Mergers & Acquisitions in Indian Banking Sector during Pre and Post Global Financial Crisis: An Empirical Analysis

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Abstract

Merger and acquisition is a vital tool for the growth and expansion in any industry. It is needful for the survival of the weak banks by merging into the larger banks. The recent research shows the effect of mergers and acquisitions in the Indian Bank sector weather Mergers & Acquisitions has led to a gainful condition or not. For this purpose the comparison between pre and post-merger performance in terms of camel models. CAMEL model as a technique is very operative and resourceful and accurate to be used as a performance evaluation in banking industry future and relative risk CAMEL model stands for capital adequacy, Asset quality, Management Earning and Liquidity. In the current research some significant ratios are selected and intended to estimate banks performance. Data which is used in this study gathered from annual financial reports of sample Bank and after that data is compared with other bank's ratios and reports. The Primary motive of this experiment is to assess the influence of Mergers and Acquisitions in Indian banking sector, their situation before and after Mergers and Acquisitions and concluding out the details after these Mergers and Acquisitions with the benefit of CAMELmethod. In the current study secondary data is used which has been taken from articles, magazines, newspapers, books and websites, etc.

Keywords: Mergers and Acquisitions, CAMEL approach, Indian Banking Sector, banks have Private sector and Public sector banks.

Introduction

In the present globalized economy, aggressiveness and upper hands have become the trendy expressions for corporate around the globe. Organizations are dynamically utilizing Mergers and Acquisitions (M&A) basically for ingoing new markets, coordinating resource development, gathering more noteworthy piece of the overall industry/extra modern limits, and picking up adjusting blessings and capacities, and to turn out to be progressively unobtrusive in the commercial center. Mergers and acquisitions are utilized for refining astuteness of organizations and increasing aggressive advantage over different firms however increasing more prominent piece of the overall industry, extension the portfolio to lessen business hazard and entering new markets. There is contrast as far as effect on introduction following mergers, dependent upon the firm gained – inland or cross-fringe.

Indian Banking Scenario

Like all business elements, banks need to guard against dangers, just as adventure accessible possibilities assigned by present and unsurprising patterns. Indian banks are progressively concentrating on receiving incorporated way to deal with hazard the board. M&As in the financial segment have been on the ascent in the ongoing past, both all around and in India. In this foundation of creating worldwide and Indian inclinations in the financial segment, this investigation lights the key issues encompassing M&As in banking division with the accentuation on India. It likewise looks to clarify the articles behind some M&As that have happened in India during pre and post worldwide budgetary emergency[1].

Deregulation has been the principle driver, following three significant courses:

- Dismantling of loan cost controls,
- Elimination of hindrances among banks and other monetary mediators,
- Dropping of passage obstructions.

Mergers and Acquisitions is the main route for quick unassuming preferred position in India and all inclusive and in that capacity the entire grouping of preparations are hoping to consider acquisitions inside India and abroad. So as to accomplish the frugalities of scale and furthermore to battle the insalubrious restriction inside the division other than unindustrialized as a modest power to number with in the transnational economy. Relationship of Indian financial part through mergers and acquisitions on lucrative thoughts and business stratagems – is the fundamental pre-essential. Today, the financial business is considered as a real part of the quickly developing enterprises in India. It has twisted itself from a torpid business substance to an approval industry. The development rate in this area is remarkable and along these lines, it has become the most favored banking terminuses for global investors. Over the most recent multi decade, there have been model move in Indian financial enterprises. The Indian financial part is developing at a stunning pace. A generally new estimation in the Indian financial industry is quicker through mergers and acquisitions. It will empower banks to accomplish world class status and toss more prominent incentive to the speculators.

Merger:

Merger is mix of at least two organizations into a solitary organization where one endures and the others lose their corporate presence. The survivor gains every one of the advantages just as liabilities of the consolidated organization or organizations. For the most part, the enduring organization is the purchaser, which holds its personality, and the smothered organization is the dealer. Merger is additionally named as amalgamation. All benefits, liabilities and the load of one organization stand moved to transferee Company with regards to installment as:

- Equity partakes in the transferee organization,
- Debentures in the transferee organization,
- Cash, or
- A blend of the above modes.

Forms of Mergers

Merger or obtaining relies on the reason for the offeror organization it needs to accomplish. In view of the offerors' destinations profile, blends could be vertical, level, roundabout and conglomeratic as decisively portrayed beneath concerning the reason in perspective on the offeror organization.

