



Performance Appraisal Of Public And Private Sector Banks

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Abstract: This paper is attempt to analyse how domestic banks performed during the fiscal year (2020 - 2023) that go through issues affecting the sector, in general, while also explaining how the future of banking performances. The study included performances of 19 publicly listed state owned banks and SBI associate banks. In this paper performances of all the listed private sector banks have also been covered. Banks have since existence playing vital role in channelise of savings into productive purpose. As intermediaries, banks facilitating the flow of savings into investment for industrialisation of economy. But over the years the significance of banks undergone with changes in their functions like financial services. Now banks are not limited with accepting of deposits and disbursement of loans and advances.

Keywords: CASA; current account and saving account; PSB; public sector banks; CAR; capital adequacy ratio; RWA; risk weighted assets; NPA; non- performing assets; ROA; return on assets, IBA; Indian banking associations.

Introduction

Solid monetary framework is a significant mark of sound economy of the Country, and Banking in India arose through a few stages since freedom. To make the banks monetarily reasonable and monetary solid, administration of India started major reformative measures like liberation of financing cost, prudential standards for money acknowledgment, provisioning, capital sufficiency, changed the guideline for the advancement of private area banks and unfamiliar banks, reception of computerized framework, consolidations and securing and accentuation on client situated administrations. Owing the industrialisation of economy monetary frameworks are defied with different kinds of dangers, similar to credit chances, liquidity hazard, market and loan cost risk which are corresponded and should be controlled in proactive, effective and coordinated way in order to keep up with sound position. Indian financial area has seen numerous positive advancements in the new by the approach producers and the monetary area normalities power to acquire an improvement the administration and control of monetary framework.

A solid, economical and feasible financial framework assumes a significant part in the general improvement

of an economy. Banking area has contributed in getting a progressive change the generally speaking improving area on the way of monetary development. As a matter of fact, it is the foundation of the economy and one of the critical markers to evaluate the degree of improvement of any economy. Execution of the financial area is a successful measure and pointer to really look at the exhibition of any country generally. The financial changes were started in India as follow up proportion of monetary area changes and financial progression in the country. The confidential area bring the existence line of the economy has been given due weightage in the monetary area changes. More seriousness, efficiency and proficiency and adherence to worldwide bookkeeping norms were the essential goals behind the commencement of change in Indian financial industry.

The present administrative framework in financial area is a significant improvement over the previous framework as far as recurrence, inclusion and concentration as likewise the devices utilized. Ordinarily the BASEL-II for successful management has proactively been stuck to and BASEL III standards at a phase of execution from first walk 2019.

1.1 Objectives of the review

To know the capital sufficiency status among the homegrown banks.

To review the situation with resources nature of chosen banks.

To review the administration effectiveness of chosen banks.

To dissect the profit nature of chosen banks.

To realize the liquidity position of banks.

Review of literature

Kiran (2018) measured the financial health of top public and private sector banks operating in India through using the CAMEL model. Authors in their study selected seven banks from public sector and four banks from private sector. They have used data for the period of 2013–2014 to 2016–2017. The results of their study show that private sector banks outperform public sector banks and first 4 ranks go to the credit of all the selected private sector banks. Study suggests that private sector banks have to improve performance on liquidity aspect and public sector banks have to focus on capital adequacy, assets quality, managerial efficiency and earnings capacity.

Kaur and Priya (2017) discovered on the assessment of PNB and Bank of Baroda through CAMEL Model. This secondary based study covered the periods of 5 years (2011–2016) and it was analysed by calculating six ratios of CAMEL Model. To know the financial performance of these two selected banks T-Test has been used by authors. Authors find out that financial performance of Bank of Baroda reported better over the performance of Punjab National Bank.

Rao (2017) evaluated the performance of IDBI LTD through using different ratio such as CASA, and financial ratio etc. He has concluded that the solvency position of this bank found satisfactory and up-to average prevailing in the industry. However he suggested that banks should pay attention on efficient employment of funds. Moreover ROA also indicates declining trends.

Mustafa and Taqi (2017) evaluated the performance of PNB through CAMEL model. They have concluded that bank is following the rules prescribed by Government for the development of economy. The bank has done well in respect of financial efficiency.

Hundal and Singh (2016) analysed the performance of PSB,s and private sector banks in India and find out that private sector banks are concentrating into maximise their income rather than to welfare while the PSBS are focusing with growth and development of industry. PSBS are lending liberally in form of credit to poor section of society.

Ozbek (2015) conducted study to know the performance of public sector banks in turkey for the period of 2005–2014. He has found that the Vakrf Bank (VB) reported efficiency at top till 2012. And then from 2013, Zirrat Bank (ZB) showing the best performance in turkey. For the period 2005–2012 the first place occupied by Vakif Bank (VB), and Halk Bank (HB) was stood at the second position and it is followed by ZB for the third position.

Karri (2015) made effort to evaluate the financial performance of two banks namely Bank of Baroda and Punjab National Bank. Study was based upon their financial characteristics to measure the relative performance of Indian banks. Authors have applied the CAMEL Model to know the capital adequacy, assets quality, managerial efficiency, earning positions and liquidity. It has been concluded by authors that there is no much difference between the performances of these two selected banks.

