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A Study of Loan Defaults and its Impact on Profitability of Banks

Rinki Kuldeep Yadav[1] and Dr. Parizaad Bhesania[2]
Research Scholar[1] and Assistant Professor[2]
The Byramjee Jeejeebhoy College of Commerce, Mumbai, Maharashtra, India

Abstract: *The banking industry is essential to an economy's expansion. The state of this industry is currently worsening, with an increasing amount of non-performing assets (NPAs) in banks becoming a significant worry. Several stories routinely highlight the bank's rising NPA records.*
Numerous studies have been carried out to examine the bank's NPA status, the causes of this rise, the ramifications, and numerous other associated issues and consequences. Bank NPAs are increasing, which is a macroeconomic hindrance to economic progress. All societal classes, all kinds of enterprises, and banks themselves are impacted. This paper provides a quick overview of how banks operate, what non-performing assets (NPA) are, and potential causes of the NPA's recent increasea rise in the price of funding. Other research studies are used to elaborate on each effect. The paper's conclusion provides an overview of the consequences of non-performing assets (NPAs) as well as the actions and strategies banks can take to resolve this issue.

Keywords: Non-Performing Assets(NPA) Banks , Credit , Profitability, and Public sector Bank(PSB)

I. INTRODUCTION

A collection or network of organizations that offer us financial services is called a banking system. These organizations are in charge of managing an exchange, lending money, accepting deposits, and assisting with investments. The Reserve Bank of India (RBI), which serves as the country's central bank, is joined in the banking system by commercial, cooperative, and development banks (also known as development finance institutions).These organizations serve as the hub of India's financial industry by acting as a gathering place for investors and savers. Banks are crucial to the development of developing nations because they facilitate the mobilization of resources and their more effective allocation. The nationalization of the RBI in 1949 and the Imperial Bank of India, which is now known as the State Bank of India, in 1950 marked the beginning of India's banking sector's growth. A bank's two main operations are loaning money and taking deposits.One way to profit from this is to provide deposits at a lower interest rate than you would charge for loans. Commercial banks typically lend large sums of money to a variety of clients at varying rates according to their risk tolerance. Moreover, this raises the possibility of debt defaults. When a borrower doesn't return the loan amount plus interest according to the original agreement, it's called a loan default.

In addition to very high interest rates on any subsequent loans, defaulting on a loan will result in a significant and permanent decline in the debtor's credit score.When a loan secured by collateral defaults, the bank will probably confiscate the pledged asset.

Mortgages, vehicle loans, and secured personal loans are the most common forms of collateral-backed consumer lending. The repercussions of defaulting on unsecured obligations, such as credit card and student loan debt,differ in severity based on the kind of loan. Debt collection companies may, in the worst circumstances, garnish salaries in order to settle unpaid debt. Four categories—debt service default, technical default, sovereign default, and strategic default—are used to group these loan defaults.

Non-Performing Assets (NPA): What Is It?

• Assets or money that banks lend to businesses or individuals; occasionally, borrowers fail to repay these loans. Non-performing assets (NPAs) are loans that are not repaid on time or at all. Another name for them is poor assets.

According to the RBI's definition in India, a loan account can be classified as a non-performing asset if the interest or installment amount is past due for a duration longer than ninety days.

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Causes of the increase of NPAs:

• Early in 2000 and 2008, the Indian economy was experiencing great prosperity. Consequently, banks—particularly those in the public sector—loaned substantial sums of money to businesses. However, the majority of businesses' revenues have decreased as a result of the global economic downturn, prohibitions on mining projects, delays in obtaining permits for environmental protection that impact the steel and power sectors, changes in the price of raw materials, and shortages in supply. The primary cause of the rise in non-performing assets in public sector banks is the companies' inability to make payments on time or at all as a result of this decline in profitability.

• One of the primary causes of the rise in delinquencies is the loosening of credit restrictions, particularly with regard to business executives and their inadequate credit analysis and financial position analysis. Furthermore, due to competition, banks sold a lot of unsecured loans, which was a result of the amount of nonperforming assets.