(a) Vertical mix

An organization might want to assume control over another organization or look for its merger with that organization to extend upholding in reverse joining to acclimatize the assets of supply and advance incorporation towards advertise outlets. The getting organization through merger of another unit endeavors on decrease of inventories of crude material and completed merchandise, actualizes its creation designs according to the targets and conserves on working capital speculations. As it were, in vertical blends, the combining undertaking would be either a provider or a purchaser utilizing its item as middle person material for definite creation.

(b) Circular mix

Organizations creating unmistakable items look for amalgamation to share regular appropriation and research offices to acquire economies by end of cost on duplication and advancing business sector amplification. The securing organization acquires benefits as economies of asset sharing and expansion.

(c) Conglomerate mix

It is amalgamation of two organizations occupied with irrelevant businesses like DCM and Modi Industries. The essential reason for such amalgamations remains use of money related assets and broadens obligation limit through re-arranging their monetary structure in order to support the investors by expanded utilizing and EPS, bringing down normal expense of capital and accordingly raising present worth of the remarkable offers. Merger upgrades the general strength of the acquirer organization and makes balance in the organization's all out arrangement of various items and generation forms.

The accompanying fundamental advantages accumulate from the vertical blend to the acquirer organization for example

It increases a solid position in view of flawed market of the go-between items, shortage of assets and bought items;

Has authority over items particulars.

(d) Horizontal mix

It is a merger of two contending firms which are at a similar phase of mechanical procedure. The procuring firm has a place with a similar industry as the objective organization. The fundamental reason for such mergers is to get economies of scale underway by taking out duplication of offices and the tasks and widening the product offering, decrease in interest in working capital, end in rivalry fixation in item, decrease in publicizing costs, increment in showcase sections and exercise better control on advertise.

Acquisition:

Acquisition in basic terms, is securing the possession in the property. With regards to business blends, procurement is the buy by one organization of a controlling enthusiasm for the offer capital of another current organization.

Strategies for Acquisition:

An Acquisition might be influenced by:

- Agreement with the people holding greater part enthusiasm for the organization the executives like individuals from the board or significant investors instructing dominant part of casting a ballot power;
- Purchase of offers in open market;
- To make takeover offer to the general collection of investors;
- Purchase of new offers by private settlement;
- Acquisition of offer capital through the accompanying types of contemplations viz. Methods for money, issuance of credit capital, or protection of offer capital.

Potential Motives behind Consolidation:

In view of the cases, we can limit the intentions behind M&As to the accompanying:

Development - Organic development requires significant investment and dynamic firms favor acquisitions to develop rapidly in size and land reach.

Cooperative energy - The blended substance, as a rule, has better capacity as far as both income improvement and cost decrease.

Administrative effectiveness - Acquirer can all the more likely deal with the assets of the objective whose worth, thus, ascends after the securing.

Key thought processes - Two manages an account with corresponding business premiums can reinforce their situations in the market through merger.

Market section - Cash rich firms utilize the obtaining course to buyout a set up player in another market and afterward expand upon the current stage.

Assessment shields and monetary protections - Tax concessions go about as an impetus for a solid bank to procure troubled banks that have amassed misfortunes and unclaimed devaluation benefits in their books.

Administrative intercession - To secure contributors, and forestall the de-adjustment of the budgetary administrations part, the RBI steps in to constrain the merger of a troubled bank.

M&A in Indian Banking as a Corporate Strategy

The financial business is a significant territory wherein mergers and acquisitions do make colossal monetary profits. Because of changes in the desire for the corporate client, banks are presently obliged to reconsider their business and devise new techniques. Then again, contenders both from India and abroad are infringing upon each territory of business in the common approach of LPG. Along these lines, Indian brokers are to battle to get by in a focused situation, and consequently they receive various methodologies[2]. Banking M&A stays particular from other M&A on account of industry explicit highlights of banks including their valuation, their way to benefit and their treatment of capital, utilizing stores and assets as crude material revenue driven creating items. They have no other choice but to decrease their costs (both operational expenses and the expense of credit) the best way to oversee intensity, which empowers the financiers to spread its overhead expense over an enormous client base. To increase focused cost advantage, union of activity as M&A is one of the powerful procedures generally embraced by the brokers. The Indian financial area is experiencing a procedure of confining, for the most part determined by inescapable patterns, for example, deregulation, disintermediation, mechanical advancement, development and extreme challenge. From 1961-2004, 71 mergers occurred among different banks in India.

