

MERGERS AND ACQUISITIONS IN INDIAN PUBLIC SECTOR BANKS: A COMPARATIVE ANALYSIS OF PERFORMANCE BEFORE AND AFTER CONSOLIDATION

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Abstract

For Indian public sector banks, mergers and acquisitions have proven to be a crucial business strategy, especially in light of the government's efforts to fortify the banking industry in order to better address economic difficulties and provide credit. The goal of the bank consolidation movement is to build stronger, more robust banks that can compete globally. This report offers a thorough evaluation of the results of such acts by examining the performance metrics of significant public sector banks that have merged. This research looks at how mergers and acquisitions (M&A) affect the performance of public sector banks (PSBs) in India, with a particular emphasis on the time frame leading up to and following significant government-initiated consolidation efforts. Using a dataset of multiple PSBs that underwent consolidation, the study examines financial ratios and other critical performance metrics before and after the merger across a five-year period. According to preliminary research, some banks show a considerable increase in operational effectiveness and profitability following the merger, while others experience difficulties with integration, declining asset quality, and human resource management. The study also emphasises how outside variables, like shifting market dynamics and legislative requirements, can affect post-merger performance. By offering insights into the distinct dynamics of M&As within the Indian banking sector and making policy recommendations for upcoming consolidation initiatives, our work adds to the body of current knowledge. The results highlight the necessity of a customized method for assessing merger performance in the context of public sector banks, taking into account the particularities of this financial sector.

Keywords: Merger, Acquisition, Public Sector Banks, Consolidation, Key Performance Indicators.

1. INTRODUCTION

1.1 Merger

An arrangement that merges two already-existing businesses into one new business is known as a merger. Companies merge for a variety of reasons and in a variety of forms. Acquisitions and mergers (M&A) are frequently carried out to broaden a business's customer base, penetrate new markets, or increase its market share. The goal of all of these is to raise shareholder value. Companies frequently include a no-shop clause in their merger agreements to stop other companies from merging or buying them out. The voluntary combination of two businesses into one new legal entity on largely equal conditions is known as a merger. In terms of size, clientele, and operational scope, the merging companies are about equal. The phrase "merger of equals" is occasionally used as a result. Unlike mergers, which are usually consensual, acquisitions entail the deliberate purchase of another company by another?

The main goals of mergers are to increase market share, lower operating costs, enter new markets, combine similar product lines, boost sales, and boost profits all of which should be advantageous to the companies' shareholders. Shares of the merged firm are given to the current stockholders of the two original companies. A corporation may decide to merge in order to expand into a new market, offer a new service, or sell a new product. They can also modify pricing methods, enhance management, cut tax obligations, and lessen operating expenses. In the end, businesses merge to grow in size, scope, and income. Put another way, mergers increase corporate profits.

When an organisation decides to merge with another organisation, it may have certain advantages. As previously said, mergers enable businesses to introduce new goods or expand into untapped markets, frequently at a lower cost or with more efficiency than they could achieve alone. Through mergers, businesses can achieve economies of scale and size basically, the commercial equivalent of bulk purchasing. They provide businesses with access to finance because they are effectively combining their resources and budgets. Companies that are merging may choose to combine their operations, which will increase revenue to the bottom line.

There may be benefits when an organisation chooses to combine with another organisation. As said earlier, mergers allow companies to launch new products or enter undiscovered areas, often at a lesser cost or with greater efficiency than they could accomplish on their own. Businesses can attain economies of scale and size through mergers; these are essentially the corporate counterpart of buying in bulk. Since they are efficiently merging resources and budgets, they give firms access to capital. Businesses that are merging might decide to consolidate their operations, which will boost bottom line revenue.

Organisations that combine with another organisation may run into the same issues as benefits. Before two businesses may merge, there are numerous legal requirements that both parties must meet and funds. Mergers are complicated legal operations. Mergers can have an impact on the management, performance, and employee turnover of the

individual organisations because they are frequently linked to layoffs or material modifications to the workplace culture. A merger can go wrong in a lot of different ways. For example, antitrust laws apply to them: If the federal government was worried that the new business would create a monopoly and reduce competition in the market, it may take legal action to thwart the acquisition.

1.2 Acquisition

An acquisition is a deal in which one business buys all or most of the shares of another business in order to take over that business. In business, acquisitions happen frequently and might be approved by the target company or not. During the approval procedure, there's usually a no-shop provision. Though mergers and acquisitions, or M&A, happen more frequently between small to medium sized businesses than between major corporations, most people are familiar with the purchases of well-known, large enterprises. A business does a financial transaction known as an acquisition when it buys all or most of the shares of its target. Gaining control over a target's operations, including its resources, production facilities, market share, clientele, and other components, is the aim of an acquisition. Businesses buy out other companies for a variety of reasons. They could look for new niche products, cost savings, increased synergy, increased market share, economies of scale, or diversification. They may only wish to eliminate the rivals. Generally, acquisitions are amicable ventures. They take place once the target company consents to be bought. The transaction has the board of directors' approval. Friendly acquisitions frequently serve the interests of the target and acquiring firms equally.

