

RISK MANAGEMENT IMPLEMENTATION REPORT
FOR INTEREST RATE RISK IN THE BANKING BOOK

Bank Name : PT Bank QNB Indonesia Tbk (individual)

Reporting Period : December 2022

Qualitative Analysis	
1.	<p>Explanation of how Bank defines IRRBB for risk measurement and control</p> <p>IRRBB refers to the risk to the bank's capital and earnings arising from adverse movements in interest rates in the market. Bank QNB Indonesia (QNBI) categorizes IRRBB into three sub risk types:</p> <p>a) Gap Risk Risk arising from the difference (gap) in contractual maturity and/or repricing maturity between assets and liabilities (including off-balance sheet items) in the banking book.</p> <p>b) Basis Risk Risk arising the difference between interest rate basis used to price assets and liabilities.</p> <p>c) Option Risk Risk arising from optional elements embedded in assets, liabilities and/or off-balance sheet items, where customers can alter the level and timing of the cash flows.</p>
2.	<p>Explanation of risk management and risk mitigation strategies for IRRBB</p> <p>In carrying out risk management and risk mitigation for IRRBB, QNBI takes the following approaches:</p> <p>a) Gap Risk Management QNBI actively maintains the maturity gap and composition of interest rates charged on assets and liabilities in the banking book. If interest rates are projected to rise, QNBI increases the composition of assets with floating interest rates and funding with fixed interest rates, <i>vice versa</i>. If interest rates are projected to fall, QNBI increases the composition of assets with</p>

	<p>fixed interest rates and funding with floating interest rates.</p> <p>b) Basis Risk Management</p> <p>QNBI mostly uses benchmark interest rates such as JIBOR and LIBOR to price large-scale corporate loans. However, funding for such loans are not priced based on the benchmarks, and therefore exposed to basis risk. To mitigate the basis risk, QNBI regularly evaluates funding interest rates to keep it in line with recent market developments.</p> <p>c) Option Risk Management</p> <p>QNBI mitigates option risk by applying penalty for early redemption of fixed-rate time deposits. An early withdrawal results in a significant penalty that deducts certain portion of the principal amount.</p>
3.	<p>Periodization of Bank IRRBB calculation and explanation of specific methods used by the bank to measure the sensitivity to IRRBB</p> <p>QNBI performs monthly IRRBB calculations as a part of internal monitoring. In addition, QNBI also performs quarterly IRRBB calculations in accordance with OJK Circular Letter No.12/SEOJK.03/2018 regarding Guidelines on the Standardized Approach for Measuring Interest Rate Risk in Banking Book for Commercial Banks.</p>
4.	<p>Explanation of the interest rate shock and stress scenarios used by the Bank for IRRBB calculation using EVE and NII methods</p> <p>QNB uses 6 (six) standardized interest rate shock scenarios EVE calculation and 2 (two) parallel shock scenarios for NII calculation in accordance with OJK Circular Letter No. 12/SEOJK.03/2018.</p>
5.	<p>Explanation of modelling assumptions used in the Bank's Internal Measurement System (IMS) that are different from modelling assumptions used in IRRBB calculation with a standardized approach</p> <p>QNBI uses standardized modelling assumptions according to OJK Circular Letter No. 12/SEOJK.03/2018. QNBI does not have any assumptions other than those stated in the regulation.</p>

6.	<p>Explanation of how Bank hedges IRRBB, including its accounting treatment</p> <p>QNBI performs natural hedging by maintaining the maturity gap of assets, liabilities, and off-balance sheet items in the banking book; interest rate levels; and types of interest rates charged on assets and liabilities in the banking book.</p>
7.	<p>Comprehensive explanation of primary modelling and parametric assumptions used in calculating ΔEVE and ΔNII</p> <p>a) In calculating ΔEVE, the commercial margins and other spread components have already been included in the calculation of principal and interest of assets and liabilities. Because they are already being part of the cash flow, commercial margins and spread components are no longer added to the discount rate.</p> <p>b) QNBI performs behavioural analysis using normal distribution method to estimate the timing of withdrawal from non-maturity deposit (NMD) according to each product type (current accounts, savings accounts, etc.) Each type of NMD will be slotted into a time bucket according to the estimated withdrawal timing.</p> <p>c) QNBI does not estimate loan prepayment rate, time deposit early withdrawal rate, or automatic interest rate option embedded in corporate customers. Early repayments or withdrawals made by customers with fixed interest rates are charged with significant penalty and therefore can be classified as assets or liabilities Amenable to Standardization.</p> <p>d) At the moment, QNBI does not have methodology to aggregate and measure correlation between interest rates of significant currencies.</p>
8.	<p>Other information</p> <p>The ΔEVE calculation as of December 2022 is 3.28% of Tier I capital, below QNBI's internal limit of 10%. According to market risk assessment result, the QNBI's ΔEVE exposure is categorized as low risk. The ΔEVE to Tier I capital ratio has increased by 0.35% from the figure of the previous period that was recorded at 2.93%. The largest exposure comes from "parallel up" shock scenario, valued at IDR -132,955 million. This figure is higher in comparison to the same scenario in the previous period, with value amounting IDR -88,298 million. The increase</p>

	<p>in ΔEVE is mainly influenced by repricing of Floating Rate Loans amounting IDR 1.80 trillion from Overnight bucket to Overnight – 1 month bucket, and the decrease of Fixed Rate Loans amounting IDR 686.02 billion in 1.5-2 years bucket, mostly due to significant loan write-off amounting IDR 523 billion in November 2022 and partial repayment of loan principal amounting IDR 75 billion.</p>
Quantitative Analysis	
<p>1.</p>	<p>Average repricing maturity period for NMDs</p> <p>The average repricing maturity period for NMDs as of December 2022 is 23.24 days for IDR currency and 38.53 days for USD currency.</p>
<p>2.</p>	<p>The longest repricing maturity period for NMDs</p> <p>The longest repricing maturity period for NMDs as of December 2022 is 2 years.</p>

IRRBB CALCULATION REPORT

Bank Name : PT Bank QNB Indonesia Tbk (individual)

Reporting Period : December 2022

Currencies : Rupiah (IDR), United States Dollar (USD)

In IDR Millions	Δ EVE		Δ NII	
Period	T	T-1	T	T-1
Parallel up	-132,955	-88,298	6,691	13,957
Parallel down	-1,490	-1,202	-20,794	-18,069
Steeper	-11,287	-2,953		
Flattener	-25,791	-31,380		
Short rate up	-91,024	-69,602		
Short rate down	-2,051	-2,990		
Maximum Negative Value (Absolute)	132,955	88,298	20,794	18,069
Tier I Capital (for Δ EVE) or Projected Income (for Δ NII)	4,056,257	3,015,656	392,182	385,234
Maximum Value divided by Tier I Capital (for Δ EVE) or Projected Income (for Δ NII)	3.28%	2.93%	5.30%	4.69%