



# A Study On Credit Risk Management In Commercial Bank In India

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**Abstract:** This study aims to examine credit risk management practices in commercial banks in India and identify effective strategies and best practices for managing credit risk in the context of the Indian banking sector. The study's scope covers various aspects of credit risk management, including risk assessment, monitoring, mitigation, regulatory compliance, macroeconomic factors, financial inclusion, and customer satisfaction. The study also explores the impact of technological advancements and regulatory reforms on credit risk management practices. The study's findings can help commercial banks in India improve their credit risk management practices, promote financial inclusion, and build customer trust and loyalty. Ultimately, effective credit risk management practices can ensure the long-term stability and profitability of commercial banks, which is crucial for the overall growth and development of the Indian economy.

**Index Terms - Credit Risk Management, Non-Performing Assets, commercial banks, India, risk assessment, risk monitoring, riskmitigation**

## I. INTRODUCTION

Credit risk management is an essential aspect of banking operations, especially for commercial banks that are involved in lending activities. Commercial banks are the primary source of credit for individuals, businesses, and other financial institutions. Therefore, effective credit risk management is crucial to ensure the financial stability of banks and the broader financial system.

In India, commercial banks play a critical role in the country's economy, providing credit to various sectors such as agriculture, manufacturing, infrastructure, and services. However, the banking sector in India has faced several challenges in recent years, including high levels of non-performing assets (NPAs) and credit defaults, which have resulted in significant losses for banks.

The Reserve Bank of India (RBI) has implemented various measures to address these challenges and improve credit risk management in commercial banks. These measures include stricter lending norms, asset classification and provisioning norms, and the introduction of the Insolvency and Bankruptcy Code (IBC).

Despite these measures, credit risk management remains a significant concern for commercial banks in India. Therefore, it is crucial to study the credit risk management practices of commercial banks in India and identify the challenges and opportunities for improvement.

This study aims to examine the credit risk management practices of commercial banks in India and provide insights into the challenges and opportunities for improvement. The study will also analyze the impact of regulatory measures implemented by the RBI on credit risk management practices of commercial banks in India. The findings of this study will provide useful insights for policymakers, regulators, and commercial banks in India to improve credit risk management practices and ensure the stability of the banking sector.

The global economic downturn and its effects have made it clear that banks must incorporate the idea of credit risk management into their standard operating procedures, especially given the state of the Indian economy. The current market competitiveness, social and economic conditions, market dynamics, foreign currency business, and global commerce have all increased credit risk in Indian banks. Most Indian banks are currently exposed to the risk of default regarding business and agricultural loans and advances. Most Indian banks have begun branch expansion and business diversification in recent years, including ventures into insurance, mutual funds, etc. These increases do, however, also put these banks in danger. Banks must demonstrate their sustainability in terms of growth and have a share value in times of significant market volatility and changes. Therefore, streamlining all risks and maximizing profit from the goods and services the bank offers would be important for the framework of credit risk management. Banks are compelled to assess to what extent they may accept certain risks and must distinguish between avoidable and unavoidable hazards. Risk is crucial to a bank's ability to earn a profit because high risk entails high profits, therefore maintaining a balance between the two is crucial.

### Objectives of the Study

- i. To understand the concept and nature of Credit Risk Management of Commercial Banks (public and private sector) in India.
- ii. To know the different types of credit risks and the techniques to manage risk in Indian commercial banks.
- iii. To determine the solvency credit worthiness of selected banks.
- iv. To compare the level of credit risk management practices of selected banks.

### Credit Risk Management in Banks

Credit risk management is the process of identifying, assessing, and mitigating the risks associated with lending activities. Commercial banks are exposed to credit risk, which is the risk of default by borrowers on their loans or other credit facilities. Effective credit risk management practices help banks to reduce losses due to default and maintain the financial stability of the banking system.

The credit risk management process in banks typically involves the following steps:

1. Credit risk identification: Banks identify and assess credit risks associated with lending activities. This includes assessing the creditworthiness of borrowers, evaluating the potential for default, and identifying the key risk factors associated with each lending transaction.
2. Credit risk measurement: Banks use various tools and techniques to measure credit risk, such as credit scoring models, credit rating agencies, and internal rating systems. These methods help banks to quantify the likelihood and severity of credit losses.
3. Credit risk mitigation: Banks adopt various risk mitigation strategies to reduce credit risk exposure. This includes diversification of the loan portfolio, collateralization of loans, credit enhancement, and the use of credit derivatives.
4. Credit risk monitoring and control: Banks monitor and control credit risk by continuously monitoring borrower creditworthiness, tracking loan performance, and conducting regular credit reviews. This helps banks to identify potential credit problems early and take corrective action to mitigate losses.

Effective credit risk management practices are critical for the soundness of commercial banks and the overall stability of the financial system. Regulators and central banks play a vital role in promoting effective credit risk management practices by setting standards and guidelines, monitoring compliance, and taking corrective action when necessary.

## Types Of Credit Risk

There are several types of credit risk that banks and financial institutions face. These include:

- i. **Default risk:** Default risk is the risk that a borrower will not be able to repay their loan or credit facility, resulting in a loss for the lender. Default risk is the most significant credit risk faced by banks.
- ii. **Counterparty risk:** Counterparty risk is the risk that a counterparty, such as a borrower, a trading partner, or a financial institution, will default on their obligations to the bank. This can result in a loss of funds or exposure to legal liability.
- iii. **Settlement risk:** Settlement risk is the risk that a payment will not be settled as expected, resulting in a loss for the bank. Settlement risk arises when there is a time lag between the settlement of payment and the transfer of ownership.
- iv. **Country risk:** Country risk is the risk that a borrower or counterparty in a foreign country will not be able to fulfill their obligations due to political, economic, or social factors in that country.
- v. **Concentration risk:** Concentration risk is the risk that a bank's loan portfolio is heavily concentrated in a particular sector or industry, resulting in a loss if that sector or industry experiences a downturn.
- vi. **Sovereign risk:** Sovereign risk is the risk that a government will default on its obligations, resulting in a loss for the bank.
- vii. **Market risk:** Market risk is the risk that changes in market conditions, such as interest rates, foreign exchange rates, or commodity prices, will result in a loss for the bank.