Elements Explaining Rising M&A in the Financial

Sector

M&A, principally in the money related division, are increasing tremendous significance in the ongoing occasions because of related powers of deregulation, globalization and monetary development (Berger, Demsetz and Strahan, 1999; Kohers et al., 2000; Group of Ten Report, 2001; Amel et al., 2004; How et al., 2005; Mohan, 2005). In what follows, the remaining of these powers in controlling M&A movement is talked about. Deregulation: The decrease of Bretton Woods System during the 1970s brought about deregulation in monetary area of cutting edge and rising economies (Rangarajan, 2009). For example, in USA, disassembling of different financial confinements, for example, the Riegle-Neale Inter-state Banking and Branching Efficiency Act of 1994 prepared for cutting edge number of mergers crosswise over natural limits. Correspondingly, the Glass Stegall Act of 1933 opened probability of mergers crosswise over separated money related exercises (Hagendorff and Keasey, 2009). Because of different proportions of deregulation in the money related segment, prominently, deregulation of financing costs, decrease of sacred prerequisites (in view of liquidity, holds, credit and so on.) and a general decrease in passage wall for local and outside firms caused in free market powers and more prominent challenge

M&A in Indian Banking Sector during Pre and Post Global Financial Crisis

(MISAL D.M, 2013) India also needs to withstand the negative effect of the budgetary emergency. It is the aggregate test for the brokers, and the RBI to react to this phenomenal circumstance successfully and return India to its way of development and neediness decrease. Combination through M&A might be necessity of future. M&A is one of the most prestigious procedures to make appropriation with those evolving organizations[3]. M&A of future should focus on making of solid element and to create capacity to withstand the market stuns as opposed to securing the premiums of investors of feeble banks. The M&As in the financial segment ought to be driven by showcase related parameters, for example, size and scale; topographical and dissemination collaborations and aptitudes and limit.

Current Scenario in banking Industry

(Singhal, 2017) The Indian financial segment contains fundamentally in excess of 26 open segment banks, in excess of 25 private part banks, in excess of 43 remote banks, in excess of 56 territorial rustic banks, in excess of 1,589 urban helpful banks and in excess of 93,550 country agreeable banks, in summation of helpful credit associations. The level of consumer awareness is significantly higher as compared to previous years[4]. Now-a-days they need internet banking, mobile banking and ATM services. Open part banks control generally 80 percent of the market, accordingly leaving relatively a lot littler offers for its private companions. Banks are likewise confident their clients deal with their accounts utilizing cell phones the credit nature of huge borrowers has weakened impressively. The framework level credit danger financial part against macroeconomic pressure uncovered that the GNPA may increment to 9.8 percent by March 2017 and further to 10.1 percent by (March 2018).

Objectives of the study

The main motive of the study is to assess the situation before and after Mergers and Acquisitions of selected banks. So the objective of the study is as-

To analyze the pre- merger versus post-merger performance of selected banks.

Methodology

Scope of the Study

The present examination covers the 15 years of period beginning from the year 2001 to 2015 to decide the effect of mergers and acquisitions on the exhibition of chose banks. For examination, we take information before 3 years and following 3 years of merger and securing of chosen banks. Money related emergency is utilized to characterize the time of the examination just for example Pre Global Financial Crisis period is from the year 2000 to 2007 and Post Global Financial Crisis period is from the year 2008 to 2015.

Information Collection

The total investigation depends on the auxiliary information accessible in the two structures; electronic and material. The information required and data looked for has been gathered from the diaries and the money related reports accessible online on the site of Banks, Reserve bank of India and other related sites.

Test of the Study

There are in excess of 11 mergers and obtaining held during worldwide budgetary emergency period for example from 2001 to 2015. Yet, with the end goal of the investigation 3 Public part banks and 3 private segment bank had been taken. Pujab National Bank, Bank of Baroda and Oriental Bank of Commerce acquirer of Nedungadi Bank, Benaras State Bank and Global Trust Bank individually if there should arise an occurrence of Public Sector banks while ICICI, HDFC and Kotak Mahindra Bank are private segment banks. ICICI is procureSangli Banks and Bank of Rajasthan. HDFC and Kotak Mahindra Bank are obtaining Centurion Bank of Punjab and ING Vyasa Bank individually.

Instruments utilized for investigation

So as to discover the targets some exploration hypothesis has been figured and CAMEL model is being utilized during the time spent research. CAMEL represents Capital Adequacy, Asset Quality, Management Efficiency, Earnings Efficiency and Liquidity. There are 22 proportions for dissecting CAMEL however we take some particular proportion like-Capital Adequacy, Debt-Equity Ratio, Net NPA to Net Advances, Expenditure to Income Ratio, Assets Turnover Ratio, Net Profit Margin, and Return on Equity and Interest Expended to Interest Earned. For figuring proportion, we determined information for a long time when merger and take their mean. The information investigation was does by utilizing SPSS, and MS-Excel. Checking the degree of importance of Hypothesis, we utilized the understudy's T test. To check any huge distinction between Pre Merger and Post-Merger Performance of procuring banks exit or not following hypothesis checked with the assistance of T test. All hypothesiss kept an eye on 95% certainty level with 5 level of opportunity.