If a corporation wishes to expand its operations to another country or entirely new market, purchasing an existing company there could be the simplest approach to enter a foreign market. The company that is being bought will already have its own staff, name, and other intangible assets. This could make it more likely that the acquiring company will establish a strong foundation for itself in a new market. Perhaps a business ran out of resources or encountered logistical or physical difficulties. When a company is burdened in this manner, it's usually wiser to acquire another company rather than grow its own. As a fresh avenue for profit, such a company would search for young, promising businesses to buy and add to its revenue stream. When there is too much supply or competition, businesses may begin to acquire other companies in order to minimise excess capacity, drive out competitors, and concentrate on the most productive suppliers. Federal monitors frequently keep an eye on transactions that could impact the market. Acquisitions between two comparable businesses may hurt consumers by resulting in increased costs and lower-quality products and services.

Occasionally, buying a business that has already successfully adopted new technology can prove to be more cost-effective than investing the time and resources necessary to develop the technology from scratch. Through M&A, a business can instantly expand into new product lines and markets with a well-known brand, a solid customer base, and an established clientele.

Previously difficult hurdles to market entry may be surmounted with the aid of an acquisition.

Due to the costs associated with conducting market research, developing a new product, and the time required to establish a sizable clientele, entering a new market can be an expensive strategy for small firms. A corporation can swiftly grow its market share with the aid of an acquisition. Growth by acquisition can be useful in obtaining a competitive edge in the marketplace, despite the fact that competition can be difficult. Synergies in the market are achieved with the method. An organisation may decide to acquire other companies in order to acquire resources and capabilities that it does not already possess. Several advantages can result from doing this, including quick revenue growth or an increase in the company's long-term financial situation, which makes it simpler to rise funding for expansion plans. Small businesses can obtain experts like financial, legal, or human resource specialists when they merge with larger companies. Following an acquisition, a larger company's access to finance is enhanced. Due to their limited access to substantial loan funds, small business owners are typically required to invest their own capital in the expansion of their companies. But with an acquisition, a larger amount of capital is available, allowing business owners to obtain necessary funding without having to take money out of their own pockets. M&A typically helps put together a new team of specialists with fresh perspectives and ideas and who are passionate about helping the business realise its goals.

1.2.1 Challenges with Acquisitions

When one business owner buys a complementary business that will increase revenue for him or her, mergers and acquisitions (M&A) can be an effective approach to grow a business. M&A transactions, however, can also cause problems and hurt the company. A corporation typically has a unique culture that has grown since its founding. Purchasing a business whose culture is in opposition to your own may present challenges. It's possible that managers and staff from the two businesses won't integrate as successfully as planned. The relocation may not be well-liked by the staff, which could lead to hostility and worry. Employees may end up copying each other's work as a result of acquisitions. In certain circumstances, when two similar organisations merge, two divisions or individuals may do the same task. This may result in exorbitant wage expenditures. Therefore, to maximise savings, M&A transactions frequently result in employment losses and organisational reorganisations. However, employment losses can lower morale among staff members and result in lower output.

Given that the two companies engaged in the transaction have previously operated independently, they may have different goals. For example, the acquiring company might be wanted to reduce expenses, while the original company would desire to expand into new markets. This could lead to resistance in the acquisition, which would be detrimental to the work being done. When searching for the best firm to buy, a corporation that disregards professional advice may wind up focussing on a business that poses more problems than solutions. This may prevent an otherwise successful business from expanding.

After an acquisition, the company's suppliers might not have adequate capacity to offer the extra materials, supplies, or services that will be required. M&A could harm the current brand or the new company's reputation. It is necessary to assess whether the two distinct brands should remain distinct prior to finalising the agreement.

1.3 Indian Banking Sector - Public Sector Banks

Public Sector Banks are a significant category of government owned banks in India, wherein the Ministry of Finance (India) of the Government of India or the State Ministry of Finance of several State Governments of India own a majority share (i.e., more than 50%). These government owned banks have their shares listed on stock markets. The welfare of society is their primary goal.

The Imperial Bank of India was nationalised in 1955, marking the Central Government's entry into the banking industry. The Reserve Bank of India acquired a 60% share in the new bank, which was dubbed State Bank of India. After the Union government passed the State Bank of India (Subsidiary Banks) Act, 1959, the other seven state banks were merged into the new bank. On July 19, 1969, the Indira administration nationalised an additional fourteen large banks, marking the second significant government intervention in the financial sector. Fifty crores was the total amount of deposits in the nationalised banks in 1969. As a result of this action, nationalised banks are now more prevalent in India, with the government controlling 84% of all branches.

A total of Rs.1160 crores was declared as losses by the nationalised banks. This tendency was reversed in the early 2000s, though, as public sector banks made a profit of Rs.7780 crores in 2002–2003. This trend persisted throughout the decade, with profits of Rs.16856 crore in 2008–2009. On August 13, 2008, State Bank of India merged its subsidiary State Bank of Saurashtra with itself, marking the beginning of the consolidation of banks affiliated with SBI. On August 27, 2010, it combined State Bank of Indore with itself. With effect from April 1, 2017, State Bank of India combined with its remaining subsidiaries, which included State Bank of Bikaner & Jaipur, State Bank of Hyderabad, State Bank of Mysore, State Bank of Patiala, State Bank of Travancore, and Bharatiya Mahila Bank.