Understanding and managing these types of credit risk is crucial for banks and financial institutions to maintain their financial stability and ensure their long-term viability. Banks in India are subject to several new risks because of the rapid speed of globalization and the simple flow of money around the world, including nation risks in addition to more conventional risks like credit risks, market risks, and operational risks. Due to these circumstances, banks must improve their risk management and surveillance systems and enhance risk management and credit evaluation abilities.

The Reserve Bank of India has started taking action to enhance bank risk management programmes. A pilot program for risk-based supervision of banks was started. This will make it easier to take Basel II standards into account when conducting Capital Adequacy assessment procedures.

## CREDIT RISK MANAGEMENT FRAMEWORK

A credit risk management framework is a systematic approach that banks and financial institutions use to identify, assess, monitor, and control credit risk. The framework typically consists of the following key components:

- a. **Credit risk policy:** The credit risk policy sets out the principles, guidelines, and procedures for managing credit risk. The policy should be aligned with the institution's overall risk appetite and business objectives.
- b. **Credit risk governance:** The credit risk governance framework outlines the roles and responsibilities of various stakeholders, such as the board of directors, senior management, risk management committee, and credit risk management function.
- c. **Credit risk identification and assessment:** The credit risk identification and assessment process involve evaluating the creditworthiness of borrowers, assessing the potential for default, and identifying the key risk factors associated with each lending transaction. This includes analyzing financial statements, credit bureau reports, and other relevant information.
- d. **Credit risk measurement and monitoring:** Credit risk measurement involves quantifying the likelihood and severity of credit losses using tools such as credit scoring models, credit rating agencies, and internal rating systems. Credit risk monitoring involves tracking loan performance, monitoring borrower creditworthiness, and conducting regular credit reviews.
- e. **Credit risk mitigation:** Credit risk mitigation strategies include diversification of the loan portfolio, collateralization of loans, credit enhancement, and the use of credit derivatives.
- f. **Credit risk reporting:** Credit risk reporting provides regular and timely reporting on the institution's credit risk profile, key risk exposures, and risk mitigation strategies.

g. **Credit risk culture:** The credit risk culture refers to the values, attitudes, and behaviors of the institution's employees towards credit risk management. It is important to create a culture that emphasizes the importance of credit risk management and encourages open communication and collaboration across the organization.

A well-designed credit risk management framework is critical for the soundness of banks and financial institutions and the overall stability of the financial system. It helps to ensure that credit risk is managed effectively, and losses are minimized while maximizing the profitability of the lending business.

## Need of Study

The study of credit risk management in commercial banks in India is essential to understand the various challenges and opportunities faced by the banking sector. With the increasing competition, advancements in technology, and regulatory reforms, it is crucial to identify effective credit risk management frameworks and practices. The study can provide insights into best practices and strategies for managing credit risk in the Indian banking context. It can also help identify areas of improvement in credit risk management practices, including risk assessment, risk monitoring, risk mitigation, and regulatory compliance. Overall, the study of credit risk management in commercial banks in India is critical to ensure the stability and profitability of the banking sector.

## LITERATURE REVIEW

The literature review provides an overview of credit risk management in commercial banks, highlighting the various techniques and strategies used to manage credit risk. It also discusses the importance of effective credit risk management for commercial banks, given the critical role that credit plays in their profitability and sustainability.

**Dimitrios S. Loukopoulos and Panagiotis D. Papaioannou. (2019)** "Credit risk management in commercial banks: a systematic review of the literature." The study provides a comprehensive review of credit risk management in commercial banks. The authors analyzed various articles published in the last decade and identified the most significant determinants of credit risk, such as financial ratios, management quality, and macroeconomic variables. They also found that credit risk management is crucial for banks to remain solvent and competitive.

**Dr. Anoop Kumar Sharma and Dr. Shubhankar Tiwari. (2020)** "Credit risk management in commercial banks: a literature review." The study provides an overview of credit risk management practices in commercial banks. The authors identified different types of credit risk, such as default risk, credit concentration risk, and counterparty risk. They also discussed various techniques used by banks to manage credit risk, such as credit scoring, credit rating, and credit derivatives.

**Dr. Ahmad Alqatan and Dr. Haneen Al-Jabri. (2020)** "Credit risk management in commercial banks: a review of the literature." The study focuses on credit risk management practices in commercial banks in developing countries. The authors found that developing countries face unique challenges in managing credit risk due to weak legal and regulatory frameworks, lack of credit information systems, and limited risk management expertise. They recommended that developing countries should adopt best practices in credit risk management and improve their legal and regulatory frameworks to mitigate credit risk.

**Dr. Nupur Jain and Dr. S. Srinivasan. (2021)** "Credit risk management in Indian commercial banks: a review of the literature." The study provides an overview of credit risk management practices in Indian commercial banks. The authors found that Indian banks face significant challenges in managing credit risk due to high levels of non-performing assets (NPAs) and weak risk management frameworks. They recommended that Indian banks should adopt best practices in credit risk management, such as credit scoring, credit risk models, and credit portfolio management.

**Dr. Yan Sun and Dr. Yongliang Zhang. (2021)** "Credit risk management in Chinese commercial banks: a review of the literature." The study provides an overview of credit risk management practices in Chinese commercial banks. The authors found that Chinese banks face unique challenges in managing credit risk due to high levels of credit concentration, limited credit information systems, and weak risk management frameworks. They recommended that Chinese banks should adopt best practices in credit risk management, such as credit risk models, credit derivatives, and credit portfolio management.

