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Research Paper / Article / Review

A STUDY OF NON-PERFORMING ASSETS (NPA) AND ITS IMPACT ON THE PROFITABILITY OF THE INDIAN BANKING SECTOR

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Abstract: Healthy financial sector is necessary for the growth of the Indian economy. Banking sector is facing the problem of non-performing assets since many years' especially public sector banks. Higher NPA leads to reduction in the profits of the banks and also lead to erosion of their capital. This paper covers the study of NPA and its impact on the profitability of the banks for a period of 5 years starting from 2019 to 2023. To study the impact on profitability various ratios like return on assets, equity and investments were considered. The paper also covers the risk assessment of the banks by studying capital adequacy ratio.

Key Words NPA, CRAR, ratios, advances.

1. INTRODUCTION:

Indian financial system is considered as a bank based economy which means the individuals and the corporates mostly rely on the banking system of the country to meet their financial needs. In India, banking system is also considered as the backbone of the country. In such scenario it becomes necessary that the system works efficiently and remain in place. The major role of any bank is providing loans and accepting deposits and thus it becomes necessary that there is no mismatch in these assets and liabilities for the overall betterment of the banks. The loans are considered as assets since they generate major income for the banks and the deposits are considered as liabilities since the bank needs to pay the interest expense on it. If the bank regularly gets it income they are able to pay its interest expense on time but if sometimes the assets stop generating income, it becomes difficult for the banks and thus the problem of NPA (non-performing assets) arises.

Non-performing assets are those assets who haven't generated income for a consecutive period of 90 days. They are further classified into 4 category depending on the period they are unpaid:

Standard advances: These are those assets whose interest is paid on time and there is no default for consecutive period of 90 days.

Substandard advances: These are the one which are been defaulted for a period of 90 days but are not been defaulted for more than 12 months.

Doubtful advances: The default of such advances ranges from one year to 3 years.

Loss advances: These are those which are been defaulted for more than 3 years and are generally considered as bad debts.

The paper is classified into two sections. Section I covers the rise and fall of NPA for all public sector banks, private sector and foreign banks. Section II covers the study of NPAs and profitability ratios of top 10 banks according to their market capitalization as per March 2024.

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2. LITERATURE REVIEW:

Studies on Non-Performing Assets (NPAs) and their effects on profits and financial health have been a major source of worry for the worldwide banking industry. NPAs have attracted special attention in terms of the Indian banking industry because of their potential effects on the economy and financial wellness.

Singh and Kapoor (2018), emphasized that non-performing assets (NPAs) have an impact on banks' profitability and their capacity to lend, which hinders economic growth. The analysis made clear that greater NPA levels raise the need for provisioning, which reduces banks' profit margins. Kumar (2017), highlighted how NPAs negatively impact banks' asset quality and profitability indicators.

Moreover, empirical data points to a reciprocal relationship between profitability and non-performing assets.

Mishra and Mohanty (2019), discovered that an increase in NPAs had a negative effect on banks' profitability ratios, including return on equity (ROE) and return on assets (ROA), suggesting that larger NPAs limit banks' ability to generate profits. Bhattacharya and Chatterjee (2020), claimed that prompt identification and resolution of non-performing assets (NPAs) might help minimize their negative effects on profitability.

Banks' reactions to non-performing assets (NPAs) are significantly influenced by the regulatory landscape. RBI (2021), emphasized the significance of strict regulatory frameworks and efficient oversight in reducing the rise of non-performing assets (NPAs) and strengthening the resilience of banks. The wider effects of non-performing assets (NPAs) on systemic risk and financial stability in the banking industry are highlighted by this regulatory viewpoint.

According to the research, NPAs have a major impact on banks' profitability in India. Proactive risk assessment, strong credit appraisal processes, and quick resolution of troubled assets are just a few of the effective management techniques that are necessary to lessen the negative effects of non-performing assets (NPAs) on the financial health of banks.

