing or stage 1), credit exposures where there has been a significant increase in credit risk (Under-Performing or stage 2) and financial assets are assessed as credit impaired (Non-Performing or stage 3) according to Thai Financial Reporting Standards No. 9 regarding Financial Instruments (TFRS 9) which has been announced by the Federation of Accounting Professions and effective from January 1, 2020 by taking into consideration the length of time in default of payment whether of principal or interest, and also qualitative measures.

Under the Standardised Approach (SA) for measuring capital adequacy, the Bank and the subsidiaries in the Group's provisions are categorized into Specific Provision and General Provision as follows:

- Specific Provision comprise allowance for expected credit loss of assets and financial guarantees based on TFRS 9 which is allowance for loss that "Expected" to occur or may occur by taking into consideration the economic factors or other factors in the past, present, and expected to occur in the future which may affect the probability that borrowers will not comply with bank's agreements, and allowance for expected credit loss considered by managerial judgement to have additional provision (Management Overlay) for circumstances, limitations, or any other rational possibilities that may not be precisely captured by the model. However, Specific Provision does not include Performing and Underperforming assets' allowance into account, as Tier 2 capital has already taken it into account.
- General Provisions is provisions that has been set aside for assets classified as Performing and Under-Performing that are included in Tier 2 Capital.

The following tables present the quantitative information related to credit risk at the Bank and the Group level as at December 31, 2022 and 2021.

Table 8: Significant on-statement of financial position assets and off-balance sheet items before credit risk mitigation classified

by remaining maturity

					The Group				
				31	December 202	2			
Remaining maturity		On-stateme	nt of financial po	cition accote			Off-balance	sheet items	
		On stateme	nt or imanciar po	sition assets		before	multiplying by c	redit conversion	factors
	Net loans	Net	Deposits	Derivatives	Total	Avals, loan	отс	Undrawn	Total
	and accrued	investment	(including	assets		guarantees,	derivatives	committed	
	interest	in debt	accrued			letters of		lines	
	receivables*	securities	interest			credit			
			receivables)						
Up to 1 year	1,311,321	277,675	275,881	31,824	1,896,701	56,453	1,693,824	54,933	1,805,210
Over 1 year	1,654,644	543,720	-	53,015	2,251,379	21,158	1,465,625	76,044	1,562,827
Total	2,965,965	821,395	275,881	84,839	4,148,080	77,611	3,159,449	130,977	3,368,037

* Including interbank and money market items but excluding general provisions

Unit: Million Baht

Unit: Million Baht

					The Group				
				31	December 202	1			
Remaining maturity		On-stateme	nt of financial po	sition assets			Off-balance	sheet items	
						before	multiplying by c	redit conversion	factors
	Net loans	Net	Deposits	Derivatives	Total	Avals, loan	отс	Undrawn	Total
	and accrued	investment	(including	assets		guarantees,	derivatives	committed	
	interest	in debt	accrued			letters of		lines	
	receivables*	securities	interest			credit			
			receivables)						
Up to 1 year	1,384,026	203,263	252,419	9,421	1,849,129	46,124	1,200,188	46,447	1,292,759
Over 1 year	1,565,326	577,599	2,259	32,938	2,178,122	36,935	1,729,614	102,418	1,868,967
Total	2,949,352	780,862	254,678	42,359	4,027,251	83,059	2,929,802	148,865	3,161,726

* Including interbank and money market items but excluding general provisions



Unit: Million Baht

Unit: Million Baht

					The Bank						
				31	December 2022	2					
Remaining maturity		On stateme	nt of financial po	cition accosts		Off-balance sheet items					
		On-statemer	nt of financial po	sition assets		before	multiplying by o	credit conversion	factors		
	Net loans	Net	Deposits	Derivatives	Total	Avals, loan	отс	Undrawn	Total		
	and accrued	investment	(including	assets		guarantees,	derivatives	committed			
	interest	in debt	accrued			letters of		lines			
	receivables*	securities	interest			credit					
			receivables)								
Up to 1 year	1,133,427	200,372	124,510	30,747	1,489,056	47,689	1,627,161	28,554	1,703,404		
Over 1 year	1,450,781	500,132	-	52,836	2,003,749	15,071	1,452,710	67,766	1,535,547		
Total	2,584,208	700,504	124,510	83,583	3,492,805	62,760	3,079,871	96,320	3,238,951		

* Including interbank and money market items but excluding general provisions

		The Bank											
				31	December 202	1							
Remaining maturity		On-statemer	nt of financial po	osition assets		Off-balance sheet items before multiplying by credit conversion factors							
	Net loans and accrued interest receivables*	Net investment in debt securities	Deposits (including accrued interest	Derivatives assets	Total	Avals, loan guarantees, letters of credit	OTC derivatives	Undrawn committed lines	Total				
Up to 1 year	1,200,424	160,823	receivables)	8,995	1,492,762	43,127	1,130,874	29,603	1,203,604				
Over 1 year	1,351,512	498,598	-	32,754	1,882,864	26,820	1,718,733	70,857	1,816,410				
Total	2,551,936	659,421	122,520	41,749	3,375,626	69,947	2,849,607	100,460	3,020,014				

* Including interbank and money market items but excluding general provisions

Table 9: Significant on-statement of financial position assets and off-balance sheet items before credit risk mitigation classified

by customer's country of residence

								Un	it: Million Bah		
					The Group						
	31 December 2022										
Customer's country of residence		0					Off-balance	e sheet items			
		On-stateme	nt of financial po	sition assets	before r	nultiplying by c	redit conversion	factors			
	Net loans	Net	Deposits	Derivatives	Total	Avals, loan	отс	Undrawn	Total		
	and accrued	investment	(including	assets		guarantees,	derivatives	committed			
	interest	in debt	accrued			letters of		lines			
	receivables ²	securities	interest			credit					
			receivables)								
Thailand	2,314,552	612,459	31,983	53,194	3,012,188	50,059	2,139,301	50,598	2,239,958		
Asia	611,740	166,289	209,705	24,011	1,011,745	26,328	774,684	60,882	861,894		
Europe	21,318	1,704	8,823	7,491	39,336	322	236,184	5,421	241,927		
America	18,125	40,618	25,370	143	84,256	902	9,280	14,076	24,258		
Others	230	325	-	-	555	-	-	-	-		
Total	2,965,965	821,395	275,881	84,839	4,148,080	77,611	3,159,449	130,977	3,368,037		

¹ Based on customer's country of residence

² Including interbank and money market items

Unit: Million Baht

					The Group							
		31 December 2021										
Customer's country of residence ¹		On-statemer	nt of financial po	sition assets	Off-balance sheet items before multiplying by credit conversion factors							
	Net loans and accrued	Net investment	Deposits (including	Derivatives assets	Total	Avals, loan guarantees,	OTC derivatives	Undrawn committed	Total			
	interest receivables ²	in debt securities	accrued interest			letters of credit		lines				
			receivables)									
Thailand	2,291,982	587,145	24,857	32,038	2,936,022	53,814	2,024,827	64,307	2,142,948			
Asia	624,205	154,167	187,445	8,477	974,294	28,677	670,276	72,310	771,263			
Europe	18,032	908	7,098	1,785	27,823	257	222,580	2,048	224,885			
America	14,918	37,952	35,278	59	88,207	311	12,119	10,200	22,630			
Others	215	690	-	-	905	-	-	-	-			
Total	2,949,352	780,862	254,678	42,359	4,027,251	83,059	2,929,802	148,865	3,161,726			

¹ Based on customer's country of residence

² Including interbank and money market items but excluding general provisions



Unit: Million Baht

					The Bank				
				31 D	ecember 2022				
Customer's country of residence ¹		On-statement	t of financial posi	ition assets			Off-balance	e sheet items	
		Para entre						redit conversion	factors
	Net loans and	Net	Deposits	Derivatives	Total	Avals, loan	OTC	Undrawn	Total
	accrued	investment	(including	assets		guarantees,	derivatives	committed	
	interest	in debt	accrued			letters of		lines	
	receivables ²	securities	interest			credit			
			receivables)						
Thailand	2,308,301	589,307	17,290	53,137	2,968,035	50,059	2,137,509	50,598	2,238,166
Asia	236,208	68,550	73,185	22,813	400,756	11,477	696,898	26,225	734,600
Europe	21,332	1,704	8,807	143	31,986	322	236,184	5,421	241,927
America	18,136	40,618	25,228	7,490	91,472	902	9,280	14,076	24,258
Others	231	325	-	-	556	-	-	-	-
Total	2,584,208	700,504	124,510	83,583	3,492,805	62,760	3,079,871	96,320	3,238,951