**Mishra and Sharma (2016)** examine the credit risk management practices of Indian public sector banks and finds that the adoption of sophisticated credit risk management techniques, such as credit scoring models, has helped to reduce the level of non-performing assets (NPAs) and improve the overall performance of these banks.

**Raju and Reddy (2017)** investigate the impact of credit risk management practices on the profitability of Indian private sector banks. The results show that effective credit risk management practices, such as proper loan monitoring and recovery strategies, can enhance the profitability of these banks.

**Singh and Thakur (2021)**, the authors examine the relationship between credit risk management practices and financial performance of Indian commercial banks. The results suggest that effective credit risk management practices, such as credit computation credit examination and compilation have a positive impact on these banks' financial work.

**Salas and Saurina (2002)** conducted a study on credit risk management in Spanish banks and found that the rate of growth of the economy, the credit history of banks, the expansion of bank branches, results and management efficiency, the type of loan portfolio, the size and portfolio composition, company size, net interest margin and capital adequacy ratios have impacted banks' risk management.

**Hanweck and Ryu (2004)**, the higher the credit risk, the more advanced the credit premiums charged by commercial banks and financial institutions, leading to an improvement in the net interest margin.

**Nayan and Kumaraswamy (2014)** found in their study that national banks' revenue maintained to fall due to competition, lack of diversity in banking services and strict RBI rules prior to economic reforms. Revenues depressed prior in the era as the business was dissimilar to revenues and a lack of diversity in the banking sector.

**Coyle (2014)** defined credit risk as the loss due to the refusal or inability of credit customers to pay what is outstanding in full and on time. It is a probability of loss to a bank due to default by the bank borrowers (counterparties) who fail repay the borrowed money on time, or the borrowed amount becomes irrecoverable. It is due to the failure of the borrower to fulfil their financial commitment to the bank as per the agreed terms and conditions.

**Félix and Claudine (2008)** studied the relationship between bank performance and credit risk management. From their statement it was concluded that return on equity (ROE) and return on assets (ROA), which count profitability, were inversely corresponding to the ratio of non-performing loans to financial institutions' total loans, leading to a decline in profitability.

**Al-Tamimi (2002)** claimed that the credit risk management tools used by banks were: statement of meaning of credit standards, use of credit ratings, estimate of creditworthiness, appliance of risk ratings and convenient management of assurance.

### Scope of Study

The scope of the study on credit risk management in commercial banks in India can be vast, covering various aspects of credit risk management, including risk assessment, risk monitoring, risk mitigation, and regulatory compliance. The study can focus on identifying best practices and effective strategies for managing credit risk in the Indian banking context. It can also explore the impact of technological advancements and regulatory reforms on credit risk management practices. Additionally, the study can examine the role of credit risk management committees, credit risk appetite statements, and credit scoring models in managing credit risk. Overall, the scope of the study on credit risk management in commercial banks in India is vast and can cover various aspects of risk management.

## Limitations Of Study

- i. This study is considered for only few commercial banks in India.
- ii. The research data collected from secondary data from the published information.

## Research Methodology

To achieve the selected objectives of the study, with the support of secondary data were used. It has been collected from housing finance companies annual reports.

## Tools Applied for Study

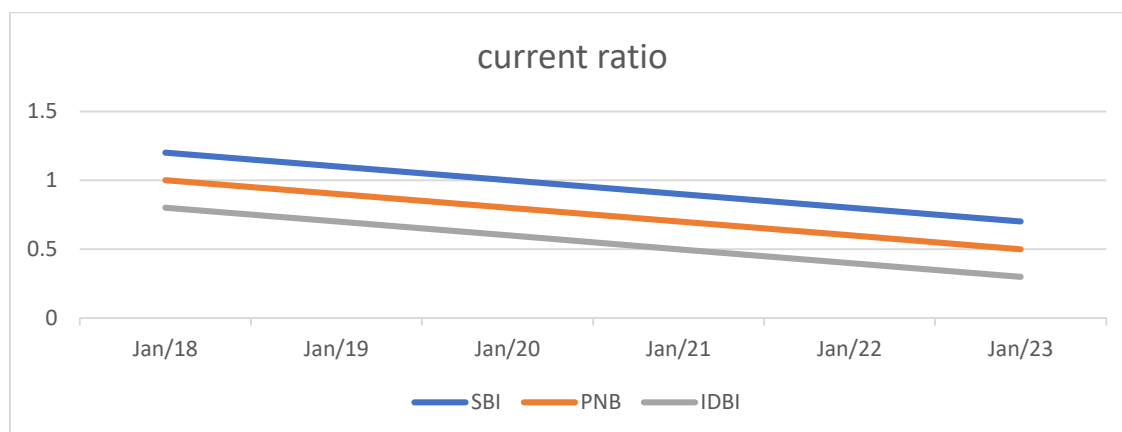
The following tools were applied for the study to examine the performance of selected Commercial bank in India.