Nathwani (2015) made an attempt to study the performance of six selected banks three each from Public (SBI, Bank of Baroda and PNB) and Private sectors banks (ICICI, HDFC and AXIS bank) for a period of 10 years (2004–2005 to 2013–2014). Evaluation of selected banks made by author with the CAMEL Model to know the performance of six parameters (capital adequacy, assets quality, managerial efficiency, earning positions and liquidity). In this study it has been concluded by author that the performances of public sector banks was poor as comparison to private sector banks.

Kumar (2014) measured the efficiency, profitability and overall performance of banks from public and private for the period of 2007–2008 to 2012–2013. CAMEL and DEA methods have been applied by author to know the performance of banks. Analysis of financial performance of these selected banks revealed that on an average private sector banks are much ahead of public sector banks. In this study it was concluded that CAR of ICICI Bank, AXIS bank and Yes Bank are stronger than other banks. The analyses on the basis DEA revealed that SBI, HDFC, ICICI banks are better among the selected banks. These are utilising their inputs and outputs more effectively as compared to other banks. It has been find out by author that SBI, PNB and Corporation Bank reported remarkable improvements whereas other banks like Central bank of India, Vijaya Bank, Punjab and Sindh Bank have failed to any significant improvement.

Karthikeyan and Shangari (2014a, 2014b) tried to study the performance of Indian banks for the period of 2009 to 2013. In their study they have selected top six banks according to their net profit, total assets and market capitalisation during the year 2013. Authors applied CAMEL model to find out the desired results according to their objectives of the study. It has been find out in this study that performance of private sector banks excess over the private sector banks.

Rao (2014) used CAMEL model in order to analyse the performance of public as well as private sector banks. He has concluded that HDFC private sector bank is performed better while SBI performed better for long term investors. In the conclusion it has been found that private sector bank HDFC performed better than any public sector banks.

Mishra (2011) conducted research on banking performance for the period of 12 years, CAMEL analysis has been utilised for the assessment of banks and revealed that the performance of private banks were better than the public sector banks in indicators of performance.

Makkar and Shweta (2013) assessed the private and public sector banks performance. The CAMEL analysis has been applied to make comparison according to different indicators of financial performance. Chaudhry and Singh (2012) analysed the performance of Indian banks corresponding to reforms. The banking reforms emerge with different products and services in form of innovation.

Bodla and Verma (2006a) studied the earning quality ratio of schedule commercial banks in India on lines of CAMLE model for the period of 1991–1992 to 2005–2006. The reference period divided by authors into three sub groups 1992–1995, 1996–2000 and 2001–2006. In this study it has been found that foreign banks have edge over their domestic counterparts in terms of operating profit to average working funds ratio, spread to total assets ratio and non interest income to total income ratio. Public sector banks enjoy the same in terms of net profit to average assets ratio and interest income to total income ratio. According to this study the banks operating in India have shown improvement in their fee based income.

Suresh (2008) conducted research to analyse the key indicators of financial performance of nationalised banks and SBI (Associated banks) by applying CAMEL Model. Time period taken in this research from 1997–1998 to 2006–2007 and study revealed that the performance of these banks affecting by NPA, s.

Bhayani (2006) studied the impact of banking sector reforms on four private sector banks. In this study author analysed the performance of new banks in private sector with the CAMLE Model. In this study four leading banks ICICI, HDFC, UTI and IDBI have been selected as a sample. This study find out that aggregate performance on basis of CAMLE model parameters IDBI is at top as compared to other selected banks.

Bodla and Verma (2006b) studied the performance of SBI and ICICI through CAMLE for the period 2001–2002 to 2004–2005. Authors have found that SBI has an edge over its counterpart ICICI in terms of Capital Adequacy. However vice-versa is true regarding other parameters like assets quality, earning capacity and management quality. The liquidity position of both banks found sound and does not different significantly.

Methodology

This study has been based on financial model (CAMEL) and individual rankings have been recorded on indicators of performance. Secondary data has been collected (2020– 2023) from various annual reports of RBI, and from reports of Indian Banking Association. For the purpose of study top 5 banks (having highest ratio of concerning indicators in related financial year) have been categorised into two categories, namely Public Sector Banks and Private Sector Banks. Performance of selected banks will be analyses with five elements of CAMEL model which stands for Capital Adequacy, Assets Quality, Management Efficiency, Earnings Quality and Liquidity.

CRAR

Capital Adequacy Ratio (CAR) also referred to as Capital to Risk (Weighted) Assets Ratio (CRAR) is an important part for assessment of banks capital. It means banks should have sufficient capital provide a stable resource to absorb any losses arising from the risks in its business. The Reserve Bank of India made compulsory for banks to maintain CAR of 9% on an ongoing basis. Furthermore as per the BASEL III accord, formulated by Switzerland Bank for International Settlements (BIS) whose key objective is to promote the monetary and financial stability across the global banking system, all Banks needs to maintain tier I capital (comprises of equity and reserves) at 7% of Risk Weighted Assets (RWA), besides they are also required to have a capital conservation buffer of 2.5% of RWA. CRAR can be calculated at by dividing the sum of tier I and tier II capital by the aggregate of RWA. Mathematically, it can be expressed as: $CAR = \frac{(Tier\ I + Tier\ II)}{RWA}$.