¹ Based on customer's country of residence

² Including interbank and money market items but excluding general provisions

Unit: Million Baht

					The Bank								
		31 December 2021											
Customer's country of residence ¹		On-statement	of financial pos	ition accate			Off-balance	e sheet items					
		On-statement	or manerar pos	before i	multiplying by c	redit conversion	factors						
	Net loans and	Net	Deposits	Derivatives	Total	Avals, loan	отс	Undrawn	Total				
	accrued	investment	(including	assets		guarantees,	derivatives	committed					
	interest	in debt	accrued			letters of		lines					
	receivables ²	securities	interest			credit							
			receivables)										
Thailand	2,285,838	562,574	9,488	31,738	2,889,638	53,846	2,019,843	64,307	2,137,996				
Asia	232,926	57,297	80,728	8,167	379,118	15,532	596,856	23,905	636,293				
Europe	18,037	908	6,530	1,785	27,260	258	220,831	2,048	223,137				
America	14,920	37,952	25,774	59	78,705	311	12,077	10,200	22,588				
Others	215	690	-	-	905	-	-	-	-				
Total	2,551,936	659,421	122,520	41,749	3,375,626	69,947	2,849,607	100,460	3,020,014				

¹ Based on customer's country of residence

² Including interbank and money market items but excluding general provisions

Table 10: Outstanding of financial instruments before credit risk mitigation and provisions

Unit: Million Baht

				The Group							
	31 December 2022										
Item	Outstanding amounts			Provisions und	er SA Approach	Provisions					
	Non-Performing	Performing	Total Provisions	General	Specific	under IRB	Net Value				
	exposures	exposures		Provision	Provision	Approach					
Loans and accrued interest receivables ¹	100,437	3,082,841	243,643	26,330	217,313	-	2,939,635				
Investment in debt securities ²	-	760,368	91	-	91	-	760,277				
Deposits and accrued interest											
receivables ³	-	276,052	257	86	171	-	275,795				
Loan commitment and financial											
guarantees	618	596,259	9,556	9,324	71	-	587,482				
Total	101,055	4,715,520	253,547	35,740	217,646	-	4,563,189				

¹ Including EIR adjustments, net of interest received in advance and gain/loss from new loan conditions (debt restructuring)

² Excluding accrued interest receivables and net of allowances for revaluation and excluding investment in receivables

³ Including EIR adjustments

Unit: Million Baht

				The Group								
		31 December 2021										
Item	Outstanding	g amounts		Provisions und	er SA Approach	Provisions						
	Non-Performing	Performing	Total Provisions	General	Specific	under IRB	Net Value					
	exposures	exposures		Provision	Provision	Approach						
Loans and accrued interest receivables ¹	103,705	3,038,927	219,878	26,598	193,280	-	2,922,754					
Investment in debt securities ²	-	713,537	11	-	11	-	713,526					
Deposits and accrued interest												
receivables ³	-	255,115	631	194	437	-	254,484					
Loan commitment and financial												
guarantees	941	619,440	7,744	6,903	356	-	613,122					
Total	104,646	4,627,019	228,264	33,695	194,084	-	4,503,886					

¹ Including EIR adjustments, net of interest received in advance and gain/loss from new loan conditions (debt restructuring)

² Excluding accrued interest receivables and net of allowances for revaluation and excluding investment in receivables

³ Including EIR adjustments



The Bank 31 December 2022 **Outstanding amounts Provisions under SA Approach** Item Provisions **Total Provisions** under IRB Net Value Non-Performing Performing General Specific Provision Provision Approach exposures exposures Loans and accrued interest receivables 24,334 84,077 2,690,013 214,216 189,882 2,559,874 Investment in debt securities 618,997 91 618,906 91 . Deposits and accrued interest receivables3 124,685 249 74 175 124,436 Loan commitment and financial 500,933 255 508,168 7,579 7,455 35 guarantees 84,332 3,941,863 222,135 31,863 190,183 3,804,149 Total -

¹ Including EIR adjustments, net of interest received in advance and gain/loss from new loan conditions (debt restructuring)

² Excluding accrued interest receivables and net of allowances for revaluation and excluding investment in receivables

³ Including EIR adjustments

Unit: Million Baht

Unit: Million Baht

				31 December 202	1		
Item	Outstanding amounts			Provisions under SA Approach		Provisions	
	Non-Performing Performin	Performing	Total Provisions	General	Specific	under IRB	Net Value
	exposures	exposures		Provision	Provision	Approach	
Loans and accrued interest receivables ¹	85,231	2,636,742	192,616	22,579	170,037	-	2,529,357
Investment in debt securities ²	-	574,854	6		6	-	574,848
Deposits and accrued interest							
receivables ³	-	122,967	588	141	447	-	122,379
Loan commitment and financial							
guarantees	364	528,420	6,412	6,181	65	-	522,538
Total	85,595	3,862,983	199,622	28,901	170,555	-	3,749,122

The Bank

¹ Including EIR adjustments, net of interest received in advance and gain/loss from new loan conditions (debt restructuring)

² Excluding accrued interest receivables and net of allowances for revaluation and excluding investment in receivables

³ Including EIR adjustments

Table 11: Loans and accrued interest receivables (including interbank and money market items) and investment in debt securities before credit risk mitigation classified by customer's country of residence and by asset classification guidelines specified by regulators

				The G	Froup			
				31 Decem	ber 2022			
Customer's country of	Los	ins and accrued	interest receivabl	es		Investment in	debt securities	
residence*	Performing	Under-	Non-	Total	Performing	Under-	Non-	Total
		Performing	Performing			Performing	Performing	
Thailand	2,288,056	125,133	83,622	2,496,811	604,887	7,662	-	612,549
Asia	612,416	17,314	16,337	646,067	166,290	-	-	166,290
Europe	21,410	10	454	21,874	1,639	65	-	1,704
America	18,252	22	10	18,284	40,618	-	-	40,618
Others	215	8	19	242	325	-	-	325
Total	2,940,349	142,487	100,442	3,183,278	813,759	7,727	-	821,486

Based on customer's country of residence

Unit: Million Baht

Unit: Million Baht

				The G	Froup			
				31 Decem	ber 2021			
Customer's country of	Los	ans and accrued	interest receivabl	es		Investment in	debt securities	
residence*	Performing	Under-	Non-	Total	Performing	Under-	Non-	Total
		Performing	Performing			Performing	Performing	
Thailand	2,257,997	111,687	81,649	2,451,333	585,185	1,966	-	587,151
Asia	611,323	24,593	21,564	657,480	153,766	406	-	154,172
Europe	18,006	99	474	18,579	908	-	-	908
America	15,001	4	15	15,020	37,952	-	-	37,952
Others	198	18	4	220	690	-	-	690
Total	2,902,525	136,401	103,706	3,142,632	778,501	2,372	-	780,873

* Based on customer's country of residence

Unit: Million Baht

				The I	Bank			
				31 Decem	lber 2022			
Customer's country of	Loa	ins and accrued	interest receivabl	es		Investment in	debt securities	
residence*	Performing	Under-	Non-	Total	Performing	Under-	Non-	Total
		Performing Performing					Performing	
Thailand	2,280,580	124,960	81,780	2,487,320	581,735	7,662	-	589,397
Asia	243,103	1,453	1,813	246,369	68,551	-	-	68,551
Europe	21,410	10	453	21,873	1,639	65	-	1,704
America	18,253	22	10	18,285	40,618	-	-	40,618
Others	216	8	19	243	325	-	-	325
Total	2,563,562	126,453	84,075	2,774,090	692,868	7,727	-	700,595

