



PUBLIC DISCLOSURE ON CAPITAL ADEQUACY RATIO

(IN ACCORDANCE WITH THE CIRCULAR 41/2016/TT-NHNN)

As of 31st Dec 2021



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I. INTRODUCTION

The objectives of Public Disclosure in accordance with Circular 41 are providing the transparency information on status of equity, value of risk weighted and risk management framework of Wooribank Vietnam (“the Bank”) to related parties (depositors, government agencies, etc), based on the information the Bank can evaluate the capital adequacy ratio.

According to Public Disclosure of Circular 41, the Bank implements the qualitative and quantitative information on the capital adequacy ratio.

II. SCOPE OF CAPITAL ADEQUACY RATIO CALCULATION

1. Qualitative Content

According to regulations on financial reporting for credit institutions and foreign bank branches, the following entities are subject to consolidation and non-consolidation of the Bank:

- Subsidiaries: not any;
- Affiliated companies: not any;
- Exempt companies (insurance companies): not any;

The Bank, consisting of no subsidiaries or affiliated companies, shall only be subject to the minimum capital adequacy ratio based on its Financial Statements.

2. Quantitative Content

Amount of investment in a subsidiary which is an insurance business enterprise: not incurred.

III. CAPITAL STRUCTURE

1. Qualitative content

The capital of the Bank as of 31st Dec 2021 does not include stocks and no debt-equity instruments. The Bank’s own capital consists mainly of contributed capital from Wooribank Korea (“Mother bank”) and retained earnings from initial investment in Vietnam until now.

2. Quantitative content

Table 1. The Capital of the Bank

Unit: Million VND

Items	Amount (31/12/2021)
Tier 1 Capital	8,931,330
Tier 2 Capital	(83,388)
The Deductions from Capital	-
Own capital	8,847,942

IV. CAPITAL ADEQUACY RATIO

1. Qualitative Content

a. Process of calculation and management of Capital Adequacy Ratio (“CAR”)

Step 1: Collecting data

- Collect data
- Cleansing input data

Step 2: Calculating and monitoring CAR

- Calculate CAR through the automatic CAR calculating tool
- Test the accuracy of the calculating tool, ensure the exact CAR result
- Division independently check

Step 3: Approving and disclosing

- Management level approve the CAR result
- Report to SBV, disclose the information

b. Capital planning to secure capital adequacy ratio

The Bank establishes the targeted capital adequacy ratio for the period of the next 3-5 years and at least annually conducts the periodical judgement in order to adjust on time when there are changes in the business environment, law to meet the target of risk management. On the basis of established targeted capital adequacy ratio, the Bank establishes the suitable capital plan and business plan.

2. Quantitative Content

Table 2. Capital Adequacy Ratio & Risk Weighted Assets

Unit: Million VND

Criteria	Amount (31/12/2021)
CAR (%)	17.71%
Tier 1 capital adequacy ratio (%)	17.88%
Own capital	8,847,942
Total risk-weighted asset	49,960,625
Credit risk weight asset	47,272,458
Counterparty credit risk-weighted asset	122,271
Regulatory capital for operational risk	201,380
Regulatory capital for market risk	3,892

V. CREDIT RISK

Credit risk is one of the Bank's material risks, accounting for the highest proportion of the Bank's total regulatory capital. To manage and minimize credit risk, the Bank has focused on completing the credit risk management framework, upgrading information and technology systems, and implementing a series of initiatives to strengthen credit risk management system.

1. Qualitative Content

a. Credit risk management policy

The Bank has issued Credit Risk Management Policy to specify the issues needed for an accurate assessment of the Bank's credit risk. Accordingly, the Bank ensures that credit extension is in compliance with the laws and internal regulations of the Bank, maintains checking and supervising credit before, during and after extension; maintains independence and objectivity in risk assessment within the protection tiers at the same time.

The Bank has decentralized approval authority based on: credit size, customer credit rating and type of collateral. Woori Vietnam grants approval authority to 4 levels: consulting with the Mother Bank, credit Committee, credit officer Committee and Branch /transaction Office.