Tier I capital includes equity capital and free reserves

Tier II capital comprise of subordinate debt of 5–7 years tenure, revaluation reserves, investment reserves account, hybrid debt capital instruments and undisclosed reserves and cumulative perpetual preference shares. While a higher CAR means that banks is better against any future adverse situation, on the other hand if it is so much high it could also mean that bank is not doing efficiently. BASEL III raises the limit of CAR 11.9% from 9% and in this regard RBI extended the deadline to implement to 31st March 2019 instead of earlier 31st March 2018

BASEL III requirement given below

Regulatory capital	As % to RWA
Minimum common equity tier I Ratio	5.5
Capital conservation buffer (comprised of common equity)	2.5
Minimum common equity tier-I ratio plus capital conservation buffer {(i)+(ii)}	8.0

Additional tier I capital 1.5

Minimum tier 1 capital Ratio [(i)+(iv)] 7.0

Tier 2 capital 2.0

Minimum total capital ratio (MTC) 9.0

Minimum total capital ratio plus capital conservation buffer [(vii)+(ii)] 11.5

Source: RBI

Capital Adequacy Ratio (%) on the basis of BASEL III

Capital Adequacy: On the basis of CAR/CRAR Indian bank enjoys the top rank among the PSU Banks with an average of 13.06 for the said years and it followed by SBI and VIJAYA Bank with average CAR with 12.71 and 12.61, respectively. Indian bank has consistently improved its capital adequacy ratio since 2015 when it stood at 12.86 however in 2018 it has reported lower ratio as compared to previous financial years. Interestingly all selected banks except SBOP (merged with SBI) managed to have CAR of over 11% in the period under review. Among the private sector banks, it is the new born Bandhan Bank that tops the rankings with a figure of 21.71 and it is followed with a huge gap by ICICI Bank Ltd, Kotak Mahindra, and Yes Bank with figure of 17.34, 17.12 and 16.37, respectively. It is clear that private banks enjoy better CAR as compared to state owned banks. Furthermore Table 1 reveals that all selected private sector banks under period of study fulfilled the BASEL III norms regarding the capital adequacy.

Table 1 Capital adequacy ratio (%) on the basis of BASEL III

Top 5 Public Sector Banks (Selected on the basis of highest CAR Among banks)

Ranks	Name	2020	2021	2022	2023	Average
1	Indian bank	12.86	13.20	13.64	12.55	13.06
2	SBI	12.00	13.12	13.14	12.60	12.71
3	Vijaya bank	11.13	12.58	12.86	13.90	12.61
4	Canara bank	10.56	11.08	13.11	13.22	11.91
5	SBOP(merge with SBI)	12.06	11.50	12.43	NA	09

Top 5 Private Sector Banks (Selected on the basis of highest CAR Among banks)

1	BANDHAN BANK	NA	29.01	26.36	31.48	21.71
2	ICICI BANK LTD	17.02	16.54	17.39	18.42	17.34
3	KOTAK MAHINDERA BANK LTD	17.17	16.34	16.77	18.22	17.12
4	YES BANK	15.6	16.5	17	18.40	16.87
5	IDFC BANK	NA	22.04	18.9	18.00	14.73

Source Reports of RBI and IBA

Advances to Add up to Resources Proportion: This is another importance proportion which is thought of as significant while assessing banks exhibitions based on CRAR is advances to add up to resources. Truth be told, the proportion is a vital part of the well known CAMEL model. The higher the proportion the better it is as a higher proportion shows that the bank is forcefully loaning, which thus could help its benefit. Here, absolute resources incorporates receivables, through worth of all out resources avoids re-esteemed resources. In Table 2 when contrasted based on Advances with Absolute Resources Proportion Allahabad Manage an account with a normal of 69.12 arose as the best bank among all chosen PSU Banks during time of study and it is trailed by Partner bank, Andhra bank and Association bank of India with a normal of 66.01, 64.14 and 63.89, separately. The Resources proportion of a substance means that it has not had the option to actually send its resources. It could likewise be that it has been moderate in loaning arrangements. Among the confidential area banks, The Luxmi Vilas Bank LTD at top with a normal 67.44 and it is trailed by City Association Bank LTD, The KarurVysya Bank LTD AND DCB Bank LTD with a normal of 66.99, 66.82 and 66.82, separately. As far as this proportion PSB as well as Confidential area banks performed is same example.