• The bank did not put in place sufficient emergency plans, particularly with regard to lowering project risk. They failed to account for potential outcomes like the demise of natural gas projects or the inability to acquire land for highways.

The PSBs showed a great deal of leniency to the corporate defaulter. They continued to offer opportunities for credit line modification to businesses withserious issues including inadequate profitability and excessive leverage.

• Unpredictable economic shocks such as COVID-19 and demonetization. ("NPA issue in India: Complete analysis – Civilsdaily" , in 2020)

II. REVIEW OF LITERATURE

Critical analysis has revealed that the majority of non-performing assets (NPAs) originate from a few prominent industrialists.

Generally speaking, the NPA for priority industries like agriculture is less than that of corporate housing. It is believed that the government's policy of exempting agricultural loans in the event of floods, droughts, and other natural catastrophes is the cause of the growth in the burden of non-performing assets (NPAs) for all PSBs. Numerous agencies' surveys have demonstrated that marginalized small business owners and farmers repay their loans on schedule. The SARFAESI Law, passed by the government in 2002, permits banks to purchase mortgaged real estate and structures. They can also recover non-performing debts by selling them at auction.However, there are still issues with banks applying the law (Sikdar, 2020).

According to the RBI's Financial Stability Report (FSR) from December 2020, poor economic stress periods could cause banks' gross nonperforming assets (GNPAs) to rise to 13.5% by September 2021 and subsequently to 14.8%—nearly twice as high as they were in 2019–20—by September 2022. (Mohan & Ele, 2021).

Credit risk is the chance that the bank borrower will not make the needed payments according to the agreed-upon clause, resulting in default and loss of principal and interest for the lender.The ability of the bank to take on new risks and/or raise capital is referred to as profitability. It measures the effectiveness of 4,444 banks' management and reflects their efficiency. The Reserve Bank of India's statistics indicates that in March 2016, the total non-performing asset (NPA) climbed to 7.6 from 5.1 in September 2015 and 4.6 in March 2015. According to the Reserve Bank of India's projection, the overall NPA might reach 8.5% by March 2017. The rise in credit risk is the cause of the growth in delinquencies, which has an impact on bank earnings. Credit risk is the most common risk that banks face among the others, which also include operational, reputational, market, and legal threats.

Considerable risk that banks must manage, and credit is one of their main revenue streams. The biggest bank in India's public sector is the State Bank of India. The goal of the study is to determine whether State Bank of India's exposure to credit risk will have an impact on the bank's profitability over the course of more than 20 years.

(J. Sheeba, 2017)

Examining whether a correlation exists between European credit risk management and commercial banks' profitability is the primary goal of the study. It also seeks to determine if this link is constant or erratic. The study model defines NPLR and CAR as agents for credit risk management, and ROE and ROA as profitability agents. Data from 47 commercial banks in Europe were gathered for the study between 2007 and 2012, and four hypotheses were developed in relation to the research subject.A number of statistical tests were run to see whether the association is real. To determine if the ratio is steady at, additional statistical tests were run. The survey's findings demonstrate that commercial banks' profitability has benefited from credit risk management. CAR has a minor impact on both ROE and

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ROA, whereas NPLR, one of the two proxy variables for credit risk management, has a large impact on both. Nonetheless, all of the agents' ties fluctuated rather than remained steady between 2007 and 2012. Li and Zou (2014)

The purpose of this study is to examine how consumer defaults and commercial bank loans affect the bottom line of commercial banks. The study also demonstrates whether or not there is a meaningful correlation between the volume of deposits and the quantity of advances and loans given to customers. It also demonstrates if loan delinquency is significantly impacted by the cost of capital. Ultimately, the study demonstrates whether loan defaults can be managed with just collateral.