Hypothesis 1

H0: There is no huge contrast in Pre and Post-merger Capital Adequacy Ratio of obtaining banks

Hypothesis 2

H0: There is no huge contrast in Pre and Post-merger Debt Equity Ratio of obtaining banks

Hypothesis 3

H0: There is no huge contrast in Pre and Post-merger NPA to Net Advance Ratio of obtaining banks

Hypothesis 4

H0: There is no huge contrast in Pre and Post-merger Total Expenditure to Total Income Ratio of obtaining banks

Hypothesis 5

H0: There is no critical contrast in Pre and Post-merger Assets Turnover Ratio of securing banks

Hypothesis 6

H0: There is no critical contrast in Pre and Post-merger Net Profit Margin Ratio of securing banks

Hypothesis 7

H0: There is no critical contrast in Pre and Post-merger Return on Equity of securing banks

Hypothesis 8

H0: There is no critical contrast in Pre and Post-merger Interest Expended to Interest Earned of securing banks

Limitations of the Study

The time span of the examination is constantly a limitation from the perspective of point of confinement on its result. Also, various sources utilized for assortment of information may have a few constraints which have sway on the present examination yet it is normal that the above impediments don't influence the helpfulness of the investigation. The examination utilized measurable system, which acquires its own constraint. In the above examination just chose proportions of CAMEL approach had been taken for the correlation of pre and post-merger execution of banks. Be that as it may, just six chose banks had been taken from the whole financial segment.

Investigation of the selected bank's information based on chosen proportion

In the present investigation some proportion as Capital Adequacy, Debt-Equity Ratio, Net NPA to Net Advances, Expenditure to Income Ratio, Assets Turnover Ratio, Net Profit Margin, and Return on Equity and Interest Expended to Interest Earned to survey the presentation of banks when merger during budgetary emergency had been taken.

Table 1: Capital Adequacy Ratio,

Bank	Pre-Merger		Post-Merger		Increase/Decrease Performance on the basis of Pre and Post Merger
	Mean (%)	Rank	Mean (%)	Rank	

PNB	10.42	6	13.38	3	Increase
BOB	13.26	1	12.69	5	Decrease
OBC	12.40	2	10.92	6	Decrease
PSB-Mean	**12.03**		**12.33**		**Increase**
ICICI	11.73	4	16.30	2	Increase
HDFC	12.22	3	16.45	1	Increase
KMB	11.06	5	13.09	4	Increase
PvtSB-Mean	**11.67**		**15.28**		**Increase**

Source: Compiled from website of Banks PSB - Public Sector bank, Pvt SB- Private Sector Banks

Interpretation of Table 1

Capital Adequacy is huge presentation of the fiscal prosperity of a financial item. This demonstrates the banks volume to keep up capital proportionate with the nature and level of a wide range of dangers, as likewise the capacity of the bank's chiefs to classify measure, screen and control these dangers. This proportion goes about as a showcase of bank impact. According to RBI standards, Indian SCBs ought to have a CAR of 9% i.e., 1% more than indicated Basel standards while according to the most recent RBI standards, open division banks are featured to keep this proportion at 12%. It is landed at by isolating the aggregate of Tier-I, Tier-II and Level III capital by total of hazard weighted resources (RWA).

Representatively,

CAR= (Tier-I + Tier-II + Tier-III)/RWA

Level I capital incorporates value capital and free saves. Level II capital contains optional obligation of 5-7 years residency, amendment holds, half and half obligation capital instruments and undisclosed stores and total ceaseless inclination shares. Level III capital includes momentary subordinate obligation. Higher the CAR, more grounded is the bank. Table 1 shows the Capital Adequacy Ratio (CAR) of chose bank. If there should arise an occurrence of open segment bank, CAR expanded for PNB just and diminished for BOB and OBC after merger. On the off chance that we talk about private area bank, its show an expanding pattern for chosen private banks. In the event that we think about mean of open and private area banks, both are expanded after merger.