3. OBJECTIVES:

- To study and analyze the increase or decrease in the different categories of NPA for different banks.
- To study and analyze the rise in NPAs and advances in top 10 selected banks
- To find the impact of NPA on the various profitability ratios of the selected banks.
- To assess the risk of the selected banks through CRAR ratio.

4. SCOPE OF TH THE STUDY:

- The study is confined to the banks in India.
- The study covers the analysis of top 10 banks according to the market capitalization as per March 2024.
- The study is limited for a period of 5 years from 1st April 2019-31st March 2023.

5. RESEARCH METHODOLOGY:

The study is purely confined to the secondary data and the source for which is RBI

6. RESULT / FINDINGS:

SECTION I

Table 1: Gross NPA's (amount in crores)

Year	Public sector banks	Total advances	% of NPA	Private sector banks	Total advances	% of NPA	Foreign banks	Total advances	% of NPA
2023	4,28,197.36	86,10,114.70	5	1,25,211.84	54,62,976.20	2.3	9,544.48	5,00,471.72	1.9
2022	5,40,958.23	74,33,006.32	7.3	1,80,742.11	47,01,732.69	3.8	13,786.18	4,76,084.75	2.9
2021	6,16,615.56	67,70,362.53	9.1	2,02,266.14	40,97,039.56	4.9	10,199.07	4,20,616.72	2.4
2020	6,78,317.00	66,15,111.61	10.3	2,05,847.82	37,76,231.27	5.5	10,208.30	4,36,065.62	2.3
2019	7,39,541.00	63,82,460.85	11.6	1,80,872.44	34,42,346.66	5.3	12,182.57	4,06,881.32	3

Source: RBI

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Table 1 depict the gross NPA's of all public sector banks, private sector banks and foreign banks for last 5 years. From the table, it is being clearly observed that the NPA's have declined from the year 2019 to the year 2023 signifying positive impact on the banking sector.

Table 2: Types of advances

(amount in crores)

Standard advances					
Year	Public	sector	Private	sector	Foreign banks
	banks		banks		
2023	81,81,917.35	5	53,37,764.3	6	4,90,927.24
2022	68,92,048.10)	45,20,990.5	7	4,62,298.57
2021	61,53,746.97	7	38,94,773.4	1	4,10,417.65
2020	59,36,794.61	1	35,70,383.4	5	4,25,857.32
2019	56,42,919.85	5	32,61,474.2	3	3,94,698.75
Substandard advances					
Year	Public	sector	Private	sector	Foreign banks
	banks		banks		
2023	63,551.57		34,306.54		1,698.01
2022	77,406.18		41,880.04		3,648.95
2021	1,13,246.31		67,335.63		3,647.95
2020	1,36,850.55		59,670.18		3,272.54
2019	1,40,758.82		44,231.55		3,163.10
Doubtful advances					
Year	Public	sector	Private	sector	Foreign banks
	banks		banks		
2023	2,33,780.70		56,338.58		6,664.67
2022	3,41,247.18		85,538.97		7,952.99
2021	3,67,614.57		1,00,500.52		5,565.62
2020	4,24,828.82		1,07,278.51		5,775.18
2019	5,23,537.60		1,25,914.44		7,985.42
Loss advances					
Year	Public	sector	Private	sector	Foreign banks
	banks		banks		
2023	1,30,865.08		34,566.72		1,181.80
2022	1,22,304.86		53,323.11		2,184.24
2021	1,35,754.68		34,430.00		985.5
2020	1,16,637.63		38,899.13		1,160.58
2019	75,244.58		10,726.44		1,034.05

Source: RBI

The NPAs are classified into four category standard, substandard, doubtful and loss assets depending on the duration for which it was unpaid. In table 1, we saw that NPA's have declined in the last 5 years. Through this table, we can conclude that all banks are able to manage their substandard and doubtful advances since they are declining but we can see that there is a rise in their loss assets which can impact their profitability since these are the one which are considered as bad debts. More the rise in loss advances will lead to increasing risk of bankruptcy for the banks.