In 2018, Bank of Baroda was formed by the merger of Vijaya Bank and Dena Bank. Since LIC bought the shares from Gol in January 2019, IDBI Bank has been classified as a private bank. Finance Minister Nirmala Sitharaman revealed the government's intention to further consolidate public sector banks by August 30, 2019. The mergers became operative on April 1, 2020. Indian Bank amalgamated with Allahabad Bank. Punjab National Bank was formed by the merger of Oriental Bank of Commerce and United Bank of India. Union Bank of India was formed by the merger of Andhra Bank and Corporation Bank. Canara Bank amalgamated with Syndicate Bank.

These banks are mostly owned by the Indian government, which also provides direction to them so that clients can feel secure about their financial investments. Government established financial regulations are adhered to by public sector banks in India, and their service fees are generally less than those of private banks. These banks also launch a

range of financial initiatives for the good of the general public. After merging with five affiliate banks, SBI, one of the biggest public banks in India, significantly strengthened its finances and was ranked among the top 50 banks in the world. The nationalisation of state banks by the government accelerated the expansion of public banks in India. Furthermore, international banks operating in India have influenced the development of the banking industry.

1.3.1 Merger Banks Status with History

With the goal of restructuring and reorganising the nation's banking system, Ms. Nirmala Sitharaman, India's Finance Minister, announced in August 2019 the merger of the major public sector banks in the nation. There are currently 12 PSBs (Public Sector Banks) in India. After consolidation, there will be 12 PSBs from the 27 with fragmented lending capability in 2017. The government of today was following the suggestions made by M Narasimham Committee in 1991.

1.3.2 List of Merged Banks

Ten Public Sector institutions in India became four as a result of mergers in the banking sector, with anchor institutions being essential to this development. It is noteworthy that certain banks with a focus on certain regions, such Bank of Maharashtra, UCO Bank, Punjab and Sind Bank, and Indian Overseas Bank, are still operating as separate businesses. An overview of the combined public sector banks is provided below:

Table 1: List of Merged Banks

Bank	Merged Banks	Reason
Punjab National Bank	Oriental Bank of Commerce, United Bank of India	To improve operational efficiency and establish the second-largest public sector bank in India. The OBC Oriental Bank of Commerce and the UBI United Bank of India have joined forces with the Punjab National Bank (PNB), the country's second-largest public sector bank. After this merger, PNB should have an overall business value of Rs. 17.95 lakh crore and a branch network of 11,437 locations.
Canara Bank	Syndicate Bank	To improve operational efficiency and establish the fourth-largest public sector bank in India. After Canara Bank and Syndicate Bank merged, a lender with an aggregate value of Rs 15.2 lakh crore was formed. Canara Bank is now the fourth-biggest public sector bank in India as a result of this merger.
Indian Bank	Allahabad Bank	The bank's revenue surpassed ₹10 million in March. Nirmala Sitharaman, the Minister of Finance, declared on August 30, 2019, that Indian Bank and Allahabad Bank would merge. Combining the two would make the combined bank ₹8.08 trillion (US\$97 billion) in assets, making it the seventh largest public sector bank in the nation.
Union Bank of India	Andhra Bank, Corporation Bank	To improve operational efficiency and fortify the organisation. Andhra Bank, Corporation Bank, and Union Bank of India (UBI) merged to form a lender with an aggregate valuation of Rs 14.59 lakh crore. UBI would become the fifth-largest public sector bank in India as a result of this merger.
Bank of Baroda	Dena Bank, Vijaya Bank	To improve operational efficiency and establish the third-largest public sector bank in India. The Bank of Baroda (BoB) is the second-largest lender to have combined with other banks, behind PNB. With combined

		revenue of Rs 14.82 lakh crore, the lending entity formed by the merger of BoB, Vijaya Bank, and Dena Bank is now the third-largest public sector bank in India.
State Bank of India	State Bank of Travancore, State Bank of Mysore, State Bank of Hyderabad, State Bank of Patiala, State Bank of Bikaner and Jaipur, Bharatiya Mahila Bank	The merger will lessen the unhealthy PSB competitiveness. Furthermore, smaller banks found it challenging to maintain different risk standards and competition. Additionally, there was a need for technology and compliance because of the Basel III regulatory changes and risk standards. SBI now has the greatest asset size in the world as a result of the merger. Banks can now give defaulters more of their attention. The combination has allowed for easier multiple recoveries.

Source: [thehindu.com/opinion/op-ed](https://www.thehindu.com/opinion/op-ed)

1.3.4 Recent Developments in the Consolidation of Indian Public Sector Banks

As of October 2023, the banking industry was discussing the consolidation of Indian public sector banks (PSBs), largely due to the need for a more robust financial framework in the wake of many economic challenges. The Bank of Baroda, Vijaya Bank, and Dena Bank merger in 2019 and the merging of Oriental Bank of Commerce and United Bank of India with Punjab National Bank are two prominent mergers that the Indian government has started. The government declared in 2020 that multiple minor PSBs would unite to become stronger organisations with improved operational efficiency and capital bases.