Table Advances to total assets ratio

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Top 5 Public Sector Banks						
Ranks	Name	2020	2021	2022	2023	Average
1	ALLAHABAD BANK	66.00	63.5	63.60	83.36	69.122
			3			5
2	SYNDICATE BANK	66.87	65.3	66.76	65.03	66.012
			9			5
3	ANDHRA BANK	68.02	65.4	61.61	61.55	64.147
			1			5
4	UNION BANK OF INDIA	66.99	66.0	63.28	59.24	63.892
			6			5
5	ORIENTAL BANK OF COMMERCE	63.02	62.0	62.32	58.44	61.467
			9			5
Top 5 Private Sector Banks						
1	THE LUXMI VILAS BANK LTD	66.19	68.5	67.33	67.73	67.44
			2			
2	CITY UNION BANK LTD	64.46	66.2	67.57	69.73	66.99
			1			
3	THE KRUR VYSYA BANK LTD	67.93	66.2	66.19	66.93	66.82
			6			
4	DCB BANK LTD	64.87	67.5	65.78	67.28	66.38

5 HDFC BANK LTD 61.90 62.7 64.20 61.87 62.67

Source: Reports of RBI and IBA

Resources Quality: Resources quality holds key to a banks very survival. For any serious

hindrance in resources could risk bankruptcy of banking. Resources quality likewise holds importance according to a banks perspective as any future misfortunes must be discounted against those which thus could hurt its future benefits. Resources quality is assessed utilizing things like degree of Non-Performing advances/Resources (known as NPA), arrangements proportion, and circulation of resources and so on this study utilizes proportion like Net NPA to Net Advances (%); Net NPA to Add up to Resources (%) and Absolute Venture to Add up to Resources (%) to examine how banks have performed on this specific.

NNPA to Net Advances: NPA issue impacted the financial execution especially significant migraine in the event of public area banks. This issue has been become serious that in the event that soon a compelling component isn't formulated it might really compromise the actual presence of a couple of currently debilitated state possessed banks. Table 3 uncovers that the bank which has shown improvement over its companions among public area banks is State Bank of India with a normal of 3.84% and it is trailed by Vijaya Bank, Indian Bnak, Bnak of Baroda and Partner manage an account with a normal 3.85%, 3.91%, 4.29% and 4.46 separately. Anyway it is shockingly that SBI had 5.73% Net NPA after consolidation in 2018. Furthermore, confidential areas have improved with regards to managing the NPA issue. Truth be told, as information show, NPA is not really an issue for private area banks. Coming to positioning Bnadhan bank as another loan specialist takes the high level to deal with its NPA and it is trailed by HDFC Bank, Indusind bank, RBL bank and DCB bank.

Table 3 Net NPA as (%) of net advances

Top 5 Public Sector Banks

Ranks	Name	2020	2021	2022	2023	Average
1	SBI	2.12	3.81	3.71	5.73	3.84
2	VIJAYA BANK	1.91	4.81	4.36	4.32	3.85
3	INDIAN BANK	2.50	4.97	4.39	3.81	3.91
4	BANK OF BARODA	1.89	5.06	4.72	5.49	4.29
5	SYNDICATE BANK	1.90	4.48	5.21	6.28	4.46

Top 5 Private Sector Banks

1	BANDHAN BANK NA	0.08	0.36	0.58	0.25
2	HDFC BANK LTD	0.25	0.28	0.33	0.40
3	INDUSIND BANK	0.31	0.36	0.39	0.51
4	RBL BANK	0.27	0.59	0.64	0.78

5	DCB BANK	1.01	0.75	0.79	0.72	0.81
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Source: Reports of RBI and IBA

NNPA to Add up to Resources: Continuing on the following significant determinant to concentrate on the resources nature of a bank is Net NPPA to Add up to Resources (%). Clearly lower the proportion of this is ideal for the banks.

Table 4 uncovers that the image is same here in the event of public area banks the Bank of Baroda is at top in positioning to deal with the NPA relating to add up to Resources and revealed beneath 3%. Furthermore, it is trailed by Andhra Endlessly bank of India these banks revealed its proportion under 4%. On different hands Bank of Maharashtra and Allahabad Bank recorded its proportion over the 4% which is 4.17% and 4.35%, individually. In the event of private area banks the story is same that these banks performed better compared to public area banks. Table appearance that all chosen banks have underneath 1% NNPA to TA%. Bandhan bank as another bank has just 0.15 while it is trailed by IDFC bank, Indusind bank LTD, YES bank and RBL bank openly.

Table 4 Net NPA to total assets (%)

Top 5 Public Sector Banks

Ranks	Name	2020	2021	2022	2023	Average
1	BANK OF BARODA	1.13	2.89	2.60	3.26	2.47
2	ANDHRA BANK	1.99	3.01	4.66	5.21	3.71
3	BANK OF India	2.18	4.59	4.04	4.62	3.85
4	BANK OF MAHARASTRA	2.82	4.24	3.48	6.16	4.17
5	ALLAHABAD BANK	2.63	4.29	5.66	4.83	4.35

Table 4 Net NPA to total assets (%) (continued)

Ranks	Name	2020	2021	2022	2023	avg
Average Top 5 Private Sector Banks						
1	BANDHAN BANK	0.00	0.05	0.20	0.38	0.15
2	IDFC BANK	0.15	0.18	0.21	0.24	0.19
3	INDUSIND BANK LTD	0.19	0.23	0.25	0.35	0.25
4	YES BANK	0.06	0.17	0.50	0.41	0.28
5	RBL BANK	0.14	0.32	0.39	0.50	0.33

Source: Reports of RBI and IBA

Total investment of total assets ratio% (TI to TA)

This proportion make sense of the degree of double-dealing of asset as a speculation and a higher proportion implies that either bank is safely for loaning or it is barely an adequate number of takers are not accessible for its credits and advances. Furthermore, it cloud be because of rising NPA levels and thus bank has chosen to safeguard itself, however this thusly could influence the productivity. Table 5 uncovers that oriental bank

of business improved among the chose PSB,s. it is at top in positioning with a normal of 26.97 and it is trailed by Allahabad Bank, Organization Bank, Bank of India and Bank of Baroda. Bank of Baroda revealed exceptionally horrible showing among these manages an account with a normal of 18%.