SECTION II

SECTION II								
Table: 3 Gross NPAs								
Year	2023	2022	2021	2020	2019	%		
						change		
Bank of Baroda	36,763.70	54,059.40	66,670.98	69,381.43	48,232.76	(23.78)		
Indian overseas bank	14,071.55	15,298.62	16,323.18	19,912.70	33,398.12	(57.87)		
Punjab national bank	77,327.67	92,448.04	1,04,423.42	73,478.76	78,472.70	(0.15)		
State bank of India	90,927.78	1,12,023.37	1,26,389.02	1,49,091.85	1,72,750.36	(47.36)		
Union bank of India	60,987.29	79,587.07	89,788.20	49,085.30	48,729.15	25.16		

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Public sector banks	2,80,077.99	3,53,416.50	4,03,594.80	3,60,950.04	3,81,583.09	(26.60)
Axis bank limited	17,019.09	18,565.63	22,681.69	30,233.82	29,789.44	(94.28)
HDFC bank ltd.	18,019.03	16,140.96	15,086.00	12,649.97	11,224.16	60.54
ICICI bank limited	29,986.07	33,294.92	40,841.42	40,829.09	45,676.04	(377.86)
IndusInd bank ltd	5,826.27	5,517.15	5,794.99	5,146.74	3,947.41	47.59
Kotak Mahindra bank	5,768.32	6,469.74	7,425.51	5,026.89	4,467.94	29.10
ltd.						
Private sector banks	76,618.79	79,988.41	91,829.61	93,886.51	95,104.99	(19.44)

Source: RBI

Table : 4	Net NPA	\S		(amoun	t in crores)	
Year	2023	2022	2021	2020	2019	%
						change
Bank of Baroda	8,384.32	13,364.65	21,799.89	21,576.60	15,609.50	(46.29)
Indian overseas bank	3,266.01	3,824.63	4,577.59	6,602.80	14,368.30	(77.27)
Punjab National bank	22,585.04	34,908.73	38,575.70	27,218.90	30,037.66	(24.81)
State bank of India	21,466.64	27,965.71	36,809.72	51,871.30	65,894.74	(67.42)
Union bank of India	12,927.44	24,303.30	27,280.52	17,303.14	20,332.42	(36.42)
Public sector banks	68,629.45	1,04,367.02	1,29,043.42	1,24,572.74	1,46,242.62	(583.79)
Axis bank limited	3,439.11	4,745.30	6,584.59	9,360.41	11,275.60	(69.50)
HDFC bank ltd.	4,368.43	4,407.68	4,554.82	3,542.36	3,214.52	35.89
ICICI bank limited	5,150.07	6,931.05	9,117.66	9,923.24	13,449.72	(61.71)
IndusInd bank ltd	1,714.96	1,529.83	1,476.56	1,886.58	2,248.28	(23.72)
Kotak Mahindra bank ltd.	1,193.30	1,736.71	2,705.17	1,557.89	1,544.37	(22.73)
Private sector banks	15,865.87	19,350.57	24,438.81	26,270.48	31,732.49	(50)

Source: RBI

Table 3 & 4 gives the summary of gross NPA's and net NPA's for top 10 banks in India according to their market capitalization. Gross NPA is the total value of non-performing assets whereas net NPA is the value after gross NPA minus the provisions made by the banks. The percent change calculated is the difference between the amounts in 2023 with respect to the amount of 2019. From the table above, we can have observed that most of the banks NPA have declined over the 5 years except HDFC bank where there is a rise in both gross NPA as well as net NPA. It is also being observed that public sector banks have managed to control their NPA's better as compare to private sector banks.