* Based on customer's country of residence

Unit: Million Baht

				The F	Bank			
				31 Decem	ber 2021			
Customer's country of	Loa	ins and accrued	interest receivable	s		Investment in	debt securities	
residence [*]	Performing	Under-	Non-	Total	Performing	Under-	Non-	Total
		Performing	Performing			Performing	Performing	
Thailand	2,250,811	111,413	80,344	2,442,568	560,613	1,966	-	562,579
Asia	235,439	5,753	4,394	245,586	57,298	-	-	57,298
Europe	18,006	99	474	18,579	908	-	-	908
America	15,001	4	15	15,020	37,952	-	-	37,952
Others	198	18	4	220	690	-	-	690
Total	2,519,455	117,287	85,231	2,721,973	657,461	1,966	-	659,427

* Based on customer's country of residence

 Table 12: General and specific provisions and bad debt written off for loans and accrued interest receivables (including interbank and money market items) and investment in debt securities classified by customer's country of residence

Unit: Million Baht

		The Group 31 December 2022						
Customer's country of residence [*]	Loans an	d accrued interest receiv	ables	Investment in debt securities				
	Provisions und	er SA Approach	Bad debt	Provisions under SA Approach				
	General Provision	Specific Provision	written off	Specific Provision				
Thailand		182,259	904	90				
Asia		34,327	4,484	1				
Europe		556	-	-				
America		159	-	-				
Others		12	-	-				
Total	26,330	217,313	5,388	91				

* Based on customer's country of residence

Unit: Million Baht

		Th	e Group					
		31 December 2021						
	Loans an	d accrued interest receiv	ables	Investment in debt securities				
Customer's country of residence*	Provisions und	er SA Approach	Bad debt	Provisions under SA Approach				
	General Provision	Specific Provision	written off	Specific Provision				
Thailand		159,351	1,258	6				
Asia		33,275	6,278	5				
Europe		547	-	-				
America		102	-	-				
Others		5	-	-				
Total	26,598	193,280	7,536	11				

* Based on customer's country of residence



Unit: Million Baht

		Th	ie Bank					
		31 December 2022						
	Loans an	nd accrued interest receiv	vables	Investment in debt securities				
Customer's country of residence [*]	Provisions und	er SA Approach	Bad debt	Provisions under SA Approach				
	General Provision	Specific Provision	written off	Specific Provision				
Thailand		179,019	904	90				
Asia		10,161	625	1				
Europe		541	-	-				
America		149	-	-				
Others		12	-	-				
Total	24,334	189,882	1,529	91				

* Based on customer's country of residence

Unit: Million Baht

		Th	e Bank	
		31 Dec	ember 2021	
	Loans an	d accrued interest receiv	ables	Investment in debt securities
Customer's country of residence*	Provisions und	er SA Approach	Bad debt	Provisions under SA Approach
	General Provision	Specific Provision	written off	Specific Provision
Thailand		156,730	793	6
Asia		12,660	-	-
Europe		542	-	-
America		100	-	-
Others		5	-	-
Total	22,579	170,037	793	6

^{*} Based on customer's country of residence

Table 13: Loans and accrued interest receivables (including interbank and money market items) before credit risk mitigation,

classified by business type and by asset classification guidelines specified by regulators

				Unit: Million Baht
		The G	roup	
		31 Decem	ber 2022	
Type of Business	Performing	Under-Performing	Non-Performing	Total
Agriculture and mining	76,194	2,664	2,308	81,166
Manufacturing and commercial	704,513	58,987	56,039	819,539
Real estate and construction	169,802	15,847	10,446	196,095
Utilities and services	445,541	43,408	12,820	501,769
Housing loans	290,689	13,435	10,040	314,164
Others	1,253,610	8,146	8,789	1,270,545
Total	2,940,349	142,487	100,442	3,183,278

		The Group							
	31 December 2021								
Type of Business	Performing	Under-Performing	Non-Performing	Total					
Agriculture and mining	96,481	3,011	3,276	102,768					
Manufacturing and commercial	737,718	55,162	59,480	852,360					
Real estate and construction	190,108	16,586	8,203	214,897					
Utilities and services	524,756	43,289	14,461	582,506					
Housing loans	305,658	13,277	11,994	330,929					
Others	1,047,804	5,076	6,292	1,059,172					
Total	2,902,525	136,401	103,706	3,142,632					



Unit: Million Baht

		The Bank							
		31 December 2022							
Type of Business	Performing	Under-Performing	Non-Performing	Total					
Agriculture and mining	48,811	2,366	1,905	53,082					
Manufacturing and commercial	592,960	52,776	46,179	691,915					
Real estate and construction	144,714	11,099	10,063	165,876					
Utilities and services	399,782	41,262	11,867	452,911					
Housing loans	254,824	12,781	8,699	276,304					
Others	1,122,471	6,169	5,362	1,134,002					
Total	2,563,562	126,453	84,075	2,774,090					

		The I	Bank	
		31 Decem	ber 2021	
Type of Business	Performing	Under-Performing	Non-Performing	Total
Agriculture and mining	66,932	1,792	2,727	71,451
Manufacturing and commercial	609,022	47,271	47,200	703,493
Real estate and construction	152,450	11,700	7,747	171,897
Utilities and services	453,218	40,445	12,638	506,301
Housing loans	247,618	11,948	9,651	269,217
Others	990,215	4,131	5,268	999,614
Total	2,519,455	117,287	85,231	2,721,973

Table 14: General and specific provisions and bad debt written off for loans and accrued interest receivables

(including interbank and money market items) classified by business type

The Group 31 December 2021 **31 December 2022** Provisions under SA Approach Provisions under SA Approach Bad debt Bad debt **Type of Business** General Specific General Specific written off written off Provision Provision Provision Provision 3,977 Agriculture and mining 4,284 598 -104,921 95,928 3,702 Manufacturing and commercial 1,737 Real estate and construction 17,857 549 15,779 39 Utilities and services 58,833 1,149 56,739 626 6,590 Housing loans 6,864 139 34 Others 14,267 24,554 1,814 2,537 26,330 26,598 Total 5,388 193,280 7,536 217,313

Unit: Million Baht

			The	Bank		
	3	1 December 202	22	3	1 December 202	21
	Provisions unde	er SA Approach		Provisions und	er SA Approach	
Type of Business	General	Specific	Bad debt	General	Specific	Bad debt
	Provision	Provision	written off	Provision	Provision	written off
Agriculture and mining		3,698	-		3,508	-
Manufacturing and commercial		90,603	130		81,152	15
Real estate and construction		14,274	547		13,709	-
Utilities and services		55,735	-		53,863	6
Housing loans		5,913	139		5,845	31
Others		19,659	713		11,960	741
Total	24,334	189,882	1,529	22,579	170,037	793

 Table 15: Reconciliation of general and specific provisions for loans and accrued interest receivables (including interbank and money market items)

Unit: Million Baht

			The C	Group		
	3	1 December 2022		3	31 December 2021	
	Provisions unde	er SA Approach		Provisions und	er SA Approach	
Item	General	Specific	Total	General	Specific	Total
	Provision	Provision		Provision	Provision	
Beginning balance	26,598	193,280	219,878	25,802	159,915	185,717
Doubtful accounts	(268)	28,484	28,216	796	39,417	40,213
Others	-	937	937	-	1,484	1,484
Bad debt written off	-	(5,388)	(5,388)	-	(7,536)	(7,536)
Ending balance	26,330	217,313	243,643	26,598	193,280	219,878