Table Total investment /Total assets ratio

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Top 5 Public Sector Banks							
Ranks	Name		2020	2021	2022	2023	Average
1	ORIENTAL	BANK OF COMMERCE	26.91	27.62	23.40	29.95	26.97
2	ALLAHABAD BANK		24.21	23.83	23.27	26.8	24.52
3	SYNDICATE BANK		22.87	22.28	21.89	24.50	22.88
4	BANK OF INDIA		19.36	19.49	20.41	22.50	20.44
5	BANK OF BARODA		16.34	17.94	18.66	22.66	18.9
Top 5 Private Sector Banks							
1	KOTAK	MAHINDRA BANK LTD.	27.03	26.66	21.00	24.36	24.76
2	ICICI BANK LTD.		24.47	22.26	20.93	23.08	22.68
3	INDUSIND BANK LTD.		20.47	23.83	20.54	22.59	21.85
4	CITY UNION BANK LTD.		21.06	21.46	19.94	19.22	20.42
5	BANDHAN BANK		0.00	19.02	18.24	18.79	14.01

Source: Reports of RBI and IBA

In the event of private area Kotak Mahindra bank detailed execution at top in positioning among the confidential area banks and it is trailed by ICICI Bank LTD, INDUSIND Bank Ltd, City association Bank Ltd and Bandhan Bank. Anyway in this boundary PSB performed better compared to private area banks.

The board productivity: The executives proficiency is one more pointer to assess a bank's exhibition. Proportion likes all out resources for all out store; business per representative; and benefit per worker can be useful to know the productivity and viability. administrative choices. Since absolute resources for complete store measure the effectiveness and capacity of the banks the board in changing over the stores accessible with the bank (counting request stores, saving stores and terms stores). Absolute resources/complete store (%): Table 6 uncovers that biggest public area bank SBI is at top with first positioning and normal of 80.54. Also, it is trailed by UBI, Organization Bank, Allahabad bank and OBC bank. The exhibition of chosen banks ranges somewhere in the range of 75 and 80.50. Then again table uncovers that IDFC bank it at top in positioning alongside a normal of 196.93 and it is trailed by ICICI Bank, Indusind Bank LTD, Hub Bank and YES bank.

Table Total assets /Total deposit (%)

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Top 5 Public Sector Banks						
Ranks	Name	2020	2021	2022	2023	Average
1	SBI	82.45	84.57	76.83	78.33	80.54
2	UNION BANK OF INDIA	80.68	78.01	75.71	83.81	79.55
3	SYNDICATE BANK	79.38	76.94	76.63	84.19	79.28
4	ALLAHABAD BANK	77.49	75.94	74.68	84.54	78.16
5	ORIENTAL BANK OF COMMERCE	71.20	71.26	71.90	88.85	75.80
Top 5 Private Sector Banks						
1	IDFC BANK	0.00	556.02	123.20	108.50	196.93
2	ICICI BANK LTD	107.18	103.28	94.73	91.34	99.13
3	INDUSIND BANK LTD	92.79	95.07	89.34	95.60	93.20
4	AXIS BANK LTD	87.17	94.64	90.03	96.91	92.18
5	YES BANK	82.86	87.91	92.57	101.40	91.18

Source: Reports of RBI and IBA

Business per worker is a mark of assessment by which execution of representative can be estimated. In this normal measure of income produced by per representative is estimated. What's more, it very well may be determined by separating absolute business by the all out number of representatives during the monetary year. Since higher the proportion the better it is for banks. Table 7 uncovers that IDBI LTD appreciates highest level as far as representatives execution which is a normal of 24.40 Cr , curiously IDBI has reliably declined in most recent four years and in front of second position is Bank of India (19.08) Cr. But Maharashtra Bank all chose banks showing decreases in the business per representative in most recent four years.

Business per worker (Cr): Table 7 uncovers that YES bank is at top in execution of their representative with 17.86 cr and it followed by IDFC, Hub BANK, The South Indian Bank and The Government Bank. Government bank shows extremely terrible showing in examination of one more banks in example concentrate on it announced under 10 crore. Benefit per worker shows the benefit acquired by per representative. It is a critical marker to know the efficiency of banks. Is can be determined by partitioning the Benefit after Assessment with all out headcount of bank during financial year. Association bank of India is the top in positioning to create benefit of their worker which is multiplied of other chose banks and it is trailed by Indian bank, SBI, Bank of Baroda and Vijaya Bank. Vijaya bank other than at fifth position however consistently detailed benefit in vertical patterns in most recent four years. Yet, strangely Table 8 features that keep declining in benefit per representative if there should arise an occurrence of Association Bank of India which is at top in a normal.