Table 5: PSU banks ratios

BANK	BANK OF BARODA								
	Ratio of term loan to total	ratio of secured advances	Return on assets	Return on equity	return on investments	Capital adequacy ratio	Ratio of net NPA to net advances		
	advances	to total advances							
2023	62.58	79.2	1.03	15.33	6.53	16.24	0.89		
2022	58.68	82.69	0.6	8.93	6.11	15.68	1.72		
2021	56.9	86.88	0.07	1.11	6.37	14.99	3.09		
2020	56.82	87.72	0.06	0.84	6.74	13.3	3.13		
2019	51.3	86.53	0.06	0.97	7.4	13.42	3.33		
INDIA	N OVERSEA	AS BANK							
	Ratio of term loan to total advances	ratio of secured advances to total advances	Return on assets	Return on equity	return on investments	Capital adequacy ratio	Ratio of net NPA to net advances		
2023	53.99	82.71	0.76	8.7	6.08	16.1	1.83		
2022	67.07	85.74	0.59	8.56	5.86	13.83	2.65		

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2021	62.96		81.75	0.31	5.02	6.53	15.32	3.58
2020	47.73		76.68	-2.95	-52.45	7.12	10.72	5.44
2019	42.64		80	-1.35	-25.23	7.26	10.21	10.81
PUNJ	AB NA	TION	AL BANK	•				
	Ratio term to	of loan total	ratio of secured advances	Return on assets	Return on equity	return on investments	Capital adequacy ratio	Ratio of net NPA to net advances
	advan	ces	to total					
2022	41.8		advances 81.82	0.18	2.57	6.55	15.5	2.72
2023 2022	39.04		78.87	0.18	3.71	6.14	14.5	4.8
2022	39.04		80.15	0.26	2.29	6.44	14.32	5.73
2021	33.87		77.83	0.13	0.63	6.93	14.32	5.78
2019	36.85		82.06	-1.25	-23.24	7.01	9.73	6.56
		K OF 1		-1.23	-23.24	7.01	9.13	0.30
SIAI	STATE BANK OF INDIA Ratio of ratio of Return Return return on Capital Ratio of net							
	term	loan	secured	on	on equity	return on investments	adequacy	NPA to net
	to	total	advances	assets	on equity	mvestments	ratio	advances
				assets			1440	ad valices
1	∟auvan	ces	to total					
	advan	ces	to total advances					
2023	68.16	ces		0.96	16.53	6.29	14.68	0.67
2023 2022		ces	advances	0.96 0.67	16.53 11.86	6.29 5.99	14.68 13.83	0.67 1.02
	68.16	ces	advances 70.92					
2022	68.16 67.78	ces	advances 70.92 72.77	0.67	11.86	5.99	13.83	1.02
2022 2021	68.16 67.78 68.5	ces	advances 70.92 72.77 75.8	0.67 0.48	11.86 8.4	5.99 6.65	13.83 13.74	1.02 1.5
2022 2021 2020 2019	68.16 67.78 68.5 65.91		70.92 72.77 75.8 75.95 76.08	0.67 0.48 0.38	11.86 8.4 6.4	5.99 6.65 6.77	13.83 13.74 13.06	1.02 1.5 2.23
2022 2021 2020 2019	68.16 67.78 68.5 65.91 60.8		70.92 72.77 75.8 75.95 76.08	0.67 0.48 0.38	11.86 8.4 6.4	5.99 6.65 6.77	13.83 13.74 13.06 12.72	1.02 1.5 2.23 3.01
2022 2021 2020 2019	68.16 67.78 68.5 65.91 60.8 N BAN Ratio	K OF 1	70.92 72.77 75.8 75.95 76.08 INDIA ratio of secured	0.67 0.48 0.38 0.02	11.86 8.4 6.4 0.39	5.99 6.65 6.77 7.34	13.83 13.74 13.06 12.72 Capital adequacy	1.02 1.5 2.23 3.01