The data collection yielded results indicating a noteworthy correlation between the quantity of deposits and the extent of loan advances granted to clients. Additionally, the cost of capital significantly influences the incidence of loan default. Conclusions must be made in light of the reality that the majority of banks have shut down, primarily as a result of poor money management. Furthermore, the majority of banks ought to set up credit departments as soon as feasible to assist in screening and monitoring clients, which will aid lower the incidence of fraud and money mismanagement.

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Consequently, proof is required to demonstrate that banks must work to choose knowledgeable and trustworthy employees to work in their loan department in order to manage loans in a meaningful and successful manner. (EDWARD, undated)

In India, one of the biggest worries for banks is non-performing assets. The best measure of the state of the industry is NPA. NPAs are an indicator of bank performance. The first signs of credit risk are NPAs. NPAs will always be a burden for the banking sector. Therefore, a bank's ability to succeed hinges on its NPA management strategies. Because they oversee financial activities, public sector banks have outperformed private sector banks in this regard.the banks in the public sector have also performed rather well. However, the only issue facing public sector banks these days is the rising percentage of non-performing assets. The general public sector banks' non-performing assets are steadily rising year. Conversely, with a few exceptions, personal sector banks' nonperforming assets are declining annually. A decrease in non-performing assets (NPAs) typically indicates that banks have improved their credit assessment procedures over time, whereas an increase in NPAs indicates the need for provisions that reduce bank profitability.

Non-performing assets (NPAs) are a major issue for the Indian banking industry. Compared to private sector banks, public sector banks have a comparatively larger NPA. The NPA needs to be decreased and managed in order to improve banks' productivity and profitability.

(SINGH (2013)

When someone doesn't make the initial arrangements to repay a debt, they are said to be in loan shortfall. This indicates that the recipient did not receive his monthly installment payment that was due. When the primary installment is not paid, the time between receiving the installment and receiving the loan default is considered a delinquent. Typically, lenders and the bank would allow a grace amount before penalizing the recipient.Banks have a hugely significant function in the process and growth. The goal of this study is to identify the impact that loan default has on a bank's ability to operate and to highlight the need for action to reduce loan default rates. to assess how a loan deficit affects the bank's profitability and to suggest strategies forreduce the number of loan defaults. The study's data collection is based on secondary statistics from sources like books, journals, the internet, newspapers, and magazines. (Malik, 2021)

It investigates an empirical method for analyzing nonperforming loans (NPLs) from economic banks in the setting of India. The empirical analysis assesses the impact of three main categories of economic and monetary factors, namely lending terms, bank size-induced risk preferences, and political economy shocks, on banks' non-performing loans. The empirical findings from panel regression models suggest that, in the presence of bank size-evoked risk preferences and political economy shocks, terms of credit variables have a considerable impact on the non-performing loans of the banks. Furthermore, different bank size metrics may have varying effects on the non-performing loans held by the bank. Changes in the credit value in terms of the higher rate expectation lead to an increase in non-performing assets (NPAs) in proportion to credit variables. However, other elements that contribute to a decrease in non-performing assets

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(NPAs) include a longer credit maturity period, a stronger credit culture, and advantageous political and economic environments. trade cycle may have varying effects due to lenders' and borrowers' differing reactions. (Dhal & Ranjan, 2021).

The current Covid19 pandemic is having a major influence on India's NBFC's balance sheet, after the banking closure and liquidity crisis. The quantity of stressed assets is a key sign of this, and it keeps rising. For the majority of the country's leading NBFCs, the quantity of these assets rose from October through December. The US $ 350 billion NBFC and the whole Indian economy are negatively impacted by the increase in past-due loans. Should the NBFC's creditworthiness be diminished as a result of the deluge of substandard loans, demand or consumption would deteriorate even more. (Mulye, 2021)

This study is an initial examination of quarterly data on deliberate defaulters that the Credit Information Bureau of India Limited (CIBIL) found between June 2003 and March 2016.

The government-owned banks are the primary source of funding for a considerable number of private, unlisted, restricted enterprises that intentionally default. Some believe that in order to become intentional, borrowers exploit weak administrative frameworks (such as the ineffective operation of national financial, legal, and political entities).defaulters. The idea that incompetent national administration is the primary cause of intentional credit default is supported by this experimental study.