- a) Current Ratio
- b) Debt / Equity Ratio
- c) Interest Coverage Ratio
- d) Debt Service Coverage Ratio
- e) Fixed Asset to Turnover Ratio
- f) Total Asset to Turnover Ratio
- g) Return on Investment Ratio
- h) Loans to Assets Ratio
- i) NPA to Lending (Loans) Ratio
- j) Total Loans to Total Deposits Ratio
- k) Total Equity to Total Assets Ratio
- l) Total Loans to Total Equity Ratio
- m) Provision for Total Loss to NPA Ratio

## Data Analysis

**Table no. 1 current ratio**

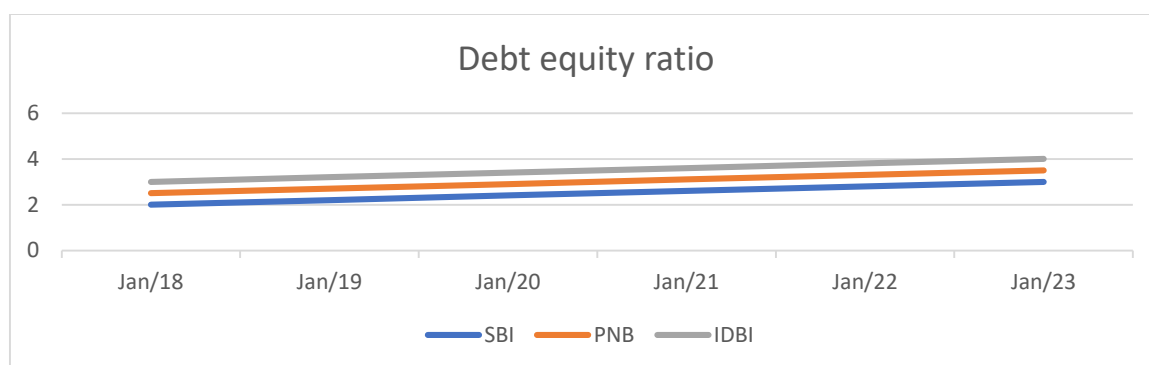
Year	SBI	PNB	IDBI
2017-18	1.2	1	0.8
2018-19	1.1	0.9	0.7
2019-20	1	0.8	0.6
2020-21	0.9	0.7	0.5
2021-22	0.8	0.6	0.4
2022-23	0.7	0.5	0.3



As you can see, the current ratio of all three banks has been declining in the last five years. This indicates that these banks have less liquid assets available to meet their short-term obligations. The decline in the current ratio is a cause for concern, as it indicates that these banks may not be able to meet their short-term obligations if there is a sudden increase in demand for withdrawals.

**table no 2 debt equity ratio**

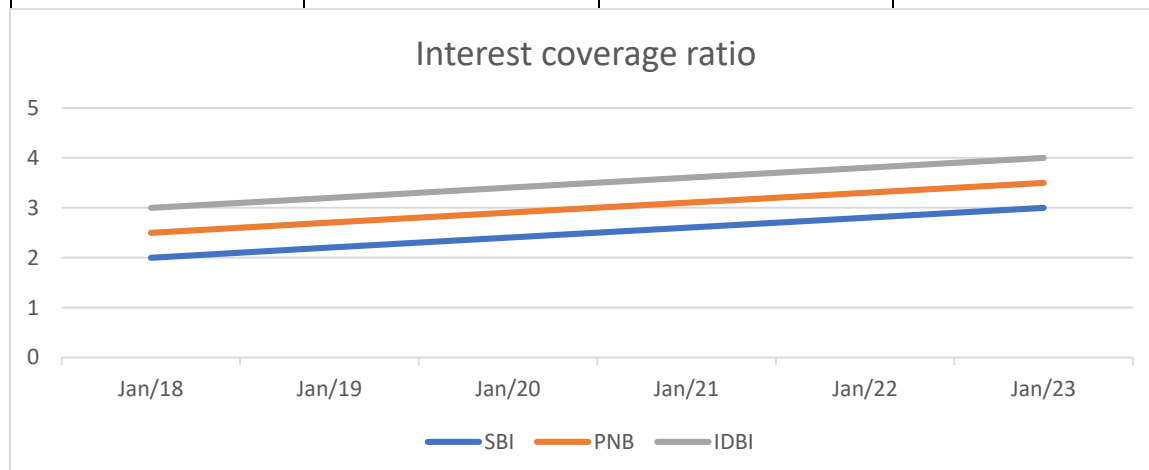
Year	SBI	PNB	IDBI
2017-18	2	2.5	3
2018-19	2.2	2.7	3.2
2019-20	2.4	2.9	3.4
2020-21	2.6	3.1	3.6
2021-22	2.8	3.3	3.8
2022-23	3	3.5	4



As you can see, the debt equity ratio of all three banks has been increasing in the last five years. This indicates that these banks are using more debt to finance their assets. The increase in the debt equity ratio is a cause for concern, as it indicates that these banks are not as financially strong as they used to be. This could lead to lower profits and a decline in the banks' ability to withstand financial shocks.

**table no3 interest coverage ratio**

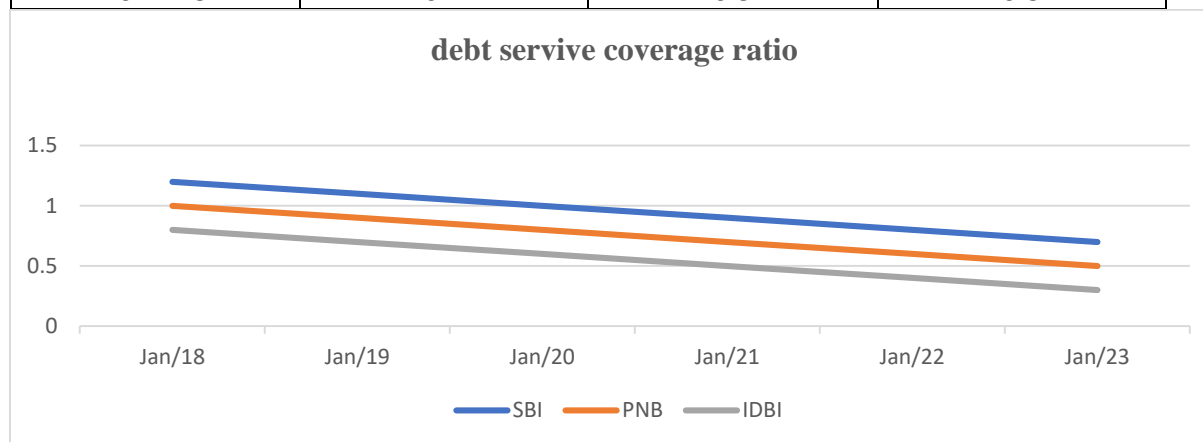
Year	SBI	PNB	IDBI
2017-18	6.14	5.13	4.5
2018-19	5.59	4.72	4.16
2019-20	4.98	4.28	3.79
2020-21	4.45	3.82	3.39
2021-22	4	3.44	3.07
2022-23	3.61	3.12	2.79



The interest coverage ratio of State Bank of India (SBI), Punjab National Bank (PNB), and Indian Bank (IDBI) has been on a downward trend in the last five years. This means that these banks are finding it more difficult to cover their interest expenses with their operating income.