2022 2021 2020 2019	68.16 67.78 68.5 65.91 60.8 N BAN Ratio term to	K OF of loan total	70.92 72.77 75.8 75.95 76.08 INDIA ratio of secured advances	0.67 0.48 0.38 0.02	11.86 8.4 6.4 0.39	5.99 6.65 6.77 7.34 return on	13.83 13.74 13.06 12.72	1.02 1.5 2.23 3.01
2022 2021 2020 2019	68.16 67.78 68.5 65.91 60.8 N BAN Ratio term	K OF of loan total	70.92 72.77 75.8 75.95 76.08 INDIA ratio of secured advances to total	0.67 0.48 0.38 0.02 Return on	11.86 8.4 6.4 0.39	5.99 6.65 6.77 7.34 return on	13.83 13.74 13.06 12.72 Capital adequacy	1.02 1.5 2.23 3.01 Ratio of net NPA to net
2022 2021 2020 2019 UNIO	68.16 67.78 68.5 65.91 60.8 N BAN Ratio term to advan	K OF of loan total	70.92 72.77 75.8 75.95 76.08 INDIA ratio of secured advances to total advances	0.67 0.48 0.38 0.02 Return on assets	11.86 8.4 6.4 0.39 Return on equity	5.99 6.65 6.77 7.34 return on investments	13.83 13.74 13.06 12.72 Capital adequacy ratio	1.02 1.5 2.23 3.01 Ratio of net NPA to net advances
2022 2021 2020 2019 UNIO	68.16 67.78 68.5 65.91 60.8 N BAN Ratio term to advan	K OF of loan total	70.92 72.77 75.8 75.95 76.08 INDIA ratio of secured advances to total advances 83.49	0.67 0.48 0.38 0.02 Return on assets	11.86 8.4 6.4 0.39 Return on equity	5.99 6.65 6.77 7.34 return on investments	13.83 13.74 13.06 12.72 Capital adequacy ratio	1.02 1.5 2.23 3.01 Ratio of net NPA to net advances
2022 2021 2020 2019 UNIO 2023 2022	68.16 67.78 68.5 65.91 60.8 N BAN Ratio term to advan 53.82 55.86	K OF of loan total	70.92 72.77 75.8 75.95 76.08 INDIA ratio of secured advances to total advances 83.49 82.83	0.67 0.48 0.38 0.02 Return on assets 0.69 0.47	11.86 8.4 6.4 0.39 Return on equity	5.99 6.65 6.77 7.34 return on investments	13.83 13.74 13.06 12.72 Capital adequacy ratio	1.02 1.5 2.23 3.01 Ratio of net NPA to net advances
2022 2021 2020 2019 UNIO 2023 2022 2021	68.16 67.78 68.5 65.91 60.8 N BAN Ratio term to advan 53.82 55.86 54.27	K OF of loan total	70.92 72.77 75.8 75.95 76.08 INDIA ratio of secured advances to total advances 83.49 82.83 88.65	0.67 0.48 0.38 0.02 Return on assets 0.69 0.47 0.27	11.86 8.4 6.4 0.39 Return on equity 11.33 7.75 4.68	5.99 6.65 6.77 7.34 return on investments 6.21 5.87 6.73	13.83 13.74 13.06 12.72 Capital adequacy ratio 16.04 14.52 12.56	1.02 1.5 2.23 3.01 Ratio of net NPA to net advances 1.7 3.68 4.62
2022 2021 2020 2019 UNIO 2023 2022	68.16 67.78 68.5 65.91 60.8 N BAN Ratio term to advan 53.82 55.86	K OF of loan total	70.92 72.77 75.8 75.95 76.08 INDIA ratio of secured advances to total advances 83.49 82.83	0.67 0.48 0.38 0.02 Return on assets 0.69 0.47	11.86 8.4 6.4 0.39 Return on equity	5.99 6.65 6.77 7.34 return on investments	13.83 13.74 13.06 12.72 Capital adequacy ratio	1.02 1.5 2.23 3.01 Ratio of net NPA to net advances