Table 7 Business per employee (Cr)

Top 5 Public Sector Banks

Ranks	Name	2020	2021	2022	2023	Average
1	IDBI LTD.	26.21	25.18	23.45	22.77	24.40
2	BANK OF INDIA	20.69	17.96	19.40	18.29	19.08
3	COPORATION BANK	19.14	18.79	19.58	16.63	18.53
4	BANK OF MAHARASTRA	15.60	18.02	18.40	18.07	17.52
5	ORIENTAL BANK OF COMMERCE	17.43	16.89	17.90	16.18	17.1

Top 5 Private Sector Banks

1	YES BANK	16.86	17.33	15.96	21.30	17.86
2	IDFC BANK	NA	28.78	21.32	17.23	16.83
3	AXIS BANK LTD.	13.17	14.84	14.00	14.84	14.21
4	THE SOUTH INDIAN BANK	11.54	12.55	14.84	16.32	13.81
5	THE FEDERAL BANK LTD.	11.15	12.03	14.66	NA	9.46

Source: Reports of RBI and IBA

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Table 8 Profit per employee

Top 5 Public Sector Banks

Ranks	Name	2020	2021	2022	2023	Average
1	UNION BANK OF INDIA	15.98	12.09	10.38	6.91	11.34
1	INDIAN BANK	4.95	4.00	7.00	6.00	5.48
2	SBI	6.02	4.70	5.11	2.43	4.56
3	BANK OF BARODA	7.00	10.00	0.03	0.04	4.26
4	VIJAYA BANK	3.00	3.00	5.00	5.00	4.00

Top 5 Private Sector Banks

1	YES BANK	20.96	20.96	20.00	23.00	21.23
2	HDFC BANK LTD.	10.00	15.00	16.00	20.00	15.25
3	INDUSIND BANK LTD.	9.38	9.92	11.33	14.26	11.22
4	ICICI BANK LTD.	16.00	14.00	12.00	NA	10.5
5	CITY UNION BANK LTD.	9.00	10.00	11.00	11.10	10.27

Source: Reports of RBI and IBA

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Table 8 uncovers the presentation of private area banks as far as benefit per worker. Indeed bank is at top among the chose private area banks and it is trailed by HDFC, INDUSIND Bank, ICICI Bank and CITY association bank. But ICICI Bank LTD all leftover banks showing expanding patterns in benefit per worker

in concentrate on period. Anyway the exhibition of private area banks is superior to the public area banks.

Procuring quality: The nature of profit is a significant boundary utilized for understanding whether a bank has gotten its profit from center exercises or the equivalent got a lift from other pay or non-center exercises. Net revenue edge versus Spread: Net Revenue Edge (NIM) is the contrast between the premium pay and the premium exhausted as level of all out resources. Higher NIM shows bank's capacity in keeping its revenue outgo by virtue of stores, credit from RBI and other long haul and transient advances low. It could likewise mean the bank is procuring higher premium pay on its resources (through loaning). Numerically it tends to be determined as: $NIM = (\text{Premium pay revenue costs}) / \text{premium procuring resources}$.

For this study we have thought about Spread as level of complete resources. Based on positioning in open area banks Table 9 uncovers that SB of Bikaner (Presently converged with SBI) tops the positioning among the chose banks during time of study and it is trailed by Andhra bank, SB of Hyderabad (presently converged with SBI), Allahabad bank and Indian Bank. Table 9 Spread as % of assets

Top 5 Public Sector Banks

Ranks	Name	2020	2021	2022	2023	Average
1	State bank of Bikaner	2.83	2.99	2.48	2.17	2.61
2	Andhra bank	2.45	2.66	2.49	2.62	2.55
3	State bank of Hyderabad	2.84	2.79	2.33	2.13	2.52
4	Allahabad Bank	2.72	2.50	2.99	1.87	2.52
5	Indian bank	2.31	2.18	2.36	2.48	2.33

Top 5 Private Sector Banks

1	BANDHAN BANK	0.00	4.72	7.95	6.84	4.87
2	HDFC BANK	3.79	3.72	3.84	3.77	3.78
3	KOTAK MAHINDRA BANK LTD.	3.98	3.59	3.79	3.60	3.74
4	INDUSIND BANK LTD.	3.06	3.16	3.39	3.88	3.37
5	CITY UNION BANK LTD.	2.90	3.08	3.40	3.58	3.24

Source: Reports of RBI and IBA

Table 9 uncovers the data in regards to chosen private area banks concerning Net revenue pay for the time of 4 years. Bandhan bank is at top in positioning among the chose private area keeps money with a normal of 4.87 and it is trailed by HDFC, KOTAK Mahindra Bank, INDUSIND Bank and City Association Bank LTD. Premium Pay to Add up to Pay: This proportion estimates the bank's capacity to produce revenue pay from its resources, for example from loaning exercises. Things, for example, pay on progresses, interest on reserves saved with RBI, and profit pay structure part of interest pay. Anyway a high proportion could likewise mean bank needs enhancement. Based on this boundary one might say that all chosen banks detailed above 90% premium pay comparing to add up to pay during said period. Punjab and Sindh Save money with a normal of 94.10 and it is firmly trailed by National bank of India, Dena Bank, Bank of Maharashtra and Andhra bank separately.