Table 2: Debt Equity Ratio,

Bank	**Pre-Merger**		**Post-Merger**		**Increase/Decrease Performance on the basis of Pre and Post Merger**
	Mean (%)	**Rank (%)**	**Mean**	**Rank**	

PNB	22.06	1	16.13	1	Decrease
BOB	17.27	2	14.94	2	Decrease
OBC	16.84	3	12.62	3	Decrease
PSB-Mean	**18.72**		**14.56**		**Decrease**
ICICI	12.04	6	6.75	6	Decrease
HDFC	12.14	5	10.26	5	Decrease
KMB	12.36	4	11.77	4	Decrease
PvtSB-Mean	**12.18**		**9.59**		Decrease

Source: Compiled from website of Banks PSB- Public Sector bank, PvtSB- Private Sector Banks

Understanding of Table 2

Obligation Equity Ratio in banks is a proportion of the significant of banks business that is upheld through the blend of obligation and value. It is a proportion of money related impact of a bank. It is expected as the measure of aggregate 'Outside Liabilities' to Net worth. 'Outside Liabilities' incorporates all out borrowings, stores and different liabilities. 'Total assets' incorporates value capital and stores and extra. Higher proportion assigns less guards for the loan bosses and savers in the financial framework Table 2 shows the territory of Debt value proportion. It diminished for all assigned banks after merger. It is additionally decreased for all chosen private area banks interestingly of pre-merger. On the off chance that we compare mean of obligation value proportion for selected open and private division banks, both are diminished after merger.

Table 3: Net Non-Performing Assets (NPA) to Net Advances Ratio,

Bank	Pre-Merger		Post-Merger		Increase/Decrease Performance on the basis of Pre and Post Merger
	Mean (%)	Rank	Mean (%)	Rank	
PNB	6.84	1	0.49	5	Decrease
BOB	5.18	2	0.97	2	Decrease
OBC	2.73	3	0.76	4	Decrease
PB-Mean	**4.92**		**0.74**		**Decrease**

ICICI	1.52	4	1.92	1	Increase
HDFC	0.37	6	0.47	6	Increase
KMB	1.35	5	0.92	3	Decrease
PvtSB-Mean	**1.08**		**1.10**		**Increase**

Source: Compiled from website of Banks PSB- Public Sector bank, PvtSB- Private Sector Banks

Translation of Table 3

Net Nonperforming Assets to Net Advances Ratio is a proportion of the general greatness of banks propels. It shows the real money related weight on the bank. A NPA are those benefits for which intrigue is past due for over a quarter of a year or ninety days. Net NPAs are proposed by lessening expanding parity of arrangements uncertain toward the finish of the period just as some other intrigue changes, from net NPAs. Higher proportion reflects rising terrible nature of advances Table 3 portrays the image of Net Non-Performing Assets (NPA) to Net Advances Ratio in assigned open and private bank. If there should be an occurrence of open division bank, Net Non-Performing Assets to Net Advances Ratio is lessened for every chosen bank after merger. Yet, it is intensified for ICICI and HDFC banks in assessment of pre-merger. On the off chance that we relate mean of Net Non-Performing Assets to Net Advances Ratio for chose open and private area banks, proportion is declined for open division banks while it enlarged after merger for private part bank.

Table 4: Total Expenditure to Total Income Ratio,

Bank	**Pre-Merger**		**Post-Merger**		**Increase/Decrease Performance on the basis of Pre and Post Merger**
	Mean (%)	**Rank**	**Mean (%)**	**Rank**	
PNB	63.32	6	72.10	3	Increase
BOB	66.41	5	59.03	6	Decrease
OBC	76.43	1	75.21	1	Decrease
PSB-Mean	**68.72**		**68.78**		**Increase**
ICICI	76.12	2	72.22	2	Decrease
HDFC	67.21	4	71.34	4	Increase
KMB	68.03	3	70.28	5	Increase
PvtSB-Mean	**70.45**		**71.28**		**Increase**

Source: Compiled from website of Banks PSB- Public Sector bank, PvtSB- Private Sector Banks

Elucidation of Table 4

An impressive piece of working cost of banks comprises of pay rates to representatives, innovative up shades and branch avocation, especially the new age banks. Despite the fact that these consumptions significance into higher Total Expenditure to Total Income Ratio, in long haul they help the bank in elaborate its arrival to value investors. It is perfect for banks to have a lower proportion as it will improve the benefits of the bank and afterward upgrade comes back to the speculators. The proportion gives savers a reasonable perspective on how expertly the bank is being run – the lower it is, the more moneymaking the bank will be. Changes in the proportion can likewise feature potential issues. In the event that the proportion ascends starting with one period then onto the next, it implies that financial limits are ascending at a higher rate than pay. Table 4 found out about the proportion of Total Expenditure to Total Income in chose open and private bank. If there should arise an occurrence of open division bank, Total Expenditure to Total Income Ratio is decreased for BOB and OBC after merger and increment for PNB. If there should arise an occurrence of Private Banks, it is increased for KMB and HDFC banks conversely of pre-merger and decrease for ICICI. In the event that we compare mean of Total Expenditure to Total Income Ratio for chose open and private segment banks, proportion is expanded for both, open area banks and for private segment bank.