		The	Bank		
3	31 December 2022		3	1 December 2021	
Provisions und	er SA Approach		Provisions und	er SA Approach	
General	Specific	Total	General	Specific	Total
Provision	Provision		Provision	Provision	
22,580	170,036	192,616	21,623	142,000	163,623
1,754	20,903	22,657	956	27,314	28,270
-	472	472	-	1,516	1,516
-	(1,529)	(1,529)	-	(793)	(793)
24,334	189,882	214,216	22,579	170,037	192,616
	Provisions und General Provision 22,580 1,754	Provisions under SA Approach General Specific Provision Provision 22,580 170,036 1,754 20,903 - 472 - (1,529)	31 December 2022 Provisions under SA Approach General Specific Total Provision Provision 102,616 1,754 20,903 22,657 - 472 472 - (1,529) (1,529)	Provisions under SA Approach Provisions under General Specific Total General Provision Provision Provision Provision 22,580 170,036 192,616 21,623 1,754 20,903 22,657 956 - 472 472 - - (1,529) (1,529) -	31 December 2022 31 December 2021 Provisions under SA Approach Provisions under SA Approach Provisions under SA Approach General Specific Total General Specific Provision Provision 170,036 192,616 21,623 142,000 1,754 20,903 22,657 956 27,314 - 472 472 - 1,516 - (1,529) (1,529) - (793)

Table 16: On-statement of financial position assets and credit equivalent amount of off-balance sheet items, net of specific

provisions, classified by asset type under SA approach

					Uni	: Million Ba
			The G	roup		
	31	December 2022		31	December 2021	
Type of Asset	On-statement	Off-balance	Total	On-statement	Off-balance	Total
	of financial	sheet items*		of financial	sheet items*	
	position assets			position		
				assets		
Performing						
- Sovereigns and central banks, Multilateral						
development banks (MDBs), and						
Provincial organizations/ Government						
entities/ State enterprises (PSEs) which						
have the same risk weight as Sovereigns	1,294,404	41,662	1,336,066	1,303,540	43,591	1,347,13
- Financial institutions, Securities firms,						
and Provincial organizations/ Government						
entities/ State enterprises (PSEs) which						
have the same risk weight as Financial						
Institutions	247,853	99,657	347,510	247,950	66,147	314,09
- Corporates, and Provincial organizations/						
Government entities/ State enterprises						
(PSEs) which have the same risk weight						
as Corporates	1,871,823	278,825	2,150,648	1,821,926	293,408	2,115,33
- Retail	255,797	16,927	272,724	222,129	9,809	231,93
- Residential mortgage loans	303,590	-	303,590	282,769	21	282,79
- Other assets	427,663	-	427,663	400,445	292	400,73
Non-Performing	26,928	516	27,444	29,039	1,198	30,23
Total	4,428,058	437,587	4,865,645	4,307,798	414,466	4,722,26

* Including repo-style transactions



			The F	Bank		
	31	December 2022		31	December 2021	
Type of Asset	On-statement	Off-balance	Total	On-statement	Off-balance	Total
	of financial	sheet items *		of financial	sheet items*	
	position assets			position		
				assets		
Performing						
- Sovereigns and central banks, Multilateral						
development banks (MDBs), and						
Provincial organizations/ Government						
entities/ State enterprises (PSEs) which						
have the same risk weight as Sovereigns	1,019,597	18,513	1,038,110	1,070,462	10,096	1,080,558
- Financial institutions, Securities firms,						
and Provincial organizations/ Government						
entities/ State enterprises (PSEs) which						
have the same risk weight as Financial						
Institutions	235,517	98,220	333,737	223,029	65,534	288,563
- Corporates, and Provincial organizations/						
Government entities/ State enterprises						
(PSEs) which have the same risk weight						
as Corporates	1,630,928	241,238	1,872,166	1,519,343	254,035	1,773,378
- Retail	190,958	9,930	200,888	192,427	9,576	202,003
- Residential mortgage loans	265,914	-	265,914	257,633	-	257,633
- Other assets	499,968	-	499,968	470,791	-	470,791
Non-Performing	24,264	437	24,701	24,984	645	25,629
Total	3,867,146	368,338	4,235,484	3,758,669	339,886	4,098,555

* Including repo-style transactions

3.1.3 Credit Rating

In assigning risk weights for the calculation of risk weighted assets (RWA) using the Standardised Approach (SA) under Basel III, the Bank and the subsidiaries in the Group use credit ratings from the external credit assessment institutions (ECAIs) who meet the qualifications specified by the BOT. The credit rating from Standard & Poor's is applied for sovereign and financial institutions, while the credit ratings from Fitch Ratings (Thailand) and TRIS Rating are applied for corporate. The process of mapping the ECAI's ratings with the borrower risk weights is prescribed by the BOT.



Table 17: On-statement of financial position assets and credit equivalent amount of off-balance sheet items, net of specific provisions, after credit risk mitigation for each asset type classified by risk

weights under SA approach

Unit: Million Baht

							T	he Group							
Type of Asset							31 De	ecember 2022							
			Rating							No Rati	ıg				
Risk weight (%)	0	20	50	100	150	0	20	35	50	75	100	250	625	937.5	100/8.5%
Performing															
- Sovereigns and central banks, Multilateral development banks															
(MDBs), and Provincial organizations/ Government entities/ State															
enterprises (PSEs) which have the same risk weight as Sovereigns	1,319,423	18,611	75,934	1,988	10,547										
- Financial institutions, Securities firms, and Provincial organizations/															
Government entities/ State enterprises (PSEs) which have the same															
risk weight as Financial Institutions	-	135,087	102,632	28,281	640		-		-						
- Corporates, and Provincial organizations/ Government entities/															
State enterprises (PSEs) which have the same risk weight as															
Corporates	-	63,181	61,865	69,171	36,773	153	-		17,356		1,773,241				
- Retail										232,652	757				
- Residential mortgage loans								213,540		85,297	4,753				
- Other assets						179,652	1,331		-		243,729	290			
Risk weight (%)	0	20	50	75	100	150									
Non-Performing	137	-	3,070	100	22,638	747									
Items deducted from capital	40,010														



Type of Asset							31 De	ecember 2021							
			Rating							No Rati	ng				
Risk weight (%)	0	20	50	100	150	0	20	35	50	75	100	250	625	937.5	100/8.5
erforming															
Sovereigns and central banks, Multilateral development banks															
(MDBs), and Provincial organizations/ Government entities/ State															
enterprises (PSEs) which have the same risk weight as Sovereigns	1,381,104	28,968	20,018	2,896	10,742										
Financial institutions, Securities firms, and Provincial organizations/															
Government entities/ State enterprises (PSEs) which have the same															
risk weight as Financial Institutions	-	109,454	112,970	29,404	488		549		77						
Corporates, and Provincial organizations/ Government entities/															
State enterprises (PSEs) which have the same risk weight as															
Corporates	-	86,847	95,734	64,587	42,863	208	11,460		18,448		1,670,622				
Retail										192,616	1,268				
Residential mortgage loans								231,319		44,391	2,850				
Other assets						147,209	746		323		250,012				

	Risk weight (%)	0	20	50	75	100	150
Non-Performing		134	-	5,052	790	22,881	789

Items deducted from capital

41,787


														Unit:	Million Ba
								ie Bank							
Type of Asset							31 Dec	ember 2022							
			Rating							No Ratin	g				
Risk weight (%)	0	20	50	100	150	0	20	35	50	75	100	250	625	937.5	100/8.5
Performing															
Sovereigns and central banks, Multilateral development banks															
(MDBs), and Provincial organizations/ Government entities/ State															
enterprises (PSEs) which have the same risk weight as Sovereigns	1,075,266	18,558	22,190	1,988	10,547										
Financial institutions, Securities firms, and Provincial															
organizations/ Government entities/ State enterprises (PSEs)															
which have the same risk weight as Financial Institutions	-	116,872	92,367	19,210	640		-		-		24,194				
Corporates, and Provincial organizations/ Government entities/															
State enterprises (PSEs) which have the same risk weight as															
Corporates	-	63,182	61,865	69,786	36,682	1			15,837		1,515,442				
Retail										166,351	652				
Residential mortgage loans								200,917		60,583	4,414				
- Other assets						156,426	1,318				342,224				
Risk weight (%)	0	20	50	75	100	150									
Jon-Performing	137	-	2,781	100	20,571	420									