The Bank uses a credit rating model to conduct customer reviews. For corporate customers, the Bank has operated a model of customer credit ratings under Basel III standards with support from the parent Bank. Accordingly, indicators of credit risk such as PD (Probability at Default), EAD (Exposure at Default), LGD(Loss Given at Default) are calculated for each loan. For individual customers, the Bank has developed and operated a credit rating model based on customer information, credit status, and customer usage information.

Regarding collateral quality management, to ensure its independence, the Bank uses a third party valuation service when evaluating real estate.

Credit risk management is conducted through early identification, control, processing, together with system data analysis tools. The control points, identifiable risk areas will come through the functional departments to be measured, evaluated, early handled as well as analyzed the causes of arising reasons in order to create solutions to minimize and prevent arising items from the perspective of systems, processes, policies.

b. List of independent credit rating agencies

The Bank utilizes the credit rating scales of the following three independent credit rating agencies: Standard and Poor's (S&P), Moody's Investor Service (Moody's) and Fitch Rating.

c. Credit risk mitigation

Credit risk mitigation was carried out by the following methods:

- Collateral: valuable documents, savings card issued by credit institutions, foreign bank branches;
- Third party guarantee.

2. Quantitative Content

a. Risk weighted assets according to the credit rating scale

Table 3. Credit Risk Weighted Assets

Unit: Million VND

Classification of claims	Rating SBV	Risk weight	Value of asset with risk (31/12/2021)
Claims on countries' governments or central banks, non-central government public	From AAA to AA-	0%	-
	From A+ to A-	20%	-
	From BBB+ to BBB-	50%	-
	From BB+ to B-	100%	-

Classification of claims	Rating SBV	Risk weight	Value of asset with risk (31/12/2021)
sector entities or local governments	Under B- or not rated	150%	-
Claims on foreign financial institutions (including foreign credit institutions) and foreign branch banks in Vietnam	From AAA to AA-	20%	3,673,849
	From A+ to BBB-	50%	2,906,705
	From BB+ to B-	100%	1,859
	Under B- or not rated	150%	-
Claims on domestic credit institutions with an initial term of less than 3 months	From AAA to AA-	10%	52,629
	From A+ to BBB-	20%	-
	From BB+ to BB-	40%	45,334
	B+ to B-	50%	5,510
	Under B- or not rated	70%	140,018
Claims on domestic credit institutions with an initial term of over 3 months	From AAA to AA-	20%	-
	A+ to BBB-	50%	434,204
	BB+ to BB-	80%	1,906,220
	B+ to B-	100%	-
	Under B- or not rated	150%	2,098
TOTAL			9,168,426

b. Risk weighted assets by credit risk and counterparty risk

Table 4. Credit Risk Weighted Assets (By Different parties' risk factor)

Unit: Million VND

Items	Amount (31/12/2021)
Credit risk weighted assets	47,272,458
Government Receivable	-
Financial Institution Receivable	9,168,426
Enterprises Receivable	33,395,676
Real Estate Receivable	25,601
Housing Receivable	830,068
Retail Receivable	1,928,373
Bad Debt Receivable	52,489
Other Assets	1,871,825

Table 5. Counterparty Credit Risk Weighted Assets*Unit: Million VND*

Items	Amount (31/12/2021)
Counterparty credit risk weighted assets	122,271
Proprietary trading transactions	-
Repo and reverse repo transactions	-
Derivative product transactions aimed at hedging risks	45,253
Foreign exchange or financial asset trading transactions aimed at serving the demands of customers	77,018

c. Risk weighted assets by sector

Sector-based risk-weighted assets:

Table 6. Credit Risk Weighted Assets (By Industry)*Unit: Million VND*

No.	Items	Amount (31/12/2021)
1	Agriculture, forestry and fisheries	226,799
2	Manufacturing and processing industry	19,101,527
3	Producing and distributing electricity, gas, water, etc.	2,611,133
4	Water supply, waste management and treatment	35,580
5	Construction	2,602,391
6	Wholesale, retail, repair cars and motorcycles	987,512
7	Transportation and warehouse	1,165,182
8	Accommodation and food services	47,742
9	Information and communication	12,317
10	Financial, banking, and insurance operations	12,268,358
11	Real estate	1,328,280
12	Professional activities, science and technology	17,604
13	Administrative activities and supporting services	80,169
14	Education and training	1,246,061
15	Health and social assistance activities	829,464
16	Other services	67,622
17	Individual	2,772,892
18	Non Classification (Other Assets)	1,871,825
	TOTAL	47,272,458

d. Credit risk mitigation

Risk weighted assets (including on-balance and off-balance sheet) are mitigated the credit risk under the risk mitigation methods prescribed in Article 11 of Circular 41:

Table 7. Credit Risk Weighted Assets (Before and After Credit Risk Mitigations)

Unit: Million VND (31/12/2021)

Total credit risk weighted assets (Before CRM)	CRM* measures				Total credit risk weighted assets (After CRM)
	Security Asset	On Balance-sheet Netting	Guarantee	Credit Derivatives	
49,965,843	2,452,794	-	240,591	-	47,272,458

* CRM : Credit risk mitigation

VI. OPERATIONAL RISK

Operational risk refers to the risk arising due to inadequate or failed internal processes, people, system errors, failures, or external events that causes financial losses or non-financial negative impacts on the Bank. Operational risk shall include legal risks; exclude reputational risk and strategic risk.

Wooribank has synchronously implemented operational risk management throughout the system and has brought important values in minimizing the frequency and the impact of operational risk on finance, reputation, and legal obligations of the Bank.

1. Qualitative Content

a. Operational risk management policy

The Bank has issued “*Operational Risk Management Policy*” in order to unify the principles, create a seamless framework for managing operational risk, fully meet the international standards and best practices, as well as the State Bank's internal control system requirements and legal regulations.

➤ Principles of Operational risk management

All products, business activities, business processes, and information technology systems of the Bank must be identified with operational risk; from there, there are solutions to monitor, control, and create tools and methods to measure operational risk. All operational risk must be managed by risk limits within the risk appetite of the Bank. The culture of operational risk management should be established in the whole banking system to prevent risks incidents.

The operational risk management organization structure operates following 3-lines of defense principle, ensuring that the operational risk are managed according to clear

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authority and responsibility; are assessed independently and objectively; are reported fully and accurately to the Members' Council, Risk Management Committee, General Director, Risk Council and Divisions/Departments/Branches of the Bank.

Manage objectively all the operational risk that may arise during the business activities.

Comply with the State Bank's regulations on operational risk management.

➤ **Framework of Operational risk management**

The framework of operational risk management at the Bank prescribes the overall components, including: (i) operational risk governance and organization - the principle, the strategy, objectives and limits of operational risk; (ii) operational risk management documentation; (iii) operational risk management culture and awareness; (iv) procedures for identifying, evaluating, measuring, controlling and reporting operational risk; (v) operational risk management in new products/systems/markets, outsourcing and technology application; and (vi) operational risk management system.

➤ **Content of Operational risk management Policy**

The operational risk management policy at the Bank specifies the following contents:

- Strategy for operational risk management;
- Limits on operational risk, including financial loss limit (sorted by 7 operational risk events and 6 business groups according to Circular 13/2018 /TT-NHNN) and non-financial loss limit (including reputation, service errors, labor and arising legal obligations);
- Organizational model of operational risk management: the structure of 3-lines of defense, roles and responsibilities of risk management of the Risk Management Division, the managers of the Divisions, the staffs in charge of managing operational risk and the role of each division/department at the Bank;
- The operational risk management process: identifying, measuring, and evaluating operational risk by applying the operational risk management tools;
- Managing operational risk for new products, new markets, outsourcing activities, and managing operational risks in technology application;
- Handling of operational risk, including methods: Avoidance of risk, reduction of risk, acceptance of risk or transfer of risk;
- Reporting and managing operational risk data.



b. Business continuity plan

The Bank establishes and periodically runs and revises (if any) the Business continuity plan in accordance with the operational risk management strategy. The Business continuity plan has to meet at least the following requirements:

- There are available plan, method, and resource to maintain the ability of business continuity, to mitigate the damage in the scenario of interruption/stop events in business;
- The established plan is consistent with the qualifications, scale of the Bank;
- There are backup systems for human resources, information technology system and database;
- Be able to restore disrupted business activities back to the normal state within the requested time limit;
- Be reviewed and tested annually in order to determine the effectiveness of the plan to sustain operations and make adjustments if necessary.