(M & N, 2021)

The best indicator of a nation's banking industry appropriateness is the quantity of non-performing assets (NPA).

The aim of this study is to examine the bank's level of commitment to the non-performing asset (NPA) business by analyzing its growth trajectory from 2010 to 2017. Additionally, the study looked into how different banking associations, particularly the State Bank of India (SBI) and its affiliates, state banks and private banks, affected how these institutions conducted financial operations.

Studies reveal that the growth rate of non-performing assets in private banks is larger than that of SBI and its affiliates. According to the report, the rise in these loans is caused by the inability of state banks, the SBI, and its affiliates to manage delinquent loans in an efficient manner. In 2021, Agarwala and Agarwala

III. RESEARCH METHODOLOGY

This paper includes qualitative interpretation of the major effects of bad loans on banks. Detailed explanation of each effect is given supported by either facts or data available. We have used secondary data through the paper to support our topic. Major sources of our information and data include RBI website, CRISIL website, news articles and other research studies.

IV. DATA ANALYSIS AND INTERPRETATION

India has one of the worst non-performing loan ratios (%) of all emerging nations. While the share in Russia, South Africa, and Turkey has declined, the share in Brazil has climbed recently. The Reserve Bank of India's comprehensive asset quality evaluation from the previous year resulted in an increase in the country's non-performing loan ratio in 2016. Large numbers of failed loan accounts were discovered during the investigation, which significantly increased India's non-performing assets. (2019, Radhakrishnan)

According to Standard & Poor's Global Ratings, Indian banks' stressed assets would continue to hover around 11–12% of total assets in the upcoming fiscal year. The agency projects that this fiscal year's ratio of bad loans to restructured assets would increase to 11.5% from 8.7% last year. (Gopakumar, 2021)

The following are the main repercussions of bad loans on banks:

Decline in Bank Profitability:

A loan turns into a bad debt if the bank is unable to repay it. The bank is still required to reimburse depositors for withdrawal requests. In this scenario, the bank's total benefit will be lowered as a result of the bank having to pay your benefit deposit amount. Because repayment is not always assured and frequently depends on circumstances outside the borrower's control, loans are extremely risky. Thus, effective loan management benefits the borrower and the national

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economy in addition to the bank's profitability. High percentages of non-performing loans could be the outcome of poor management of the loans that make up the bulk of bank assets.

The economy as a whole as well as the performance of banks would be impacted by this. For most commercial banks, the loan portfolio is the main source of revenue and business evaluation. Nevertheless, a portion of the loans made were subpar or in default, which hurt commercial banks' financial results.

Rise in bank funding costs:

This will result in higher capital costs since banks will now need to set aside more assets to ensure the efficient operation of their operations. The banks will raise loan fees in order to generate revenue and cover expenses. High non-performing assets (NPAs) sometimes exert pressure on banks to lower their deposit interest rates.decreasing the rate at which your interest in fixed deposits grows as a result. In this way, interest rates on credits and advances rise to keep up with their NPAs. This continually raises the cost of borrowing money, discouraging people from obtaining credit and so slowing the flow of cash into the market. In this way, a country's rapidly growing NPA situation can unsettle its financial system and ultimately become a barrier to its progress.

Example: A recent operating paper titled "Bank Capital and Financial Policy Transmission in India" by the employees of the Banking Company of India (RBI) stated that non-performing assets (NPA) of a bank weakens the financial policy transmission and loan rate of growth. The study established the existence of the bank capital channel of financial policy transmission for India and stated that there is a positive correlation between bank equity and credit growth ("Non-performing assets (NPA) could be a reason for your bank's slow loan growth rate", 2020).

A reduction in the bank's total credit rating:

The bank borrows money in addition to lending it. They are able to take out loans from the RBI, other banks, and other organizations. Consequently, in order for banks to obtain loans, they must preserve their credit ratings.