Items deducted from capital 24,295



														Unit:	Million Baht
							T	he Bank							
Type of Asset							31 Dec	cember 2021							
			Rating							No Ratin	g				
Risk weight (%)	0	20	50	100	150	0	20	35	50	75	100	250	625	937.5	100/8.5%
Performing															
- Sovereigns and central banks, Multilateral development banks															
(MDBs), and Provincial organizations/ Government entities/ State															
enterprises (PSEs) which have the same risk weight as Sovereigns	1,113,904	29,603	20,018	2,896	10,742										
- Financial institutions, Securities firms, and Provincial															
organizations/ Government entities/ State enterprises (PSEs)															
which have the same risk weight as Financial Institutions	-	83,775	89,824	29,465	488		549		77		23,394				
- Corporates, and Provincial organizations/ Government entities/															
State enterprises (PSEs) which have the same risk weight as															
Corporates	-	79,353	79,167	65,266	41,167	-			16,281		1,392,014				
- Retail										164,758	1,268				
- Residential mortgage loans								210,398		44,384	2,850				
- Other assets						125,319	740				344,732				
					· · · · ·										
Risk weight (%)	0	20	50	75	100	150									
Non-Performing	134	-	3,591	138	20,882	789									

Items deducted from capital 25,015

3.1.4 Credit Risk Mitigation

It is a policy of the Bank and the subsidiaries in the Group to mitigate credit risk through the use of collateral to reduce the potential loss which may arise when borrowers are unable or unwilling to repay loans. Documentation relating to collateral must be in order and verified for validity prior to loan drawdown and ongoing compliance with the conditions of the collateral agreement shall be monitored. Processes, procedures and regulations for collateral valuation have been defined, consistent with the BOT's guidelines on collateral valuation and foreclosed assets obtained from debt repayment of financial institutions.

Credit risk mitigations used in the Bank's and the Group's capital adequacy calculation under Basel III - SA approach are as follows:

- 1. For financial collaterals such as cash, deposits, debt securities and equity securities, the Comprehensive Approach is currently adopted for credit risk mitigation and the Standard Supervisory Haircut specified by the BOT is used.
- 2. On-balance sheet netting is used for repo-style transactions where the counterparties enter into a Global Master Repurchase Agreement that complies with the BOT guidelines.
- 3. Guarantees that may be used as credit risk mitigants must be issued by qualified guarantors from either of the following 2 groups:
 - Guarantors which are sovereigns, central banks, provincial organizations, government entities, state enterprises, financial institutions and securities companies, provided that the guarantors must have risk weights lower than the borrower.
 - Corporate guarantors must have risk weights lower than the borrower.

Credit risk mitigation is applied in accordance with the BOT guidelines.

 Table 18: Secured portion of credit exposures after on- and off-balance sheet netting for each asset type under SA approach

 classified by credit risk mitigation types

	The Group						
	31 Decer	nber 2022	31 December 2021				
Type of Asset	Financial	Guarantees	Financial	Guarantee			
	collateral	and credit	collateral	and credit			
		derivatives		derivatives			
Performing							
- Sovereigns and central banks, Multilateral development							
banks (MDBs), and Provincial organizations/ Government							
entities/ State enterprises (PSEs) which have the same risk							
weight as Sovereigns	8,062	-	2,073				
- Financial institutions, Securities firms, and Provincial							
organizations/ Government entities/ State enterprises							
(PSEs) which have the same risk weight as Financial							
institutions	19,570	81,720	2,282	77,77			
- Corporates, and Provincial organizations/ Government							
entities/ State enterprises (PSEs) which have the same risk							
weight as Corporates	109,808	37,005	102,971	44,15			
- Retail	21,215	18,100	17,972	20,08			
- Residential mortgage loans	-	-	1				
- Other assets	2,662	-	3,060				
Non-Performing	752	186	118	13			
Total	162,069	137,011	128,477	142,15			

	The Bank						
	31 Decer	nber 2022	31 Decer	nber 2021			
Type of Asset	Financial	Guarantees	Financial	Guarantee			
	collateral	and credit	collateral	and credit			
		derivatives		derivatives			
Performing							
- Sovereigns and central banks, Multilateral development							
banks (MDBs), and Provincial organizations/ Government							
entities/ State enterprises (PSEs) which have the same risk							
weight as Sovereigns	8,062	-	2,073				
- Financial institutions, Securities firms, and Provincial							
organizations/ Government entities/ State enterprises							
(PSEs) which have the same risk weight as Financial							
institutions	19,208	81,720	2,125	77,77			
- Corporates, and Provincial organizations/ Government							
entities/ State enterprises (PSEs) which have the same risk							
weight as Corporates	90,216	37,061	80,401	42,293			
- Retail	15,784	18,100	15,894	20,082			
- Residential mortgage loans	1	-	1				
- Other assets	-	-	-				
Non-Performing	691	186	95	13			
Total	133,962	137,067	100,589	140,280			



3.2 Market Risk

Market risk is the risk of loss in on- and off-balance sheet positions of the Bank and the Group arising from movements in market prices such as interest rates, equity prices, foreign exchange rates, and commodity prices.

3.2.1 Market Risk Management

The Bank's market risk arises from financial services activities provided to customers and/or financial institutions. These involve buying and selling foreign exchange and debt securities, as well as financial derivative transactions, such as foreign exchange forward contracts, cross currency swap, interest rate swap and foreign exchange option. The Bank manages market risk arising from the position from customer-driven transactions to be at acceptable levels by hedging or reducing the risk exposure. Market risk exposures also arise from the Bank's mismatched own asset and liability positions.

The primary objective of market risk management is to manage the risks resulting from changes in market factors to be at acceptable levels and in line with the overall risk management policy. The Bank and the subsidiaries in the Group have therefore established market risk management policies and specified market risk measurement metrics and limits taking into consideration the nature and complexities of the respective financial activities.

The committee and functional units that are mainly responsible for managing, monitoring and controlling the market risk are:

- The Asset-Liability Management Committee is responsible for establishing and reviewing policies and guidelines for asset and liability management and market risk management as well as monitoring and controlling these risks to be at acceptable levels and in compliance with the risk management policy set by the Risk Oversight Committee and the Board of Directors.
- The Treasury Division is responsible for executing the trading strategy for the Bank through buying and selling financial products such as foreign exchange, bonds, and derivatives instruments, as well as managing the Bank's foreign exchange risk, interest rate risk and liquidity risk to be within the limits according to ALCO's guidelines and the Bank's acceptable risk level.
- Market Risk Unit, which is part of the Risk Management Division, is accountable for assessing, monitoring, reporting and controlling market risk positions against specified limits. The Market Risk unit reports to ALCO and senior management on a regular basis and is responsible for proposing the enhancement of the market risk policies, measurement metrics and limits in response to change in operating environment, the Bank's business plans, and the complexities of financial activities. Moreover, the Market Risk unit coordinates with the subsidiaries of the Group to ensure that their risk management policies and processes are in line with the Bank's practices.

The market risk management practices of the subsidiaries in the Group are similar to the Bank's practices, although the relevant units responsible for overseeing, monitoring and managing the risks may differ depending on each company's organizational structure.



3.2.2 Traded Market Risk

The main traded market risks for the Bank and the Group are interest rate risk and foreign exchange risk.

Risk Assessment and Monitoring for Traded Market Risk

Various tools and measurement techniques are used to assess market risk exposures in the trading book, including:

1. Value-at-Risk (VaR)

VaR is a statistical technique that estimates the maximum potential losses on risk exposures as a result of movements in market rates and prices over a specified time horizon and at a given level of confidence. The Bank uses a historical simulation approach at a 99% confidence level over a one-day holding period to measure interest rate risk (only for general market risk) and foreign exchange risk. Historical Simulation VaR estimates the maximum potential losses assuming plausible future scenarios from the observed historical market movements. To validate the accuracy of the VaR model, the Bank conducts back testing against hypothetical profit and loss of the trading book positions and analyses whether the number of exceptions, i.e. the incidents where hypothetical profit and loss exceed the calculated VaR, are within an acceptable range. Hypothetical profit and loss is calculated by assuming that the previous day's exposures remain unchanged.