2. Quantitative Content

Regulatory capital for operational risk according to Circular 41/2016/TT-NHNN is calculated according to the Basic Indicator method.

Business index (BI) includes 3 components taken from the Bank's income statement, including: IC (absolute value of interest Incomes and similar incomes minus Interest Expenses and other similar accounts), SC (Total value of service Incomes, service Expenses, other operating Incomes, other operating Expenses), FC (Sum of absolute value Net gain / loss from foreign exchange trading, trading securities, and investment securities).

The business index and the components of the business index, the regulatory capital for operational risk are shown in the table below:

Table 8. Regulatory Capital for Operational Risk

Unit: Million VND (31/12/2021)

Period (the lastest 12 quarters at time calculated Regulatory capital for operational risk)	IC	SC	FC	BI (=IC+SC+FC)
The first 4 quarters (BI ₁)	1,127,591	240,099	261,340	1,629,030
The next 4 quarters (BI ₂)	967,791	310,691	161,441	1,439,923

Period (the latest 12 quarters at time calculated Regulatory capital for operational risk)	IC	SC	FC	BI (=IC+SC+FC)
The latest 4 quarters (BI ₃)	724,460	106,095	128,093	958,648
Regulatory capital for operational risk $\{(BI_1+ BI_2+ BI_3)/3 \times 15\%\}$				201,380

VII. MARKET RISK

1. Qualitative Content

a. Market risk management policy

The Market Risk Management Policy in the Bank is in line with the Bank's objectives, business strategy, risk appetite and State Bank regulations, where by:

- Organizational model of market risk management is implemented according to the model of three independent tiers of protection: The first tier of protection has the function of identifying, controlling and minimizing risks; The second tier of protection has the function of establishing risk management policies, internal regulations on risk management, risk measurement and monitoring; The third tier of protection has an internal audit function performed by the Internal Audit Department.
- Regulations on classification of trading books and banking books follows the principle: Items in trading books are only allowed to be reclassified and converted to banking books when they no longer meet the criteria for recording in the trading books; banking book entries are not allowed to be reclassified and converted to trading book; transferring status from the trading book to banking books of items must be approved.
- The Bank conducts identifying, measuring, monitoring, mitigating, tracking and reporting the Market risk.
- Principle of setting market risk limit: The limit of market risk will be proposed by the Risk Management Division, submitted to the Risk Council for review and approved by the General Director. The market risk limit is reviewed and re-evaluated at least annually or when there is a major change affecting the market risk exposure of the Bank.

b. The bank's proprietary trading strategy

As of 31st Dec 2021, the Bank has no strategy of proprietary trading and transaction of proprietary trading. All foreign exchange transactions and derivatives transactions are aimed at meeting the liquidity, serving the demands of customers, partners and the purpose of corresponding to these ones.

c. Portfolio of trading books

The Bank's trading book consists of following:

- Foreign exchange transactions: to facilitate the demand of customers and counterparties, together with their corresponding back to back transactions.
- Derivatives transactions: to facilitate the demand of customers and counterparties, together with their corresponding back to back transactions.

2. Quantitative Content

Table 9. Regulatory Capital for Market Risk

Unit: Million VND (31/12/2021)

Type of market risk	Regulatory capital for market risk	Market risk weighted assets
Interest rate risk	3,892	48,650
Equity risk	-	-
Foreign exchange rate	-	-
Commodities rate	-	-
Option trading risk	-	-
Total	3,892	48,650

As of 31st Dec 2021, capital for market risk of the Bank only combines of the interest rate risk.

The Bank's total net foreign exchange position per its own capital as of 31st Dec 2021 is **0.18%**, which is less than 2%. Therefore, the Bank's regulatory capital for foreign exchange risk as of 31st Dec 2021 is zero.

Regulatory capital for the stock price risk, regulatory capital for the product price, regulatory capital for option trading as of 31st Dec 2021 is zero for the reason that those activities are not in the portfolio of the Bank.

We hereby confirm that the information provided herein is accurate and take all legal responsibilities regard to contents of the public disclosure.

Hanoi, 21st June 2022

Wooribank Vietnam Limited



Lee Jong In
General Director