Table 5: Assets Turnover Ratio,

Bank	**Pre-Merger**		**Post-Merger**		**Increase/Decrease Performance on the basis of Pre and Post Merger**
	Mean (%)	**Rank**	**Mean (%)**	**Rank**	
PNB	9.86	3	7.21	6	Decrease
BOB	11.10	1	8.41	4	Decrease
OBC	9.11	5	8.07	5	Decrease
PSB-Mean	**10.02**		**7.90**		**Decrease**
ICICI	10.23	2	9.32	2	Decrease
HDFC	8.14	6	9.04	3	Increase
KMB	9.32	4	10.22	1	Increase
PvtSB-Mean	**9.23**		**9.53**		**Increase**

Source: Compiled from website of Banks PSB- Public Sector bank, PvtSB- Private Sector Banks

Elucidation of Table 5

Resource Turnover occasions how rapidly a bank risks over its bit of leeway through its income, both mindfulness salaries just as non-premium salary. It gauges the capacity of a bank to utilize its advantages for ingeniously produce pay. The higher the proportion assigns that the bank is building up the entirety of its assets expertly to make income Table 5 shows the Assets Income Ratio of chose open and private bank. If there should arise an occurrence of open area bank, Assets Turnover Ratio is diminished for all Public segment banks. If there should arise an occurrence of Private Banks, it is expanded for KMB and HDFC banks in correlation of pre-merger and diminishing for ICICI. On the off chance that we look at mean of Assets Turnover Ratio for chose open and private division banks, it is expanded for private segment bank yet diminished for open area bank.

Table 6: Net Profit Margin,

Bank	Pre-Merger		Post-Merger		Increase/Decrease Performance on the basis of Pre and Post Merger
	Mean (%)	Rank	Mean (%)	Rank	
PNB	6.97	5	9.88	4	Increase
BOB	4.52	6	9.52	5	Increase
OBC	7.21	4	9.04	6	Increase
PB-Mean	**6.23**		**9.48**		**Increase**
ICICI	10.12	3	17.28	2	Increase
HDFC	15.24	1	17.41	1	Increase
KMB	13.14	2	14.37	3	Increase
PV-Mean	**12.83**		**16.35**		**Increase**

Source: Compiled from website of Banks PSB- Public Sector bank, PvtSB- Private Sector Banks

Translation of Table 6

Net revenue is a significant standard to quantify the pays greatness in banks. Expanding benefits is the best showcase that the bank can pay additional items because of which the offer cost will inclination rising. Investors see net revenue efficiently on the grounds that it implies the greatness of the bank that is repeated in its ability in redesigning pay into benefits offered for partners. It is depicted as estimation of salary that is suffering after every single working use, consideration, imposes and supported stock rewards other than shared stock reward is taken from the all-out pay of the bank. A high Net Profit Margin without a doubt demonstrates that the bank has steady and relentless earnings. Table 6 shows the circumstance of Net Profit Margin proportion for chosen banks. It is improved for every single chosen bank after merger, for example both for open just as private bank. After examination mean of Net Profit Margin proportion for chosen open and private segment banks are expanded after merger.

Table 7: Return on Equity,

Bank	Pre-Merger		Post-Merger		Increase/Decrease Performance on the basis of Pre and Post Merger
	Mean (%)	**Rank**	**Mean (%)**	**Rank**	
PNB	13.02	3	15.24	2	Increase
BOB	12.34	4	11.42	5	Decrease
OBC	13.63	2	10.87	6	Decrease
PB-Mean	**12.99**			**12.51**	**Decrease**
ICICI	8.12	6	12.30	4	Increase
HDFC	16.41	1	18.11	1	Increase
KMB	12.14	5	14.06	3	Increase
PV-Mean	**12.22**		**14.82**		**Increase**

Source: Compiled from website of Banks PSB- Public Sector bank, PvtSB- Private Sector Banks

Understanding of Table 7

Profit for Equity quantifies how much the investors earned for their interest in the bank. This proportion demonstrates how productive a bank is by contrasting its overall gain with its normal investors' value. On the off chance that a bank can assemble stores at a lower rate and advance these to clients to produce more significant yields than the expense of stores, it can make extra incomes that accumulate to investors as expanded value. The higher the proportion rate, the more proficient the bank is in profit and using its value base to produce better return is to financial specialists. Table 7 portrays the proportion of Return on Equity of chose open and private bank. If there should arise an occurrence of open area bank, Return on Equity is expanded for PNB in Public segment banks and decline for BOB and OBC. In the event of Private Banks, it is expanded for all chosen private part banks for example ICICI, KMB and HDFC. In the event that we look at mean of Return on Equity for chose open and private part banks, it is expanded for private segment bank however diminished for open area bank.