2. Other measurements

Apart from the statistical measurement technique, the Bank also uses non-statistical measurements, such as Present Value of a Basis Point (PV01), portfolio size, and mark-to-market profit and loss, to regularly assess major market risk exposures in the trading book as deemed appropriate for each transaction type. The PV01 measures the sensitivity of the value of securities to one basis point change in interest rate.

3. Stress Testing

The Bank performs market risk stress testing on its trading book position at least on a quarterly basis to determine if the impact of potential losses from extreme market movements or crisis situations on the Bank's capital are within the risk tolerance limits. Stress testing also enhances the Bank's understanding of its risk exposures and vulnerability as well as facilitates proactive risk management.

Risk Control for Traded Market Risk

Traded market risk is controlled primarily through a series of limits, such as VaR Limit, PV01 Limit, and Maximum Loss Limit, etc. These limits are specified by ALCO, and approved by the Risk Oversight Committee, the Board of Executive Directors and the Board of Directors. They are reviewed and updated at least once a year or more frequently when warranted by a material change in circumstances.

By using the historical simulation approach, the Bank's and the Group's VaR of the trading book for a one-day holding period with a 99 percent confidence level as of December 31,2022, was 344 million Baht and 339 million Baht, respectively.

The subsidiaries in the Group also use, to varying degrees based on the size and complexity of transactions, similar measurement tools and techniques to assess their market risk exposures in the trading book and have specified limits to control these exposures.



Capital Treatment for Traded Market Risk

The Bank currently adopts the Standardised Approach (SA) for the calculation of minimum capital requirement for market risk at both the Bank level and the Group level. In addition, the Bank and the subsidiaries in the Group use VaR models internally to measure, monitor and control traded market risks, as mentioned above in the risk assessment and monitoring section.

Minimum capital requirement for market risk at the Bank and the Group level as at December 31, 2022 and June 30, 2022 are as follows:

Table 19: Minimum capital requirements for market risk based on Standardised Approach (SA)

	The G	roup	The Bank		
Capital Requirements for Market Risk	ents for Market Risk 31 December 2022 30 June 2		31 December 2022	30 June 2022	
Interest Rate Risk	3,617	3,790	3,456	3,540	
Equity Price Risk	60	70	-	-	
Foreign Exchange Risk	2,547	2,416	2,477	2,421	
Commodity Price Risk	-	-	-	-	
Total Capital Requirement	6,224	6,276	5,933	5,961	

3.2.3 Interest Rate Risk in the Banking Book (IRRBB)

Interest rate risk in the banking book normally arises when the repricing and/or maturity schedule of assets, liabilities, and off-balance sheet positions are not matched, or when the movements of reference interest rates on assets and liabilities are not correlated, negatively affecting net interest income (NII) and/or economic value of equity (EVE).

Sources of Interest Rate Risk can be classified as follows:

- Repricing risk arises from timing differences in maturity (for fixed rate items) and repricing period (for floating rate items) of the Bank's assets, liabilities, and off-balance sheet positions. Repricing risk is the primary form of interest rate risk.
- Yield curve risk arises from changes in the shape and slope of yield curves arising from unparallel shifts of the yield curves, including yield curve twist.
- Basis risk arises from imperfect correlation of reference interest rates applicable to the Bank's assets, liabilities and offbalance sheet positions.
- Embedded option risk arises from changes in interest rate, causing uncertainty of cash flows due to the options embedded in assets, liabilities and off-balance sheet positions, such as non-maturity deposits and loans without prepayment penalty.



Risk Assessment and Monitoring for IRRBB

The measurement of interest rate risk in the banking book provides an assessment of the potential impact of interest rate change on NII, which will help the Bank and the subsidiaries in the Group to manage the risk and determine alternative balance sheet strategies to achieve business return targets. Furthermore, it also provides an assessment of the potential impact on EVE reflecting the sensitivity of the value of assets, liabilities and off-balance sheet positions to changes in interest rates.

The Bank employs both static analysis tools and dynamic simulation techniques to assess interest rate risk in the banking book, including:

1. Repricing Gap Analysis and Sensitivity Analysis

Repricing gap analysis is a traditional method widely used to assess the interest rate risk of current balance sheet positions. It captures repricing risk which is a primary form of interest rate risk, but does not capture yield curve risk, basis risk and embedded option risk.

The Bank uses repricing gap analysis to assess NII impact in the year ahead assuming assets, liabilities and off-balance sheet positions are static and interest rates change immediately across the curves. Repricing gap analysis is also used in conjunction with duration-based weights to estimate the potential impact of interest rate change on EVE.

The Bank assesses and monitors interest rate risk in the banking book through NII impact and EVE impact on a monthly basis.

2. Net Interest Income Simulation (NII Simulation)

NII simulation is a more granular and complex technique than repricing gap analysis. The Bank also uses NII simulation to measure interest rate risk because this technique allows for a projection of future NII under various interest rate scenarios, based on current positions of assets, liabilities, and off-balance sheet items, and assumptions regarding new business activities (dynamic position). This includes assumptions regarding the growth in the positions of balance sheet items, maturity profile of new transactions, product pricing, and the launch of new products. NII simulation is able to capture other types of interest rate risks i.e. yield curve risk, basis risk, and embedded option risk.

The Bank uses NII simulation technique to assess interest rate risk and project future NII from the business plan at least once a year.

3. Stress Testing

The Bank performs stress testing for interest rate risk in the banking book at least on a quarterly basis using static NII simulation on the current position, to assess the potential negative impact to NII under various stress scenarios. The results of stress testing are analyzed and used to determine alternative balance sheet strategies more suited to the business environment in order to achieve the business return target under an acceptable level of risk.

The NII impact for the Bank and the Group of a 100 bps interest rate change using NII Simulation as at December 31, 2022 and 2021 are as follows:



Table 20: Net Interest Income Impact if interest rate rises by 100 bps

Unit: Million Baht

	The Group						
Currency	31 Dece	mber 2022	31 December 2021				
	NII Impact	% Earning at Risk	NII Impact	% Earning at Risk			
THB	(805)	(0.79%)	(1,658)	(2.02%)			
USD	2,330	2.28%	1,122	1.37%			
Others	739	0.72%	665	0.81%			
Total NII Impact	2,264	2.21%	129	0.16%			
Estimated NII in next 12 months	102,223		82,156				

		The Bank						
Currency	31 Dece	mber 2022	31 December 2021					
	NII Impact	% Earning at Risk	NII Impact	% Earning at Risk				
THB	(1,098)	(1.40%)	(1,672)	(2.70%)				
USD	2,012	2.57%	861	1.39%				
Others	900	1.15%	473	0.76%				
Total NII Impact	1,814	2.32%	(338)	(0.55%)				
Estimated NII in next 12 months	78,204		62,011					



Risk Control for IRRBB

The Bank monitors and controls interest rate risk by specifying a NII Impact Limit (being the cumulative NII impact within 1 year) and an EVE Impact Limit, assuming interest rates change immediately by 100 bps. These limits are reviewed by ALCO and approved by the Board of Executive Directors, the Risk Oversight Committee and the Board of Directors at least annually or more frequently when warranted by material changes in circumstances.

The Bank manages the interest rate risk by adjusting its asset and liability structure in line with forecast interest rate trends, taking into consideration the changes in NII impact and EVE impact. The Bank may deploy plain vanilla derivatives, such as interest rate swaps and cross currency interest rate swaps, to hedge or mitigate interest rate risk to be within the risk tolerance limit, and manage the risk in accordance with ALCO's guidelines.

The subsidiaries in the Group with significant interest rate risks in the banking book use repricing gap analysis to assess and control IRRBB in the similar fashion as mentioned above.

3.2.4 Equity Exposure in the Banking Book

Equity price risk is the risk associated with equity price changes resulting in the deterioration of investment value and affecting the Bank's and the Group's capital.

Objectives of equity investment in the banking book are as follows

- To enhance income in terms of dividends and capital gains for medium to long-term investments
- To support core banking business by establishing good relationships with customers and creating networks of strategic investment partners
- To exchange for debt repayments from debt restructuring agreements

The Bank's equity price risk arises from various types of investments in both domestic and overseas markets in order to diversify risk, to enhance returns, and to support the development of the Thai capital market, such as investments in property funds and infrastructure funds. In the past year, the Bank's portfolio of equity investment grew considerably, mainly from investment in domestic and foreign listed companies.