Government and the Reserve Bank of India (RBI) have been instrumental in formulating policies that encourage consolidation. Financial support, regulatory relaxation, and a focus on enhancing asset quality are some of these measures. Enhancing digital banking capabilities and enabling improved risk management among consolidated organisations were the main goals of the most recent banking reforms. In reaction to the COVID-19 pandemic's effects on the banking industry, the consolidation plan has been included into larger efforts for economic recovery, mainly aimed at managing non-performing assets (NPAs). The focus is on enhancing capital adequacy and risk management frameworks to improve the overall health of the banking system. Technology integration has also been pushed by combined companies, with funds going towards modernising IT platforms and systems to improve customer support and operational effectiveness. The development of FinTech solutions and upgrading digital infrastructure has been a significant emphasis area during and after the mergers.

Consolidation has primarily aimed to build more robust financial institutions that can sustain India's expanding economy. Enhancements in risk management and credit delivery are part of this. It is believed that the banking industry's competitiveness is essential to the state of the economy as a whole. Foreign and private sector banks are more difficult to compete with than consolidated banks. By utilising the larger asset bases

of healthier banks, mergers have been intended to strengthen the balance sheets of banks that are financially weaker.

Increased economies of scale, improved resource efficiency, and cost optimisation are possible outcomes of the consolidation. Although stronger technology and more stable operations might enhance services through consolidation, there may be short-term difficulties for clients, such as disruptions in service and name changes for bank locations. Concerns have been raised about employment losses as a result of combined entities' overlapping functions. On the other hand, over time, stronger institutions might create new job opportunities.

Integrating various organisational cultures, which can affect staff morale and operational coherence, is one of the main obstacles in bank mergers. The integration process may occasionally be slowed down by the consolidation process's need to manage several regulatory requirements and guarantee compliance with RBI directives. Customers are frequently uncertain after mergers. During the shift, banks need to take proactive measures to preserve their client base and trust.

A calculated step towards building a stronger financial system in India is the consolidation of public sector banks in India. Although it has many advantages, it also has drawbacks, including integration, regulation, and consumer interactions. These must be carefully managed. It will be crucial to keep an eye on these developments in order to comprehend how they will affect the economy, the banking industry, and the public's trust in financial institutions in the long run.

The success of consolidated companies in the upcoming years will depend heavily on maintaining the focus on strengthening technology foundations, assuring sustainable growth methods, and improving governance frameworks. To make more complex inferences regarding the efficacy of these measures, future research might concentrate on examining the post-merger performance of the newly formed businesses.

2. REVIEW OF LITERATURE

The purpose of bank consolidation in India was to reduce the number of weaker banks and increase efficiency, as explained by Reddy, K. R., 2018. It draws attention to the difficulties encountered during the merger procedures and their effects on performance indicators.

In their 2019 study, Kumar, A., & Sharma, R. looked at how bank consolidation affected financial stability and made the case that by lowering non-performing assets (NPAs) and growing larger, more diverse banking institutions, consolidation strengthened the banking system. The operational efficiencies obtained by bank consolidation were the main topic of Ghosh, A. (2020). Ghosh presented case studies of combined banking organisations that reduced costs and increased service effectiveness, both of which raised customer happiness. Sen, P., and Das, S. (2021) examined how recent mergers have affected market competitiveness in the banking industry. They came to the conclusion that while

consolidation would provide some banks more market strength, it might also lead to less competition.

In 2022, Choudhury, A., and Bandyopadhyay, D. examined the regulatory obstacles linked to bank mergers in India. The authors stressed that in order to promote more seamless transitions and reduce disturbances during the consolidation process, a well-defined regulatory framework is essential. The investigation of the merged banks' post-merger performance was covered by Mahajan, V. (2023). According to Mahajan, a number of amalgamated banks experienced short-term drops in profitability but eventually witnessed increases as they made use of synergies and streamlined processes.

According to research by writers like P.V. Suresh Kumar (2019), PSB consolidation is partially a reaction to growing non-performing assets (NPAs), with the goal of building stronger organisations that are more resilient to shocks. The efficacy of prior mergers was examined in a study by Nitin S. Singh and Aditi Das (2020), which hypothesised that PSB consolidation, could improve resource allocation and operational efficiency. According to research by R. Sharma (2021), larger banks might more successfully compete with private sector banks, which would increase competition in the Indian banking market. Following mergers and consolidations, studies by Malhotra and Chaudhary (2021) indicated substantial consequences for employment numbers and workforce dynamics, raising worries about job losses and employee morale. Dinesh R. Iyer (2022) and other authors addressed the regulatory obstacles and factors that must be taken into account during the consolidation process, such as the necessity of strong governance structures to oversee the larger institutions. Researchers like Priya Mehta and Sanjay K. Agarwal (2023) have focused on how the implementation and integration procedures of consolidation can either strengthen or weaken financial stability. The analysis conducted by Choudhury, M., and Ghosh, S. (2016) in their paper "Impact of Mergers and Acquisitions on Performance of Indian Public Sector Banks: A Study of Selected Banks" revealed that certain public sector banks' efficiency and profitability had greatly increased following their merger. The authors emphasised that the realisation of economies of scale and operational synergies were important factors influencing improved performance.