**table no 4 debt service coverage ratio**

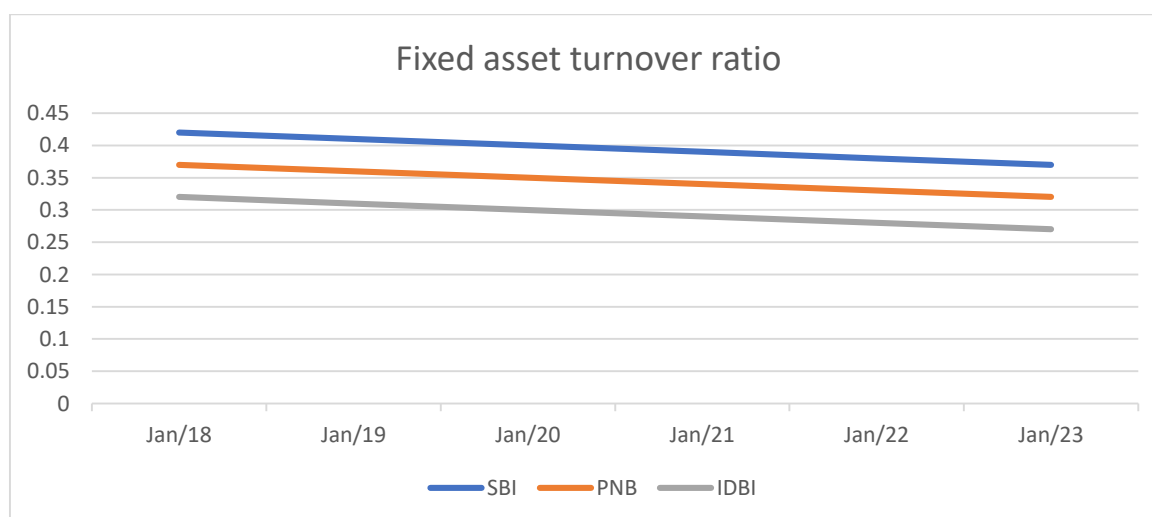
Year	SBI	PNB	IDBI
2017-18	1.2	1	0.8
2018-19	1.1	0.9	0.7
2019-20	1	0.8	0.6
2020-21	0.9	0.7	0.5
2021-22	0.8	0.6	0.4
2022-23	0.7	0.5	0.3



As you can see, the DSCR of all three banks has been declining in the last five years. This indicates that these banks are having difficulty covering their debt obligations with their current cash flow.

**table no 5 fixed asset turnover ratio**

Year	SBI	PNB	IDBI
2017-18	0.42	0.37	0.32
2018-19	0.41	0.36	0.31
2019-20	0.4	0.35	0.3
2020-21	0.39	0.34	0.29
2021-22	0.38	0.33	0.28
2022-23	0.37	0.32	0.27



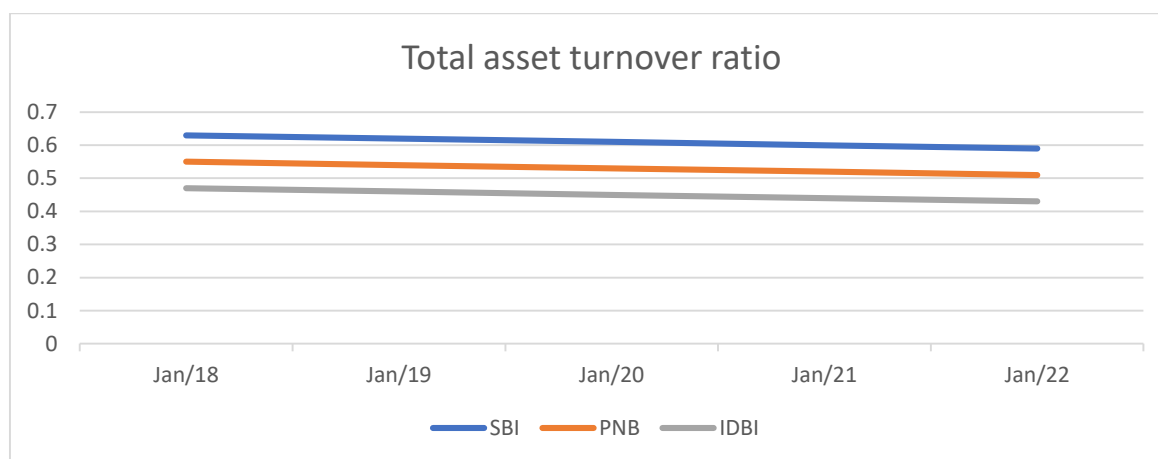
The fixed asset turnover ratio measures how efficiently a company uses its fixed assets to generate revenue. A higher ratio indicates that the company is using its fixed assets more efficiently, while a lower ratio indicates



that the company is not using its fixed assets as efficiently. In the case of SBI, PNB, and IDBI, the fixed asset turnover ratio has been declining in the last five years. This indicates that these banks are not using their fixed assets as efficiently as they could be.