Source: RBI

Table 5 demonstrates various profitability ratios of public sector banks for last 5 years. It is been observed that all 5 banks return on assets have increased but in a lesser proportion whereas all PSU banks have given a very high return to their equity shareholders with SBI ranking first and those banks who were giving negative returns in the year 2019 have also started giving positive returns by the year 2023. One of the reason of such increase in return on equity can be declining in NPA of PSU banks over the past 5 years. One more thing than we can observed is that there is a decrease in return of investments for all the 5 banks. According to Basel III, the minimum capital adequacy ratio a bank should have is 10.5, from the above table it is observed that all banks have their CAR ratio above the minimum value and has been increasing over the years signifying that the PSU banks have enough cushion to absorb a reasonable amount of losses before they become insolvent.

Table 6: private banks ratios

			Table 0.	private bain	is latios			
AXIS BANK LTD								
	Ratio of term loan to total advances	ratio of secured advances	Return on assets	Return on equity	return on investments	Capital adequacy ratio	Ratio of net NPA to net advances	

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		to total					
		advances					
2023	69.1	71.97	0.8	7.96	6.44	17.64	0.41
2022	68.36	76.08	1.21	12.02	5.83	18.54	0.67
2021	67.31	72.86	0.7	7.06	6.56	19.12	1.06
2020	69.83	72.54	0.2	2.15	6.78	17.53	1.62
2019	66.47	72.13	0.63	7.19	6.9	15.84	2.2
	BANK LTD	1					
	Ratio of	ratio of	Return	Return on	return on	Capital	Ratio of net
	term loan	secured	on assets	equity	investments	adequacy	NPA to net
	to total	advances				ratio	advances
	advances	to total					
		advances					
2023	63.9	70.03	2.07	16.96	6.44	19.26	0.27
2022	66.21	69.51	2.03	16.66	5.79	18.9	0.32
2021	64.9	70.73	1.97	16.61	5.56	18.79	0.4
2020	72.54	70.59	2.01	16.4	6.02	18.52	0.36
2019	71.41	73.03	1.9	16.5	7.47	17.11	0.39
ICICI	BANK LTD	T	1	1	_	T	
	Ratio of	ratio of	Return	Return on	return on	Capital	Ratio of net
	term loan	secured	on assets	equity	investments	adequacy	NPA to net
	to total	advances				ratio	advances
	advances	to total					
2022	(7. (0)	advances	216	17.10	(21	10.24	0.51
2023	67.68	71.38	2.16	17.18	6.21	18.34	0.51
2022	67.93	73.51	1.84	14.68	5.55	19.16	0.81
2021	70.27	73.73	1.42	12.27	6.23	19.12	1.24
2020 2019	68.97 69.23	73.79 72.47	0.81	7.05 3.15	6.42	16.11 16.89	1.54 2.29
	IND BANK	12.41	0.39	3.15	0.43	10.89	2,29
INDUS	Ratio of	ratio of	Return	Return on	return on	Capital	Ratio of net
	term loan	secured	on assets	equity	investments	adequacy	NPA to net
	to total	advances	on assets	equity	investments	ratio	advances
	advances	to total				Tatio	auvances
	ua vances	advances					
2023	70.36	67.33	1.8	14.44	6.09	17.86	0.59
2022	69.41	68.07	1.28	10.13	5.76	18.42	0.64
2021	75.05	76.62	0.9	7.33	5.93	17.38	0.69
2020	73.71	75.88	1.54	14.55	7.18	15.04	0.91
2019	68.53	79.91	1.39	13.07	6.73	14.16	1.21
KOTA	K MAHINDR	A BANK		•	•	1	
	Ratio of	ratio of	Return	Return on	return on	Capital	Ratio of net
	term loan	secured	on assets	equity	investments	adequacy	NPA to net
	to total	advances				ratio	advances
	advances	to total					
		advances					
2023	67.4	79.26	2.47	14.03	5.82	21.8	0.64
2022	65.92	77.31	2.13	12.59	6.5	22.69	1.21
2021	71.59	77.99	1.85	12.36	7.59	22.26	1.21
2020	69.96	75.12	1.87	12.94	7.19	17.89	0.71
2019	66.98	76.11	1.69	12.11	7.18	17.45	0.75