In his paper "Performance Analysis of Merged Banks in India," Bhaduri, S. (2014) noted that there was a mixed effect on the performance of merged banks, with some reporting better return on assets (ROA) and others having trouble integrating. The study found that successful post-merger integration strategies are essential to the success of mergers and acquisitions in the banking industry. Using a comparative analytical methodology, Prasad, A., & Reddy, Y. (2015) evaluated pre- and post-merger performance measures such net interest margin and operational efficiency in their study titled "An Empirical Study on the Performance of Merged Banks in India". They discovered that while some metrics displayed an upward trend after the merger, overall efficacy differed, indicating the need for improved strategic planning and regulatory framework. The paper "Evaluating the Performance of Merged and Acquired Indian Banks: A Statistical Approach" by Kumar, S. and Rao, R. (2017) used statistical methods to examine data from a number of public

sector banks. The results indicated that most banks recovered and experienced positive growth in the years that followed mergers, despite the fact that performance indicators initially decreased immediately following mergers. The study "Mergers in the Indian Banking Sector: Lessons from the Past" by Basu, S. (2018) outlined the historical background of mergers and acquisitions (M&A) in Indian banks and stressed that although these benefits are contingent on cultural integration and strategic alignment, they are not guaranteed. Ravi Kumar and Mohd. A. Noor (2019) in their study titled "Impact of Mergers and Acquisitions on the Performance of Indian Public Sector Banks" examined financial performance metrics including Return on Equity (RoE) and Return on Assets (RoA) both before and after several bank mergers. They discovered that although some banks had improved their financial ratios after the merger, the performance of the sector as a whole differed greatly depending on the features of the merging companies.

In their paper "Performance Evaluation of Mergers and Acquisitions of Public Sector Banks in India," Sreeja V. and Kumar K. (2020) assessed a number of performance measures for banks involved in mergers, including profitability and operational efficiency. The investigation showed that whereas some banks performed better after consolidation, others ran into problems that impeded their expansion. In their work "Evaluating the Impact of Mergers on Financial Performance of Public Sector Banks in India," Arun S. and Lalita N. (2021) presented a thorough empirical analysis that employed statistical techniques to analyse performance measures both before and after the merger. They came to the conclusion that operational synergies from mergers were common, but the success rates were mostly influenced by the managerial tactics used during integration.

In their paper "A Comparative Study of Financial Performance of Merged Public Sector Banks in India," Choudhary R. and Sharma S. (2022) examined case studies of certain mergers and evaluated the effects on effectiveness, market share, and client satisfaction. They proposed that two important elements influencing post-merger success are staff management and cultural integration. In the study "Consolidation Trends in Indian Banking: A Post-Merger Performance Analysis" by Narasimhan A. and Satyajit J. (2023) examined the long-term effects of different mergers on market performance. It found that while some banks showed notable growth, others faced problems such as bad loans and governance issues that hindered their performance after consolidation.

The combined findings of these studies suggest that mergers and acquisitions in the Indian public sector banking sector can result in favourable outcomes; however, the degree of success is contingent upon a number of factors, such as management practices, strategy alignment, and external economic conditions.

3. RESEARCH METHODOLOGY

3.1 Statement of Problem

In the global banking industry, merger and acquisition (M&A) activities have emerged as a key tactic for boosting operational effectiveness and competitiveness. Consolidation is a strategy that the Indian government is using more and more to support public sector

banks (PSBs), which are frequently beset by high levels of non-performing assets (NPAs) and operational inefficiencies. Nevertheless, despite the increasing trend of PSB mergers, there is a lack of empirical data evaluating the true effect of these consolidations on the banks' operational performance.

By comparing the performance of Indian public sector banks before and after the significant consolidation attempts carried out in recent years, this study seeks to close this gap. The efficacy of mergers and acquisitions in accomplishing the desired goals of enhanced financial health and service efficiency will be evaluated through the analysis of key performance indicators (KPIs) including profitability, asset quality, return on equity, and market share.

This study aims to solve the following important questions related to the problem:

1. What patterns of performance did Indian public sector banks exhibit both prior to and following significant attempts at consolidation?
2. How much have mergers and acquisitions improved financial indicators like profitability overall, return on equity, and return on assets?
3. What effects has the merger had on the banks' ability to manage costs and maintain asset quality?
4. Do the size and type of the mergers that occurred affect performance results in a meaningful way?
5. How do regulatory frameworks and outside economic situations affect PSBs' post-merger performance outcomes?

By attempting to answer these concerns, this research hopes to add to the current conversation about banking reforms and financial stability in India by offering insightful information about how well M&A works as a strategy to strengthen public sector banks in that nation. The results could also help regulators and banking authorities assess future consolidation plans and make sure that they are in line with the more general objectives of stability and economic growth.

It takes a thorough research approach to conduct a study on the consequences of mergers and acquisitions (M&As) in Indian public sector banks (PSBs) that will guarantee reliable results and a strong analysis. A suggested research technique that covers different phases of data collecting, analysis, interpretation, and research design is provided below.

3.2 Research Objectives

- To evaluate Indian public sector banks' pre- and post-merger performance.
- To determine which key performance indicators (KPIs), such as profitability, asset quality, and operational efficiency are pertinent to banks.
- To compare the effects of mergers and acquisitions on banks that have merged and those that has not.

3.3 Hypotheses

H1: Merged public sector banks will show significant improvement in performance metrics post-merger compared to pre-merger performance.