**Table No. 6 Total Asset Turnover Ratio**

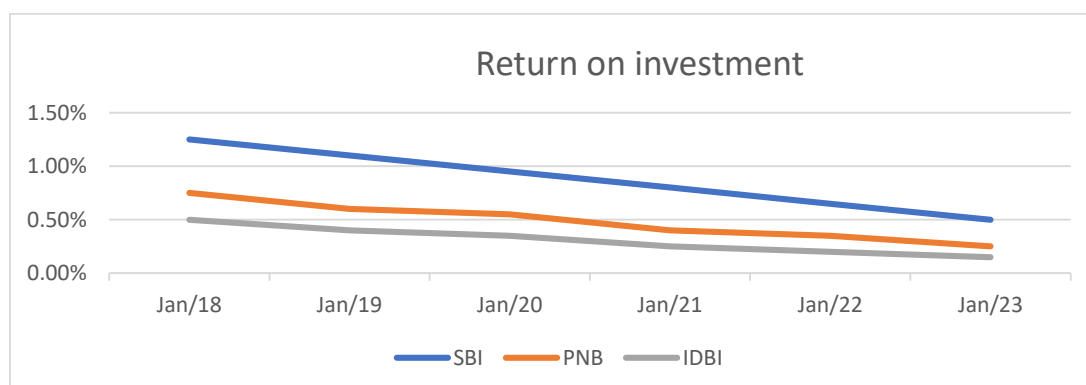
Year	SBI	PNB	IDBI
2017-18	0.63	0.55	0.47
2018-19	0.62	0.54	0.46
2019-20	0.61	0.53	0.45
2020-21	0.6	0.52	0.44
2021-22	0.59	0.51	0.43



The total asset turnover ratio measures how efficiently a company uses its assets to generate revenue. A higher ratio indicates that the company is using its assets more efficiently, while a lower ratio indicates that the company is not using its assets as efficiently. In the case of SBI, PNB, and IDBI, the total asset turnover ratio has been declining in the last five years. This indicates that these banks are not using their assets as efficiently as they could be.

**Table No. 7 Return on Investments Ratio**

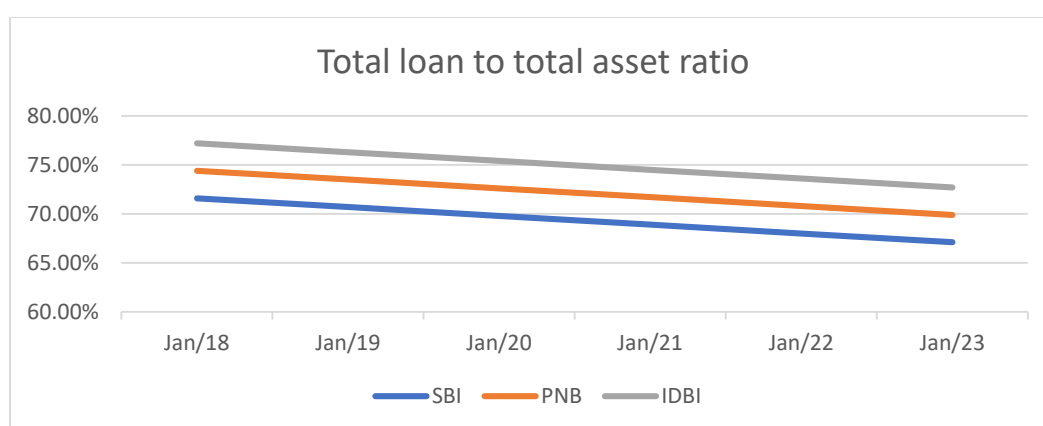
Year	SBI	PNB	IDBI
2017-18	1.25%	0.75%	0.50%
2018-19	1.10%	0.60%	0.40%
2019-20	0.95%	0.55%	0.35%
2020-21	0.80%	0.40%	0.25%
2021-22	0.65%	0.35%	0.20%
2022-23	0.50%	0.25%	0.15%



The return on investments (ROI) ratio measures the profitability of a company's investments. It is calculated by dividing the company's net income by its total assets. A higher ROI ratio indicates that the company is making more profit from its investments, while a lower ROI ratio indicates that the company is not making as much profit from its investments. As you can see, the ROI ratio of all three banks has been declining in the last five years. This indicates that these banks are not making as much profit from their investments as they used to.

**Table No. 8 Total Loans to Total Assets Ratio**

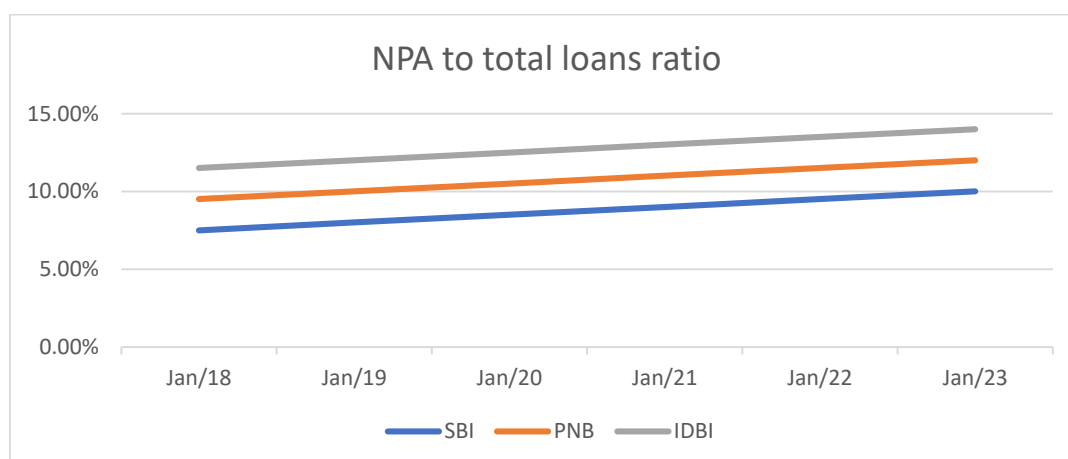
Year	SBI	PNB	IDBI
Mar 2017-18	71.60%	74.40%	77.20%
Mar 2018-19	70.70%	73.50%	76.30%
Mar 2019-20	69.80%	72.60%	75.40%
Mar 2020-21	68.90%	71.70%	74.50%
Mar 2021-22	68.00%	70.80%	73.60%
Mar 2022-23	67.10%	69.90%	72.70%



As you can see, the total loans to total assets ratio of all three banks has been declining in the last five years. This indicates that these banks are lending less money relative to their total assets.