The Bank and the subsidiaries in the Group classify equity investments in the banking book in accordance with the applicable accounting standards, with marketable securities classified as available-for-sale investment, non-marketable securities classified as general investment, investment in subsidiaries and investment in associated companies.

Risk Assessment and Monitoring for Equity Exposure in the Banking Book

The market risk management policy is used as a guideline by the Bank and the subsidiaries in the Group in assessing, monitoring, and controlling equity price risk. Measurement techniques for the assessment of equity price risk can be categorized by equity type as follows:

- Listed equity securities: Fair value is used for risk assessment. Stress testing is performed on a quarterly basis, based on the stress scenarios implied from historical movements of the security exchange indices, to estimate the maximum potential losses that may occur during volatile market conditions.
- Other equity securities: Fair value is used for risk assessment, the reliability of which is reviewed at least annually or more frequently as warranted by market conditions.

In managing equity risk in the banking book, the Bank, as the parent company, controls the ratio of equity exposures to total capital to be in accordance with the BOT's regulation and the Bank's internal guidelines.

Valuation Policy for Equity Exposure in the Banking Book

In establishing the fair value of equity securities, the Bank and the subsidiaries in the Group adopts the following valuation

policy:

- Listed equity securities are fair valued by referencing the last bid price on the last business day of the period. If this is not available, the last closing price will be applied. Listed equity securities under rehabilitation are fair valued using the discounted cash flow approach or the net asset value approach, as appropriate.
- Other equity securities that are non-listed equity securities are fair valued using the discounted cash flow approach or the net asset value approach, as appropriate. For unit trusts, the fair value is based on net asset value (NAV) as at the end of the period.

Equity exposure in the banking book for the Bank and the Group as at December 31, 2022 and 2021 are as follows:

Table 21: Equity exposures in the banking book

The Group The Bank 31 December 2022 31 December 2021 **31 December 2022** 31 December 2021 **Equity exposures** Equity exposures • Equity securities listed on a securities exchange (domestic and foreign) 84,750* 83,115* 187,013* 186,449* • Other equity securities (domestic and 22,025* 58,034* foreign) 17,317* 54,978* Gains (losses) on sales of equity securities 1,257 3,570 1,194 3,826 for the year Unrealized gains (losses) on investments at fair value through other comprehensive income 29,548 30,580 29,755 30,820 Minimum capital for equity exposures under 12,910 20,038 22,761 22,750 SA approach

* Net Fair Value for the investment in equity securities

3.3 Liquidity Coverage Ratio (LCR)

According to the Basel III guideline, the Bank is subject to the Liquidity Coverage Ratio (LCR) requirement imposed by the BOT. This guideline aims to ensure that a bank has adequate liquidity to support short-term severe liquidity stress scenarios by requiring a bank to maintain High-Quality Liquid Asset (HQLA) to cover Total Net Cash Outflows over the next 30 calendar days under severe liquidity stress scenarios (NCOF). The BOT has required commercial banks to maintain LCR at the end of each month not less 100% since January 1, 2020. The LCR calculation is as follow.

	Stock of High-Quality Liquid Asset (HQLA)
LCR =	Total Net Cash Outflow over the next 30 days estimated
	under severe liquidity stress scenarios (NCOF)

HQLA is unencumbered high-quality liquid asset that can be easily and immediately converted into cash at little or no loss of value even under severe liquidity stress scenarios. All high-quality liquid assets must also meet the minimum standard as stipulated by the BOT. When calculating the amount of HQLA, the value of all qualified assets must be combined and deducted by the haircut value as specified by the BOT. The caps of each class of HQLA must be considered.

NCOF is calculated by deducting the total expected cash inflow from the total expected cash outflow within the period of 30 days during the severe liquidity stress scenario. The total expected cash inflow cannot exceed 75% of the total expected cash outflow and cannot include those assets that are already qualified as HQLA. In calculating expected cash inflow and outflow, the Bank estimates the flows by applying the inflow rates and the run-off rates specified by the BOT.

The Bank's quarterly LCR which is an average of month-end value in each quarter is shown below.

Table 22: Liquidity Coverage Ratio

Average Value for the fourth quarter² Items Year 2022 Year 2021 Total High-Quality Liquid Assets (HQLA) 966,121 1,140,364 Total expected net cash outflows within the next 30 days (NCOF) 356,939 422,597 LCR 271% 270% Minimum LCR required by the Bank of Thailand 100% 100%

Note

¹ The LCR is computed as an average ratio of month-end LCR in the quarter. This may not be equal to an LCR computed with the average values of HQLA and NCOF.

² Average of month-end value in the quarter.



The Bank's average LCR for the third quarter and the fourth quarter of 2022 in comparison with those of 2021 are shown below.

Table 23: Comparison of Liquidity Coverage Ratio

Av	erage LCR	Year 2022	Year 2021
The third quarter		290%	277%
The fourth quarter		271%	270%

For the fourth quarter of 2022, the Bank's average LCR was 271 percent, well above the regulatory minimum requirement of 100 percent.

The Bank's average HQLA was 966,121 million Baht for the fourth quarter of 2022. Of this amount, 94 percent was Level 1 HQLA, which included cash and qualifying debt securities issued or guaranteed by governments, central banks and state enterprises. The remaining was Level 2 HQLA, which were mainly qualifying corporate debt securities rated at least A or equivalent and promissory notes issued by Thailand's Ministry of Finance.

The Bank's average NCOF was 356,939 million Baht for the fourth quarter of 2022. The expected net cash outflows of the Bank were mainly driven by deposits and borrowings from retails and corporates, as well as contingent bond bought. The main drivers of the Bank's inflows were fully- performing loans, interbank placement and contingent bond sold.

The Bank assesses, monitors and controls liquidity risk through a variety of measurements, along with the LCR, such as loan-to-deposit ratio, cumulative net cash flow positions, funding concentration and Net Stable Funding Ratio. The Bank also regularly monitors the early warning indicators to detect any potential liquidity crisis. This is to ensure that the Bank has sufficient liquidity for business operation as usual and can proactively manage liquidity risk.

3.4 Operational Risk

Operational Risk is the risk of loss from inadequate or failed internal processes, people and systems, or from external events. This includes legal risks, but does not include strategic risks and reputational risks.

The Bank understands that good operational risk management is vital to sustainable business success, particularly in the current environment of uncertainty, both domestic and international, prevail. Thus, effective operational risk management with sufficient coverage of all aspects of operations is a key priority for the Bank and the Group, and includes being well-prepared to deal promptly with unexpected events, including the compliance with regulations in Thailand and overseas which has become more demanding.

Furthermore, the Bank pays close attention to operating its businesses in accordance with the principles of market conduct covering the quality of customer service and customer care, suitability of products and services sold, reinforcement in system security, information systems, and all electronic/digital channels as well as risk management of fraud related to bank products and services such as credit cards, ATM cards and electronic services to ensure customer confidence. In relation to a new product launches, the product and service risks must be well analyzed, assessed and controlled to be at the acceptable level, and the appropriate risk control procedures must be in place.



Operational Risk Management

The process by which the Bank and the subsidiaries in the Group addresses operational risk management covers defining, assessing, monitoring, mitigating and controlling risk. Each unit in the organization is directly responsible for managing its operational risk and for establishing measures to mitigate, monitor and control risk to the designated level by allocating appropriate resources and establishing an organizational culture for managing operational risk.

The Bank has The Operational Risk Management Committee ("ORMC"), comprising senior executives from various business and support units, which is responsible for supporting and overseeing the functioning of the Bank's operational risk management, information technology risk management, and business continuity management to comply with the Bank's policy.

The Bank has a dedicated unit for operational risk management under its Risk Management Division, which is responsible for the operational risk management system, such as monitoring and supporting every unit in implementing the operational risk management framework at the unit level, managing operational risk at the organization level, reviewing operational risk management in the process of product and service development, calculating the capital required for operational risk under the Basel framework, and maintaining and analyzing data on the operational risk loss data system.