H2: Merged banks will outperform non-merged PSBs in the post-consolidation period.

3.4 Research Design

- Time Frame: An analytical research that took place before and after the mergers for at least three to five years.
- Population: All Indian public sector banks involved in mergers and acquisitions.
- The sample size consist of banks that have seen notable mergers during the past ten years, such as the merger of Punjab National Bank, Bank of Baroda, Canara Bank, Indian Bank and State Bank of India with associated banks.
- Sources of Data: Financial statements, annual reports, and pertinent statistical data from RBI publications and bank websites were used as sources of secondary data. Additionally, historical performance data was obtained through the usage of financial databases such as CMIE Prowess, Bloomberg, and Thomson Reuters.
- Data Analysis: The data were analysed with the help of ratio analysis.

4. SIGNIFICANCE OF STUDY

In the banking industry, mergers and acquisitions are important because they can improve service delivery, boost operational efficiency, and stabilise the financial system. Evaluating the contribution of banks to economic growth and stability in the Indian economy involves comparing their performance before and after consolidation. Policymakers may find the findings useful in understanding the consequences of banking sector consolidation. The study's conclusions may influence future regulatory choices by providing guidance on how to promote a strong financial ecosystem while taking public sector banks' particular issues into account. Through the assessment of multiple performance indicators, including profitability, asset quality, liquidity, and customer happiness, both prior to and during M&A transactions, the research can provide insight into how well these tactics are working to improve bank operations and overall performance.

M&A can change a bank's risk profile. The effects of consolidation on credit risk, operational risk, and market risk may be seen through a comparative analysis. Banks can strengthen their resilience against financial shocks and enhance their risk management techniques by comprehending these changes. The analysis might provide light on whether mergers provide merged banks with a competitive edge over independent banks. Stakeholders can evaluate the strategic advantages of consolidation over organic growth plans with the use of this understanding. The study can shed light on how different stakeholders such as customers, shareholders, and employees are impacted by mergers. Understanding these effects can be essential for controlling the transition process and

resolving issues that come up both during and after consolidation. Discussions on global trends in banking consolidation can benefit from the inclusion of perspectives from the Indian context. Lessons on triumphs and challenges that may apply to other emerging economies going through comparable institutional consolidations should be facilitated by a comparative analysis.

The findings may serve as a foundation for further banking and finance-related research. It may reveal gaps in the existing body of knowledge about the effects of M&A, stimulating additional scholarly research and investigation into particular topics including customer behaviour after mergers, integration difficulties, and long-term performance sustainability.

The study might improve methodological approaches in the field of finance if it makes use of novel analytical instruments or frameworks. Robust research procedures have the potential to improve the validity and dependability of upcoming M&A studies. Lastly, the study may help to clarify for the general public and banking experts the characteristics and results of mergers and acquisitions. Raising awareness can help facilitate educated conversations about Indian public sector banking future.

In conclusion, the importance of this kind of research is in its capacity to produce useful information that may guide strategic choices, aid in the creation of policies, improve stakeholder comprehension, and offer a complex picture of the public sector bank environment in India.

Data Analysis and Interpretation

Data analysis in the context of mergers and acquisitions (M&A) in Indian banks involves examining financial, operational, and market data to assess their impact. Key metrics include profitability, non-performing assets (NPAs), capital adequacy, and customer base growth. The study highlights efficiency gains, risk mitigation, and economies of scale. Interpretation involves identifying trends, such as market consolidation, improved asset quality, or enhanced shareholder value. Challenges like integration costs and cultural compatibility are also analyzed. This helps policymakers and stakeholders evaluate the effectiveness of M&A as a strategic tool for fostering resilience and competitiveness in India's banking sector.

Table 2: Operating Profit Ratio of Select Merged Banks

Name of the Bank (1)	Before the Merging (2)	After the Merging (3)	Difference between 2 & 3 (4)	Square of (4)
Punjab National Bank	-21.02	-12.11	-08.91	79.3881
Bank of Baroda	-34.32	-17.34	-16.98	288.3204
Canara Bank	-12.98	-21.22	08.24	67.8976
Indian Bank	-22.89	-22.96	0.07	0.0049
State Bank of India	-25.75	-23.24	-2.51	6.3001
Total			-20.09	441.9111