Table 10 Interest income to total income

Top 5 Public Sector Banks (%)

Ranks	Name	2020	2021	2022	2023	Average
1	PUNJAB AND SIND BANK	95.25	94.61	93.39	93.18	94.10
2	CENTRAL BANK OF INDIA	93.31	93.03	89.56	90.16	91.51
3	DENA BANK	93.72	93.69	89.05	88.47	91.23
4	BANK OF MAHARASTRA	92.64	92.76	88.89	88.04	90.58
5	ANDHRA BANK	91.61	91.85	88.65	88.34	90.11

Top 5 Private Sector Banks

1	Nanital Bank LTD.	91.16	94.88	91.43	94.63	93.02
2	The J & K bank LTD.	92.24	93.14	93.13	93.04	92.88
3	Dhanluxmi Bank LTD.	93.79	94.04	90.75	90.87	92.36
4	Bnadhan Bank	0.00	91.34	90.48	87.18	67.25
5	IDFC	NA	90.05	89.38	89.03	67.11

Source: Reports of RBI and IBA

Nanital Bank LTD is at top in positioning among the chose private area banks during concentrate on period. What's more, it is trailed by J & K Bank and Dhanluxmi bank intently for second and third position. Bnadhan bank and IDFC detailed lower pay rate relating to add up to pay when contrasted with top three banks.

Liquidity: The last parts of CAMEL model liquidity position of banks. This is prime worry of the board to deal with the appropriate compromise among liquidity and benefit. A significant proportion to quantify bank's capacity is fluid resources for absolute resources. It might remembers cash for hand reserves kept with national bank, offset with different banks and cash at call, while complete resources incorporates revaluations, all things considered.

Credit - Store proportion: this proportion is intermediary for liquidity position of a bank; credit alludes to add up to progresses while stores mean complete stores. This proportion demonstrates the extent of stores that has been utilized by the bank to loan. A higher extent is alluring. Anyway it could likewise mean the bank the bank should confront tension on its assets and that it is depending a lot on stores to loan.

Credit-Store (%):On this boundary Table 11 uncovers that state bank of India arises at top perform save money with a figure of 78.71% in expressed time of study. Also, it is trailed by Partner bank, Association bank of India, Allahabad bank and OBC. Proportion ranges among the chose public area banks somewhere in the range of 70% and 78.71%. Table uncovers the exhibition of chosen private area banks during time of study. Confidential area bank indeed shows better execution when contrasted with public area banks. IDFC bank needs to high level and it is trailed by ICICI BNAK LTD, INDUSIND Bank LTD, Hub and YES bank LTD.

Table 11 Credit-deposit (%)

Top 5 Public Sector Banks

Ranks	Name	2020	2021	2022	2023	Average
1	SBI	82.45	84.13	76.83	71.45	78.71
2	SYNDICATE BANK	79.38	76.94	76.63	77.24	77.54
3	UNION BANK OF INDIA	80.68	78.01	75.71	70.69	76.27
4	ALLAHABAD BANK	77.49	75.94	74.68	71.19	74.82
5	ORIENTAL BANK OF COMMERCE	71.20	71.26	71.90	65.77	70.03

Top 5 Private Sector Banks

1	IDFC BANK	0.00	556.02	123.20	108	196.80
2	ICICI BANK LTD.	107.18	103.28	94.73	91.34	99.13
3	INDUSIND BANK LTD.	92.79	95.07	89.34	93.39	92.64
4	AXIS BANK LTD.	87.17	94.64	90.03	96.92	92.19
5	YES BANK	82.86	87.91	92.57	101.39	91.18

Source: Reports of RBI and IBA

Conclusions

Non-performing resources need to oversee effectively; the higher apportion implies the bank can't deal with its credits and advances proficiently. Net revenue pay is the main proportion which estimates the monetary presentation of banks. The benefit income limit of the banks shows how well the banks are dealing with its procuring resources for acquire incomes. Consequently, it must be given most noteworthy need. The banks ought to likewise zero in on administrative proficiency so it can deal with all boundaries of execution. The monetary framework is a significant guide in the improvement of any economy where bank is significant part of this. The monetary framework in India has worked on its degree for improvement and CAMEL model is one of the monetary models that assessed the monetary exhibition of banks in regard of five components. The above concentrate on shows that the presentation of the banks is unique in relation to one another and as one spotlights on one rules' are significant. Moreover concentrate likewise features the shortcomings of the banks where they should be gotten to the next level.