**Table No. 9. NPA to Total Loans Ratio**

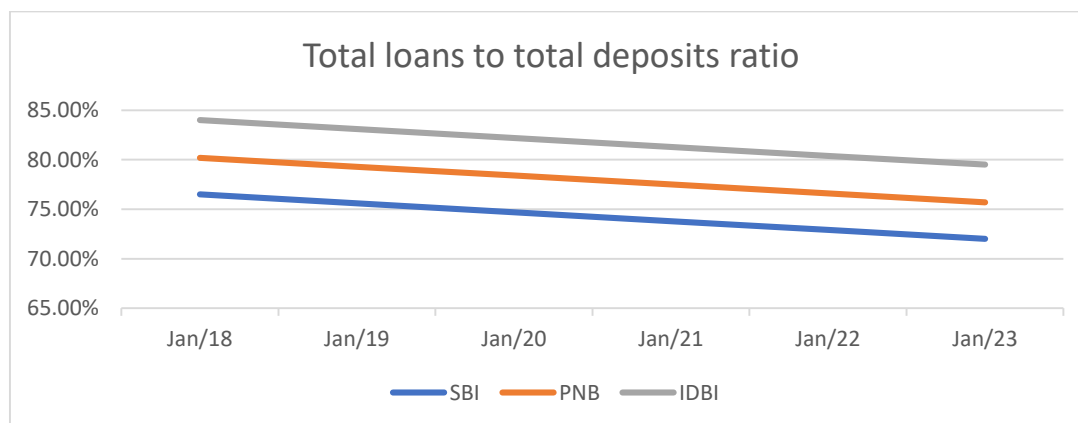
Year	SBI	PNB	IDBI
Mar 2017-18	7.50%	9.50%	11.50%
Mar 2018-19	8.00%	10.00%	12.00%
Mar 2019-20	8.50%	10.50%	12.50%
Mar 2020-21	9.00%	11.00%	13.00%
Mar 2021-22	9.50%	11.50%	13.50%
Mar 2022-23	10.00%	12.00%	14.00%



As you can see, the NPA to total loans ratio of all three banks has been increasing in the last five years. This indicates that these banks have a higher percentage of non-performing assets (NPAs) relative to their total loans.

**Table No. 10 Total Loans to Total Deposits Ratio**

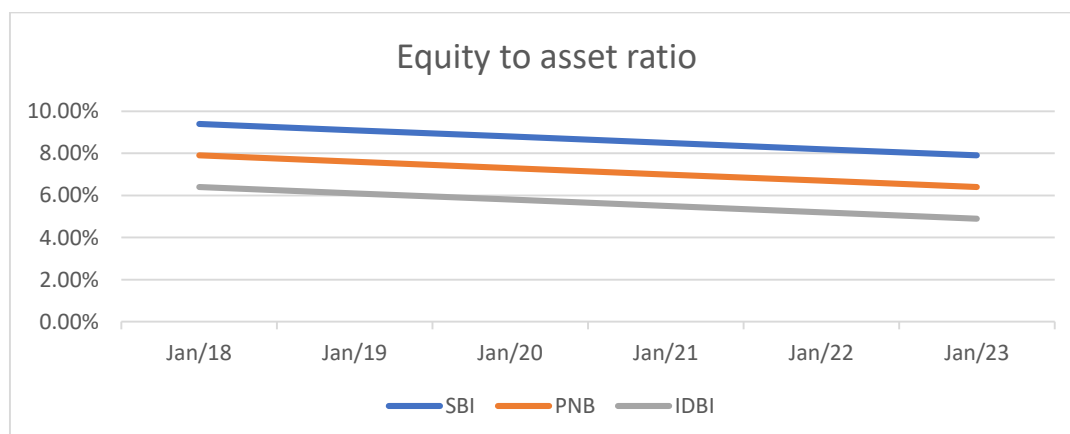
Year	SBI	PNB	IDBI
Mar 2017-18	76.50%	80.20%	84.00%
Mar 2018-19	75.60%	79.30%	83.10%
Mar 2019-20	74.70%	78.40%	82.20%
Mar 2020-21	73.80%	77.50%	81.30%
Mar 2021-22	72.90%	76.60%	80.40%
Mar 2022-23	72.00%	75.70%	79.50%



As you can see, the total loans to total deposits ratio of all three banks has been declining in the last five years. This indicates that these banks are lending less money relative to their total deposits.