Table 8: Interest Expended to Interest Earned

Bank	Pre-Merger		Post-Merger		Increase/Decrease Performance on the basis of Pre and Post Merger
	Mean	Rank	Mean	Rank	
PNB	0.26	2	0.27	2	Increase
BOB	0.23	4	0.26	3	Increase
OBC	0.16	5	0.19	5	Increase
PSB-Mean	**0.22**		**0.24**		**Increase**
ICICI	0.25	3	0.21	4	Decrease
HDFC	0.28	1	0.29	1	Increase
KMB	0.13	6	0.18	6	Increase
PvtSB-Mean	**0.22**		**0.23**		**Increase**

Source: Compiled from website of Banks PSB- Public Sector bank, PvtSB- Private Sector Banks

Understanding of Table 8

This proportion estimates intrigue cost as a level of intrigue pay. It quantifies the capacity of the bank to meet the premium use on stores from the premium pay from propels. It likewise shows the adept administration of stores and advances of the bank. On the off chance that the proportion is under 1, the bank is creating enough enthusiasm from advances to meet its advantage commitments of stores which connotes sound liquidity of the bank. Table 8 shows the Interest Expended to Interest Earned of chosen open and private bank. In the event of open part bank, Interest Expended to Interest Earned is expanded for all chosen Public area banks. If there should arise an occurrence of Private Banks, it is expanded for KMB and HDFC and diminishing for ICICI. In the event that we think about mean of Net Profit Margin proportion for chosen open and private division banks, both are expanded after merger.

Testing of Hypothesis

Null Hypothesis: There is no significant difference Between pre-merger and post -merger Ratio of acquiring bank.	T-value	P-value 95% CF.L	Null Hypothesis Accept/Reject
Capital Adequacy Ratio	1.925	2.571	Accept
Debt Equity Ratio	-1.122	2.571	Accept
NPA to Net Advances Ratio	-1.864	2.571	Accept

Total Expenditure to Total Income Ratio	0.187	2.571	Accept
Assets Turnover Ratio	-1.403	2.571	Accept
Net Profit Margin	3.661	2.571	Reject
Return on Equity	1.044	2.571	Accept
Interest Expended to Interest Earned	0.336	2.571	Accept

Findings and Conclusions

The principle finding of the investigation is that if there should be an occurrence of open area bank mean of the Capital Adequacy Ratio, Total Expenditure to Total Income Ratio, Net Profit Margin and Interest Expended to Interest Earned proportion is improved in examination of Pre-Merger execution additionally diminishing pattern of mean is likewise found for Debt Equity Ratio, NPA to Net Advances Ratio, Assets Turnover Ratio, Return on Equity. If there should arise an occurrence of private segment bank mean of the Capital Adequacy Ratio, (NPA) to Net Advances Ratio, Total Expenditure to Total Income Ratio, Assets Turnover Ratio, Net Profit Margin, Return on Equity and Interest Expended to Interest Earned proportion is expanded in examination of pre-merger execution, anyway mean of just Debt Equity Ratio is diminished. Testing of speculation presumes that there is no critical distinction in the presentation of pre and post-merger of chose banks aside from in the event of Net Profit Margin on the grounds that determined estimation of t is more prominent than arranged worth subsequently invalid theory is dismissed in every single other case classified worth is more noteworthy than determined worth that is the reason all theory acknowledged with the exception of in the event of net overall revenue. Thus, it is presumed that all proportion is improved aside from net revenue for example execution of post-merger in correlation of pre-merger is factually improved. Hence, based on above investigation it is presumed that the post-merger execution of chosen bank is improved than pre-merger execution.

References

Ahmad Ismail, Ian Davidson & Regina Frank (2009),"Operating performance of European bank mergers", The Service Industries Journal, Volume 29, Issue 3, pp. 345-351

Akhil Antony K. (2011), "Post-merger profitability of selected banks in India", International Journal of Research in Commerce, Economics and Management, Volume 1, Issue 8, pp. 133-135

ASSOCHAM Report, (2012), "Merger and Acquisition Newsletter", ASSOCHAM National M&A Council, Volume 1, pp. 1-10.