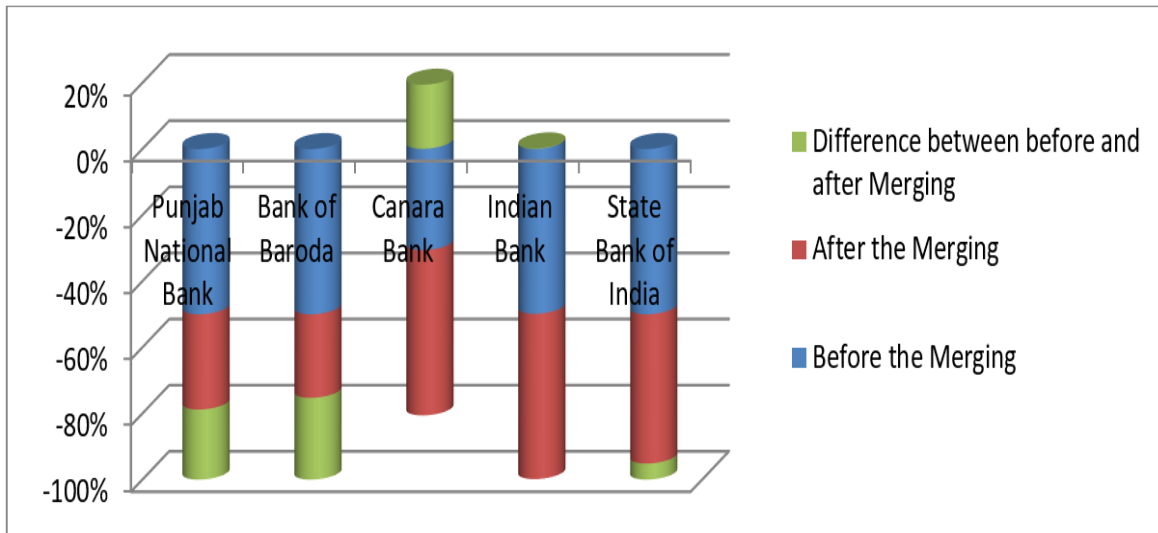


Figure 1: Chart showing the difference of Operating Profit Ratio between before and after Merging of select Banks.

Interpretation

- Prior to the merger, Punjab National Bank had the highest ratio (-21.02); following the merger, its ratio dropped to -12.11.
- The operational profit ratio figure above shows that Bank of Baroda had the lowest ratio (-34.32) prior to the merger and the ratio increased to -17.34 after the merger.
- Prior to the merger, Canara Bank had a highest ratio (-12.98), but after the merger, it had the lowest ratio (-21.22).
- Prior to the merger, Indian Bank had the highest ratio (-22.89); following the merger, its ratio dropped to -22.96.
- Prior to the merger, State Bank of India had the lowest ratio (-25.75), and following the merger, it had a higher ratio (-23.24).

Table 3: Net Profit Ratio of Select Merged Banks

Name of the Bank (1)	Before the Merging (2)	After the Merging (3)	Difference between 2 & 3 (4)	Square of (4)
Punjab National Bank	-6.22	0.93	-7.15	51.1225
Bank of Baroda	-18.97	0.58	-19.55	382.2025
Canara Bank	0.81	-5.44	6.25	39.0625
Indian Bank	-9.13	-8.34	-0.79	0.6241
State Bank of India	-14.34	-7.42	-6.92	47.8864
Total			28.16	520.8980

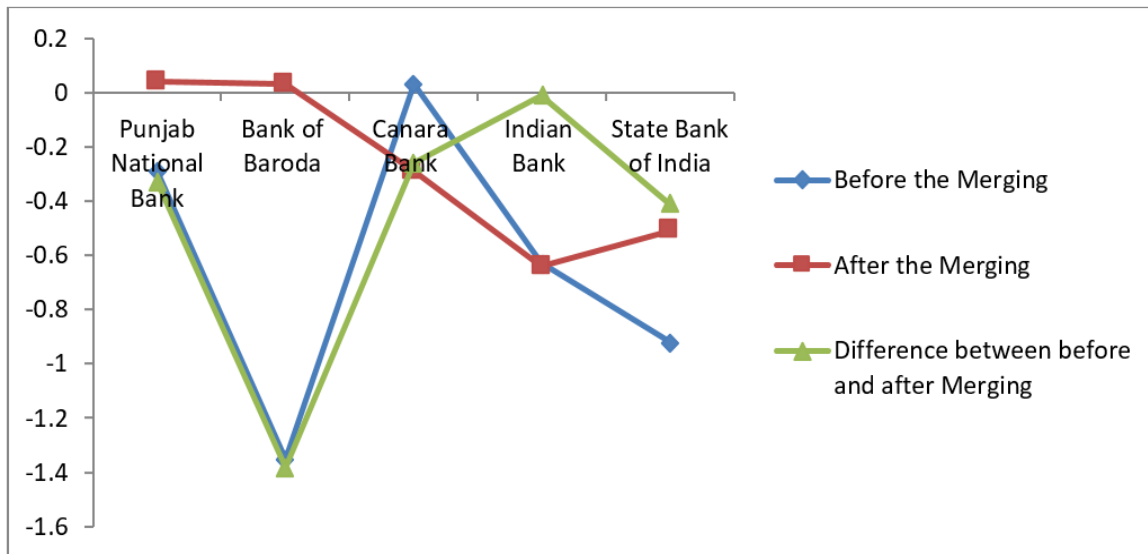


Figure 2: Chart showing the difference of Net Profit Ratio between before and after Merging of select Banks.