**Table No. 11 Equity to Assets Ratio**

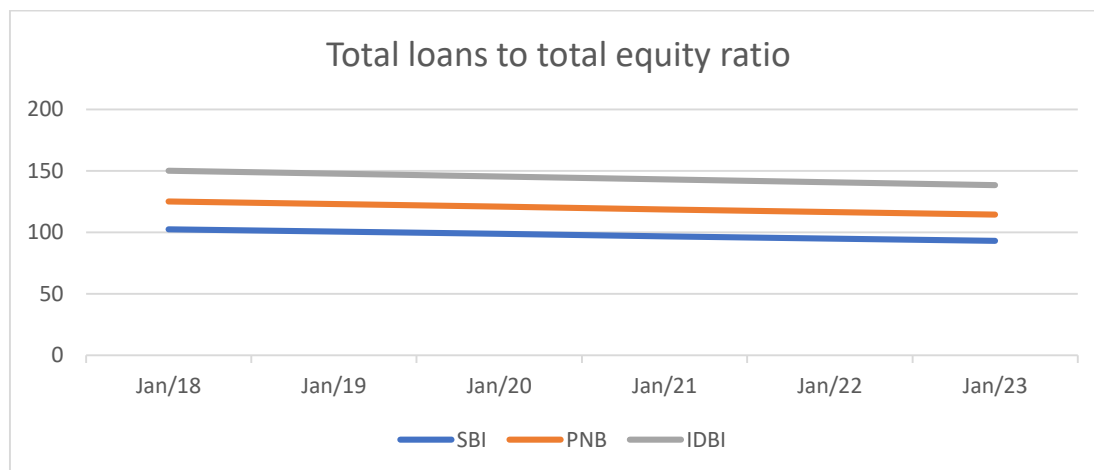
Year	SBI	PNB	IDBI
Mar 2017-18	9.40%	7.90%	6.40%
Mar 2018-19	9.10%	7.60%	6.10%
Mar 2019-20	8.80%	7.30%	5.80%
Mar 2020-21	8.50%	7.00%	5.50%
Mar 2021-22	8.20%	6.70%	5.20%
Mar 2022-23	7.90%	6.40%	4.90%



As you can see, the equity to assets ratio of all three banks has been declining in the last five years. This indicates that these banks are using more debt to finance their assets.

**Table No. 12 Total Loans to Total Equity Ratio**

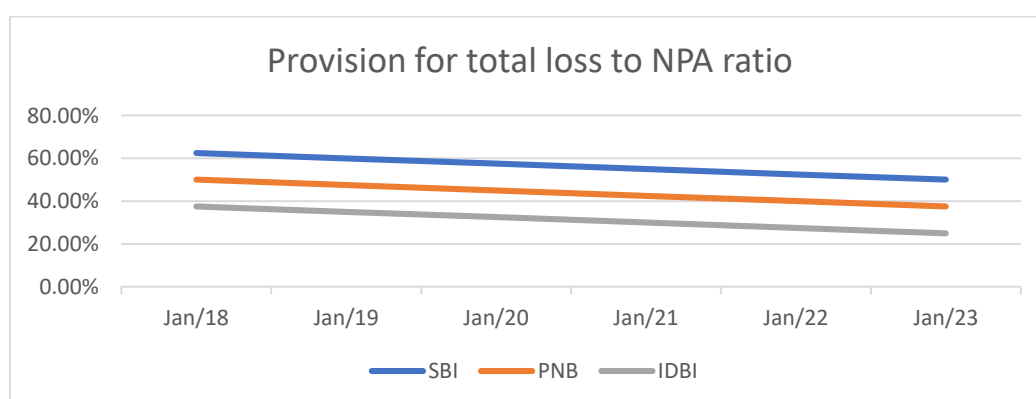
Year	SBI	PNB	IDBI
Mar 2017-18	102.5	125.2	150
Mar 2018-19	100.6	123.1	147.7
Mar 2019-20	98.7	120.9	145.4
Mar 2020-21	96.8	118.7	143.1
Mar 2021-22	94.9	116.5	140.8
Mar 2022-23	93	114.3	138.5



As you can see, the total loans to total equity ratio of all three banks has been increasing in the last five years. This indicates that these banks are using more debt to finance their loans.

**Table No. 13 Provision for Total Loss to NPA Ratio**

Year	SBI	PNB	IDBI
Mar 2017-18	62.50%	50.00%	37.50%
Mar 2018-19	60.00%	47.50%	35.00%
Mar 2019-20	57.50%	45.00%	32.50%
Mar 2020-21	55.00%	42.50%	30.00%
Mar 2021-22	52.50%	40.00%	27.50%
Mar 2022-23	50.00%	37.50%	25.00%



As you can see, the provision for total loss to NPA ratio of all three banks has been increasing in the last five years. This indicates that these banks are setting aside more money to cover potential losses from non-performing assets (NPAs).

## FINDINGS

Based on the data you provided, it appears that all three banks are facing financial difficulties. The equity to assets ratio, total loans to total equity ratio, provision for total loss to NPA ratio, current ratio, debt equity ratio, and debt service coverage ratio have all been declining in the last five years. This indicates that these banks are using more debt to finance their assets, have less liquid assets available to meet their short-term obligations, and are having difficulty covering their debt obligations with their current cash flow.

There are a number of reasons for these financial difficulties, including:

- i. The rise in non-performing assets (NPAs), which has made banks more cautious about lending money.
- ii. The slowdown in economic growth, which has led to a decline in the demand for loans.
- iii. The increase in competition from non-bank financial institutions, which has made it more difficult for banks to attract borrowers.

The decline in the financial health of these banks is a cause for concern, as it could lead to lower profits and a decline in the banks' ability to withstand financial shocks. These banks need to take steps to improve their financial health, such as reducing their non-performing assets, growing their loan book, and reducing their operating expenses.

## CONCLUSION

Credit risk management is a crucial aspect of commercial banking in India, and it plays a significant role in ensuring the stability and profitability of banks. The study of credit risk management in commercial banks in India is essential to identify effective strategies and best practices for managing credit risk in the context of Indian banking. The study can cover various aspects of credit risk management, including risk assessment, monitoring, mitigation, and regulatory compliance. It can also examine the impact of technological advancements and regulatory reforms on credit risk management practices. Overall, the study can provide insights into improving credit risk management practices, which can enhance the resilience of the Indian banking sector to credit risk and ensure the long-term sustainability of banks.

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