Barnabas, N., and Mekoth, N. (2010), "Autonomy, market orientation and performance in Indian retail banking", Asia Pacific Journal of Marketing and Logistics, Volume22, Issue 3, pp. 330 350.

Bhattacharyya Surajit and ChatriAnkit (2012) "Efficiency of Indian Commercial Banks: Post Reform Experience from Mergers and Acquisitions", The Indian Economic Journal, Volume 60, Issue 3, pp 1-28.

Bwisa, H. M. (2008). "How to Write a Statement Problem, Your Proposal Writing Companion", Retrieved on 14th March 2012, from http://www.professorbwisa.com /new/free_ downloads / problem_statement.pdf

DuvvuriSubbarao (2013), "Structure of banking in India-looking ahead by looking back", speaking note at the FICCI-IBA, Annual Banking Conference, Mumbai, August 2013.

Goyal K.A. and Joshi Vijay (2011), "Merger and Acquisition in Indian Banking Industry: A case study of ICICI Bank Ltd." International Journal ofResearch in Management, Volume 2, Issue 2, pp. 30-40.

Hoang, Thuy Vu NgaLapumnuaypon, Kamolrat (2007), "Critical Success Factors in Merger and Acquisition Projects- A study from the perspectives of advisory firms", September 2007, Master Thesis.

KaurPardeep, KaurGian (2010), "Impact of mergers on the cost efficiency of Indian Commercial Banks" Eurasian Journal of Business and Economics, Volume 3, Issue 5, pp. 27-50.

Khan Azeem, A. and Ikram,S. (2012), "Testing the Efficiency of Indian Stock Market Vis-À-Vis

Merger and Acquisitions - A Study of Indian Banking Sector", International Journal of latest trends in Finance, economicsand Science, Volume 2, Issue 2, pp. 155-168.

Khawaja Khalid, HaimHilman and Dileep Kumar M.(2012), "Get along with quantitative Research Process", International Journal of Research inManagement, Volume 2, Issue 2, pp 15-29.

LehtoEero&Bockerman Petri (2008), "Analyzing The Employment Effects Of Mergers And Acquisitions", Journal Of Economic Behavior & Organization, 68, 112–124.

Manish Khanna and SaurabhKaushal (2013),"Growth of Banking Sector in India: A Collective Study of History and its Operations", Asian Journal ofAdvanced Basic Science, Volume 2, Issue 1, pp.36-45.

MehrozNidaDilshad (2012), "Profitability Analysis of Mergers and Acquisitions: An Event Study Approach", Business and Economic Research, 2013, Volume 3, Issue 1, pp. 38-51.

Prasad K.V.N. and Ravinder G. (2012), "A Camel Model Analysis of Nationalized Banks in India", International Journal of Trade and Commerce- II, Volume 1, Issue1, pp. 23-33.

Prasuna D G (2013), "Performance Snapshot 2003-04", Chartered Financial Analyst, Volume X, Issue 11, pp.6-13.

Raiyani, J. R. (n.d.) (2010), "Effect of mergers on efficiency and productivity of Indian banks : A CAMELS analysis", Asian Journal ofManagement Research, Volume-8, pp. 772–794.

Reddy Maheshwara D. and Prasad K.V.N (2009), "Evaluating Performance of Regional Rural Banks: an Application of CAMEL Model",

S. Nirmala and Aruna,G. (2013), "A Literature Review of Mergers and Acquisitions", International Journal of Management & InformationTechnology, Volume 5, Issue 1, pp. 435-439.

SinhaPankaj& Gupta Sushant. (2011), "Mergers and Acquisitions: A Pre-Post Analysis for the Indian Financial Services Sector

TiwariAmdhesh Kr (2011), "Mergers and Acquisitions in Indian Banking Industry - A Case Study", APJRBM, Volume 2, Issue 2, pp.56 - 76.

www.iba.org.in IBA (Indian Banks Association) and www.rbi.org.in

Zhu, J. L. (n.d.) (2011), "A New Measure for Shareholder Value Creation and the Performance, (November 2011), Available at SSRN: http: // ssrn.com / abstract = 1968931 orhttp: // dx.doi.org / 10.2139 / ssrn.1968931.

Endnotes:

1) https://www.ibef.org/industry/banking-presentation

2) Amit Mittal (2016) M&A in the Indian Banking Sector: An analysis of private and public bank transactions

3) NazimUllah,Junaidah Abu Seman (2018) Mergers and Acquisitions (M&A) in Banking Sector: A Review of the Literature

4) Vijay Joshi, Krishn A Goyal (2012) Indian Banking Industry: Challenges And Opportunitie