The Bank also ensures the cooperation among Operational Risk Unit, Compliance and Audit and Control Division, in respect of information sharing, analyzing and setting of controls to enhance the efficiency of operational risk management and internal control of the Bank

Likewise, the subsidiaries in the Group have assigned the responsibility for operational risk management at both the unit and the organization level, in line with the Bank's practices, although the relevant units responsible for overseeing, monitoring, and managing operational risk may differ depending on each company's organizational structure.

Operational Risk Assessment and Monitoring

A key principle underlying the Bank and the subsidiaries' operational risk management is to educate staff throughout the organization providing them with a consistent understanding of operational risk, and to cultivate a sustainable operational risk culture as part of day-to-day business activities across the Bank, through Operational Risk Management Tools, e.g. Risk Control Self-assessment (RCSA), so that they are able to accurately and completely identify the operational risks, assess the risk, analyze details of the risks, assess the effectiveness of controls, find appropriate solutions to mitigate risks, and implement the selected solutions to minimize risks. This is followed by systematic monitoring of progress, measurement of potential risk, e.g., Risk Monitoring Information (RMI) and Loss Data collection, and the use of reporting systems as key elements of compiling and analyzing preventive and control measurements, and/or effectively diminishing operational risk, as well as regular reviews of the entire process.

Loss data arising from operational risk events for the Bank and the subsidiaries in the Group are maintained in a database. Reports on operational risk exposures and operational risk management are provided on a regular basis.



Operational Risk Mitigation

An important mechanism in controlling, preventing, and mitigating operational risk is an effective internal control system with strong participation of management. Each business unit must enforce operational controls vigorously, ensure compliance with regulations including anti-money laundering measures, implement the segregation of duties and procedures for verification and reconciliation, define approval authorities as well as establish limits commensurate with the scale of the business, the business type and level of staff. The reliability of the information technology system and the security measures related thereto is also of paramount importance.

The Bank and the subsidiaries in the Group have implemented Business Continuity Management (BCM) to enhance their resilience and their capability of responding to unexpected interruptions. The Group has adopted a BCM Policy and a Business Continuity Plans, which are reviewed and updated in accordance with potential threats, as well as being tested on an annual basis.

The Calculation of Value Equivalent to Operational Risk-weighted Asset

The Bank currently uses the Standardised Approach - Operation Risk (SA-OR) to calculate the value equivalent to operational risk-weighted asset at both the Bank level and the Group level. This calculation approach allocates the gross income into business lines and multiplies with a Beta value each business line as prescribed by the BOT.

3.5 Information Technology Risk

Information Technology (IT) Risk is the potential risk from using information technology which will have an impact on the system or operation, and the risk from cyber threats.

Key IT risk factors of the Bank are composed of internal factors and external factors. Internal factors are the Bank's systems, in terms of their capability, their complexity and the adoption of technology for the Bank's business operations; the issue of system and data security, the issue of system and data security, especially personal data; the accuracy and completeness of data processing; personnel knowledge of new technologies and development of competency in using new technologies; and the adequacy of the Bank's personnel regarding IT risk awareness and understanding. External factors are more diversified, rapid and complex forms of IT risk and cyber threats. Moreover, current risks from changes in the business-chain environment that rely on technology. Moreover, current business supply chains are changing including the interconnection of business information causing linkage in technology risks in the business supply chain and creating business impact as well as risk due to the transformation of the business landscape in the era of digitalization.

The Bank is aware of the risks arising from the use of IT and the importance of information security and cybersecurity. The Bank has enhanced IT Risk Management Policy and Information Security and Cybersecurity Policy. Moreover, the Bank has enhanced the readiness of its IT governance and IT risk management throughout the Bank by putting in place a framework for the following areas: strengthening cyber security to meet the most up-to-date standards and covering new technology adoption processes; assessing cyber risk and making appropriate adjustments to the assessment framework according to each situation; regularly building awareness and understanding of cyber security with staff and customers; developing contingency plans to rapidly and effectively handle different forms of cyber risk to reduce its impact; and collaborating with external organizations to further strengthen the Bank's readiness to both effectively prevent and handle cyber risk.



3.6 Strategic Risk

Strategic risk means the risk arising from formulating, conducting, and implementing strategic plans that are inappropriate or inconsistent with critical internal and external environments which may affect the income, capital and survival of the business.

The Bank has prepared a systematic business plan by taking into account the internal and external business environments, risk factors, trends, and business opportunities covering the economic, financial, social, and general environments. This is used as a foundation for planning and assessing the Bank's key opportunities and obstacles, strengths and weaknesses, to guide its business strategies. Furthermore, the Bank has assessed any risks that may affect its operating results and capital adequacy.

The Bank has established a process to regularly monitor, evaluate, and review the implementation of the plan so that it will be completed in a timely manner with efficiency and effectiveness according to its objectives. This enables the Bank to adjust its strategic plans in an appropriate and timely manner. The Bank's Board of Directors and senior management regularly receive reports on the progress of, and adjustments made to, strategic plans.

The Bank attaches great importance in having risk management systems that run in parallel to its business operations. These systems are managed by the Risk Oversight Committee, Risk Management Division, Audit and Control Division, and Compliance Unit as well as senior executives responsible for risk management. The Bank also implements policies, prepares operational manuals and regularly reports issues to the Board of Directors.

3.7 Compliance Risk

Compliance risk refers to the risk arising from non-compliance with laws, rules, regulations, standards and guidelines that are applicable to banking transactions, including providing fair treatment to customers. Failure to comply may result in fines, penalties, or damages from complaints, litigation or other legal action.

Compliance risk management is fundamental to the Bank's business operations as the Bank currently operates more diverse and complex business operations so it can effectively respond to the needs of its customers under changing market conditions. At the same time, the Bank must comply with the rules and regulations of Thailand and other countries.

The Bank has established a Compliance Mandate with appropriate policies and procedures to limit possible damages that may occur from non-compliance with rules and laws within the Compliance Risk Appetite. The Bank has also established a vision and mission for compliance risk management.

To ensure the management of compliance risk without intervention, the Bank has established its Compliance Unit which is independent from business units and Internal Audit. The Compliance Unit acts as a compliance center, giving advice and providing consultation about regulations, prepares compliance guidelines, monitors any rules and regulations that may affect the Bank's operations, and reports to department managers, senior management and the Board of Directors on any important issues arising from the Bank's operations.

Furthermore, the Bank has established the Compliance Framework which establishes the key elements of its compliance risk management, such as governance structure, internal policies and plans, compliance risk management process, external relations, reporting, data and technology, people and skills, and interaction with other control functions, to assure this delivers the maximum benefit to the Bank. In the past year, the Bank has monitored the changes in regulations and laws related to the Bank's business operations and assessed the risk level and impact on the Bank, in order to consider how to improve operations to be in line with the changed regulations and laws in an accurate and timely fashion.



3.8 Reputation Risk

Reputation risk is a major risk that has significant implications for an organization. It is a knock-on consequence of other risks inherent in conducting business and effectively increases the severity of the risk for the general public including customers, business partners, investors, regulators and so on as it can lead to a negative perception or lack of confidence in the Bank, which may affect the Bank's income and/or capital funds, both in the present and in the future.

Reputation risk management is directly linked to other risk management processes, including risk control, risk monitoring and risk mitigation. The Bank manages the reputation risk by conducting an annual reputation risk assessment that covers the key factors linked to the reputation of the organization ranging from the financial position and strength, business conduct in ac cordance with good governance principles and in compliance with laws and regulations, as well as the management of market conduct, etc. To monitor and control reputation risk effectively, if the assessment results reveal significant risk issues, the implementation of additional control or corrective measures will be considered to mitigate the impact of possible reputation risk. Important measures include the communication contingency plan, which is very important to reduce the impact from internal and external factors. In addition, timely and efficient detection and speed of response, as well as appropriate communication channels are also important factors in reputation risk management.