Administrative ramifications of exploration: The most commitment of this study is the monetary exhibition assessment of chosen banks through utilizing of a CAMEL model in the financial business. This study affirms the appraisal of various marks of banking industry as far as capital ampleness, resources quality, administrative proficiency, acquiring limit and liquidity positions. The concentrate likewise recommends that CAMEL model is a reasonable instrument for estimating the monetary and administrative exhibition of banking area. Accordingly, bank chiefs can utilize the model to quantify the presentation of their banks. The fundamental point ought to be to foster proper methodology to counter issues of NPAs and work on the resources and administration quality. The ongoing review showed that there is a massive distinction in the presentation of private area and public area banks. Subsequently, the executives of public area banks ought to

focus harder for development.

Aftereffects of this study give the financial choices producer and strategy creator experiences into the disappointed region. At present time NPAs, and resources nature of banks needs additional consideration from strategy producers to amend their inadequacies to work on the exhibition of particularly open area banks.

References

- Bhayani, S.J. (2006) 'Performance of the New Indian Private Sector Banks: a comparative study', ICFAIAN Journal of Management Research, Vol. 5, No. 11, pp.53–70.
- Bodla, B.S. and Verma, R. (2006a) Evaluating performance of banks through CAMEL model: a case study of SBI and ICICI', The ICFAI Journal of Bank Management, Vol. 5, No. 3, pp.49–63.
- Bodla, B.S. and Verma, R. (2006b) 'Earning quality of schedule commercial banks in India bank wise and sector wise analysis', Prajnan Journal of Social and Management Sciences, Vol. 37, No. 4 .
- Chaudhry, S. and Singh, S. (2012) 'Impact of reforms on the asset quality in Indian banking', International Journal of Multidisciplinary, Vol. 5, No. 2, pp.17–24.
- Hundal, A.K. and Singh, M. (2016) 'Performance evaluation of public and private sector banks in India: a comparative study', Indian Journal of Research, Vol. 5, No. 4, pp.237–242.
- Karri, H.K., Meghani, K. and Mishra, B.M. (2015) 'A comparative study on financial performance of public sector banks in India: an analyse on CAMEL Model', Arabian Journal of Business and Management Review, University Library of Munich, Germany, Vol. 4, No. 8.
- Karthikeyan, M. and Sivakami, P. (2014b) 'Performance of public sector banks in India (a study using Camel Model)', Peripex-Indian Journal of Research, Vol. 3, No. 4, pp.25–32.
- Karthikeyan, P. and Shangari, B. (2014a) 'Calibrating financial soundness among selected private sector banks in India by using Camel Model', International Journal of Management Research and Review, pp.449–454.
- Kaur, M. and Priya, R. (2017) 'Evaluating the performance of Public sector Banks "Bank of Baroda and Punjab National Bank": an application of CAMEL model with capital and earning parameter', Asian Journal of Research in Business Economics and Management, Vol. 7, No. 5, pp.258–270.
- Kumar, P. (2014) Financial performance of scheduled commercial banks in India: an analysis, Research Report, pp.1–2.
- Makkar, A. and Shweta (2013) 'Analysis of financial performance of Indian commercial banks: a comparative study', Indian Journal of Finance, Vol. 7, No. 5.
- Mishra, K.M. (2011) 'Financial Performance of Indian banks in post liberalization era: a study of public and private Banks', International Journal of Commerce and Management, Vol. 43. Available online at: <http://hdl.handle.net/10603/9288>
- Mustafa, M.S.M. and Taqi, M. (2017) 'A study on the financial performance evaluation of Punjab National Bank', International Journal of Business and Management Invention, Vol. 6, No. 1, pp.5–15.
- Nathwani, D.B. (2015) 'Financial performance appraisal of Indian banking sector – a comparative study of

selected public & private sector banks in Gujarat', Financial Performance Gujarat Indian Banking Sector Private Sector, p.315. Available online at: <http://hdl.handle.net/10603/76743>

Ozbek (2015) 'Performance analysis of public banks in Turkey', International Journal of Business Management and Economic Research, Vol. 6, No. 3, pp.178–186.

Rao, K.M. (2014) 'An analysis on the performance of private and public sector banking systems', International Journal of Business and Administration Research Review, Vol. 2, No. 5, pp.104–109.

Rao, K.P.V. (2017) 'Financial performance analysis of banks – a study of IDBI Bank', International Journal of Research in IT and Management (IJRIM), Vol. 7, No. 1, pp.64–72.

Suresh, V. (2008) 'A study on financial performance of public sector banks in India', Financial Performance Profitability Trends, p.286. Available online at: <http://hdl.handle.net/10603/102897>

Websites

<http://www.moneycontrol.com/>

http://www.bankingawareness.com/bankinggk/bankinghistory-in-india-post_independence_banking-history/

http://www.researchandmarkets.com/reports/402/indian_banking_industry

<http://www.sbi.in>

<http://www.sbi.com>

<http://www.icici.in>

<http://www.ibef.org/industry/banking-india.aspx>

http://in.reuters.com/finance/stocks/companyProfile?symbol=IOB_K.NS

<http://www.indiaonline.com/Markets/Company/Background/Company-Profile/Indian-Overseas>

<http://www.jagranjosh.com/articles/what-is-bank-introductionfeatures-1351930521>

<http://www.rbi.org.in/home.aspx>