Interpretation

- Prior to the merger, Punjab National Bank had the lowest ratio (-6.22); following the merger, its ratio increased to 0.93.
- The operational profit ratio figure above shows that Bank of Baroda had the lowest ratio (-18.97) prior to the merger and the highest ratio (0.58) after the merger.
- Prior to the merger, Canara Bank had a higher ratio (0.81), but after the merger, it had the lowest ratio (-5.44).
- Prior to the merger, Indian Bank had the lowest ratio (-9.13); following the merger, its ratio increased to -8.34.
- Prior to the merger, State Bank of India had the lowest ratio (-14.34), and following the merger, it had a higher ratio (-7.42)

Table 4: Return on Asset Ratio of Select Merged Banks

Name of the Bank (1)	Before the Merging (2)	After the Merging (3)	Difference between 2 & 3 (4)	Square of (4)
Punjab National Bank	-0.29	0.04	-0.33	0.1089
Bank of Baroda	-1.35	0.03	-1.38	1.9044
Canara Bank	0.03	-0.29	-0.26	0.0676
Indian Bank	-0.63	-0.64	-0.01	0.0001
State Bank of India	-0.92	-0.51	-0.41	0.1681
Total			-2.39	2.2491

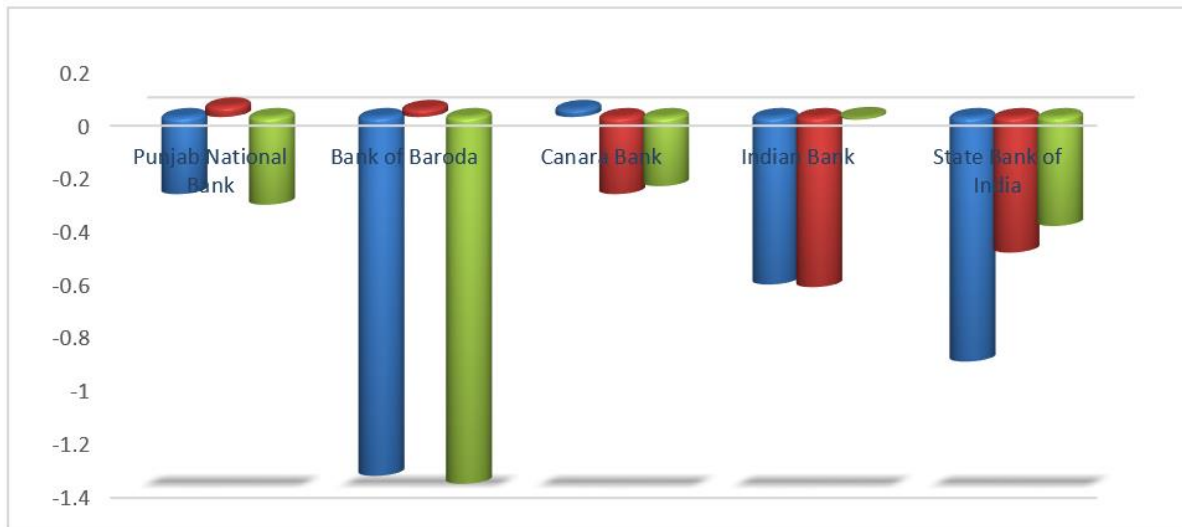


Figure 3: Chart showing the difference of Return on Asset Ratio between before and after Merging of select Banks

Interpretation

- Prior to the merger, Punjab National Bank had the lowest ratio (-0.29); following the merger, its ratio increased to 0.04.
- The Return on Asset ratio figure above shows that Bank of Baroda had the lowest ratio (-1.35) prior to the merger and the highest ratio (0.03) after the merger.
- Prior to the merger, Canara Bank had a higher ratio (0.03), but after the merger, it had the lowest ratio (-0.29).
- Prior to the merger, Indian Bank had the highest ratio (-0.63); following the merger, its ratio decreased to -0.64.
- Prior to the merger, State Bank of India had the lowest ratio (-0.92), and following the merger, it had a higher ratio (-0.51).

6. FINDINGS AND CONCLUSION

From the data analysis it is observed that majority of the merged banks performed well after the merging since all of its financial position have been balanced by other merged banks. And with respect to the hypotheses framed, it is identified that the banks are performing well after consolidation with other banks.

This study carefully looked at how mergers and acquisitions (M&A) affected Indian Public Sector Banks' (PSBs)' performance both before and after consolidation. Important information about these institutions' post-merger operational effectiveness, profitability, and general stability is revealed by our comparison analysis. First, the results show that financial performance metrics have generally improved as a result of PSB mergers. In the years after consolidation, important indicators like Return on Assets (RoA) have

increased, indicating improved asset utilisation and shareholder value. This shows that, within the Indian banking context, the strategic goals of M&A achieving economies of scale, growing market share, and strengthening competitive strength are being realised. The report also shows that operational efficiencies have significantly improved since the merger.

The improvement in cost-to-income ratios highlights enhanced resource management and operational synergies brought about by consolidation. These enhancements are essential in a setting where regulations are changing and competition is growing. Still, the study also finds problems that remain in spite of the successes. The smooth operation of combined companies is nonetheless impacted by problems including staff realignment, cultural mismatches, and integration difficulties. To fully realise the potential benefits of M&A in the banking industry, these issues must be resolved.

In conclusion, even though the consolidation of Indian PSBs has typically produced positive performance outcomes, there is still work to be done in order to fully reap the rewards of these mergers. To ensure sustainable growth and resilience in the face of future difficulties, policymakers and bank managements need to concentrate on strategic integration procedures, building a unified organisational culture, and optimising operations. To determine the long-term effects of M&A in the banking industry and make sure it improves the nation's overall economic situation, ongoing monitoring and assessment will be crucial.

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