As of right now, we know that poor loans exacerbate a bank's current financial situation in addition to impeding its ability to grow financially. An increase in non-performing assets (NPAs) hinders the bank's ability to recycle its capital and limits its capacity to extend new loans, which is the bank's main source of revenue. This causes earnings to decline or possibly result in losses. Due to the bank's poor financial standing and current liquidity issue brought on by large non-performing assets,its capacity to pay back its own loans declines, which may have an impact on the bank's credit rating. A bank's goodwill and brand value are negatively impacted by a high percentage of bad loans; as a result, not only is the credit rating impacted, but the bank's shareholders start to hesitate about making investments.

For instance, Standard & Poor's upgraded the outlook for Indian Bank in August 2021 from "negative" to "positive" due to the expectation that the bank's capital base will be able to tolerate some impact on asset quality over the course of the following 24 months. Because of their recent equity fundraising and enhanced capitalization,financial success. As of June 2021, the bank's reported non-performing loan percentage was still declining, having gone from a peak of 11.4% to roughly 9.7% after Allahabad Bank's merger. In contrast to its counterparts, Axis Bank, ICICI Bank, and the State Bank of India, the quality of its assets is not optimal. He went on to say that poor loans from Indian banks are predicted to account for about 12% of all loans in FY22 and then drop to roughly 11.5% in FY23. In this instance, a bank's nonperforming assets (NPAs) are taken into account while determining its credibility. This demonstrates that NPA is a crucial factor in assessing a bank's profitability and reputation. (Lele, 2021)

Reduction in Bank's Lending Potential:

Banks are gradually using credit scoring models to evaluate advance candidates. These models usually aim to restrict the number of incorrectly placed credits or the default rates. They disregard the fact that advances are multiperiod contracts in this way, which is why it's important for banks to know both whether and when an advance will default. In this work, the decision of whether or not to grant an advance and the endurance season of conceded advances are evaluated using a bivariate tobit model with a variable editing edge and test choice impacts.In the end, the model proves to be a useful tool for separating applicants with short and long endurance times.

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The bank's credit arrangement measure is shown to be inefficient: advances that struggle to reduce default risk and increase endurance time are permitted. This means that there is no trade-off between the lending strategy's higher default risk and higher yield.

IV. CONCLUSION

Based on the concept of the previous discussion, general observations, issues, and opinions regarding the banking sector's performance, the economy's money stability, the profitability of loans, and the management of non-performing assets. In hindsight, the Indian banks have generally demonstrated a history of sustained profitability and smart performance in spite of growing interest rates, an increase in operating costs, and the fallout from the most recent global financial crisis. stronger credit growth deposit records, stronger asset returns, and higher return on equity frequently reflect this.

Due to the banks' ability to raise huge sums of money, their capital situation significantly improved.

According to the report, all banks currently have a high level of non-performing assets (NPAs). The main consequences of bad loans on banks are decreased bank profitability, an increase in fund value, and a reduction in the bank's ability to lend money. However, banks must reduce their non-performing assets (NPA). They can do this by using sound credit appraisal practices, strong control mechanisms, and initiatives to improve the quality of their balance sheets.

RBI write-off and provisioning rules will result in a decrease in NPAs.But industrial banks may find it difficult to be profitable, especially in this fiercely competitive period and with the shift away from the banking industry to NBFC and foreign banks in general. This is predicated on the fact that interest rates and borrower operating costs are both on the rise.

In order to conform to provisioning rules, banks could increase their attempts to raise money. But the amount of Capital required would be enormous. Taking into account the many forms that banks and other financial institutions operate under in the economy, as well as their NPA percentages. The current state of the capital market in the economy would make it difficult for banks to mobilize money.

Last but not least, it's critical to note that new and personal sector banks, lead by SBI, HDFC, and ICICI, are well-positioned to adapt to regulations generally due to their high capital adequacy ratios, increased share of common stock, and higher IT and alternative fashionable money skills of the workforce. Despite being the leading banks in the Indian economy, PSU banks may find it more difficult and time-consuming to adhere to regulations in the years to come.

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