Source: RBI

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Table 6 gives details of private sector banks. The scenario of private sector banks is not as great as PSU banks in the last 5 years since the return on assets and return on equity of all the private sector banks are just increasing marginally whereas there in a decline in return on investment ratio of all the banks. The CAR ratio of all private banks is higher as compared to PSU banks since the risk is more in private sector banks and therefore they require a good amount of coverage. The ratio of net NPA to net advances have also declined marginally.

Table 7: ratios

BANK	OF BARODA		AXIS B	SANK LTD	
	Ratio of net interest	Ratio of non		Ratio of net interest	Ratio of non interest
	income to total assets (interest income		income to total assets (income total assets
	Net interest margin)	total assets		Net interest margin)	
2023	3.02	0.73	2023	3.45	1.32
2022	2.68	0.94	2022	3.06	1.41
2021	2.49	1.12	2021	3.08	1.29
2020	2.45	0.92	2020	2.94	1.81
2019	2.46	0.84	2019	2.91	1.76
INDIA	N OVERSEAS BANK		HDFC	BANK LTD	
	Ratio of net interest	Ratio of non-		Ratio of net interest	Ratio of non-
	income to total assets (interest income		income to total assets (interest income total
	Net interest margin)	total assets		Net interest margin)	assets
2023	2.69	1.34	2023	3.83	1.38
2022	2.2	1.71	2022	3.77	1.55
2021	2.21	2.08	2021	3.96	1.54
2020	2.08	1.32	2020	4.05	1.68
2019	2.12	1.69	2019	4.18	1.53
PUNJA	B NATIONAL BANK		ICICI I	BANK LTD	
	Ratio of net interest	Ratio of non-		Ratio of net interest	Ratio of non-
	income to total assets (interest income		income to total assets (interest income total
	Net interest margin)	total assets		Net interest margin)	assets
2023	2.48	0.87	2023	4.15	1.32
2022	2.23	0.96	2022	3.59	1.4
2021	2.43	0.95	2021	3.35	1.63
2020	2.17	1.16	2020	3.23	1.59
2019	2.23	0.96	2019	2.93	1.57
STATE	BANK OF INDIA		INDUS	IND BANK	
	Ratio of net interest	Ratio of non-		Ratio of net interest	Ratio of non-
	income to total assets (interest income		income to total assets (interest income total
	Net interest margin)	total assets		Net interest margin)	assets
2023	2.76	0.7	2023	4.09	1.9
2022	2.54	0.85	2022	3.92	1.92
2021	2.61	1.03	2021	4.04	1.96
2020	2.57	1.19	2020	4.12	2.38
2019	2.48	1.03	2019	3.54	2.26
UNION	BANK OF INDIA		KOTA	K MAHINDRA BANK	
	Ratio of net interest	Ratio of non-		Ratio of net interest	Ratio of non-
	income to total assets (interest income		income to total assets (interest income total
• • • •	Net interest margin)	total assets	• • • • • • • • • • • • • • • • • • • •	Net interest margin)	assets
2023	2.65	1.19	2023	4.69	1.54
2022	2.46	1.11	2022	4.14	1.56
2021	2.36	1.12	2021	4.13	1.47
2020	2.19	1.01	2020	4.02	1.6
2019	2.08	0.91	2019	3.88	1.61

Source: RBI

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The net interest margin ratio of all selected banks are increasing except for HDFC bank where it is declining over a period of 5 years. It is also being observed that the net interest margin ratio is higher for private sector banks as compared to PSU banks signifying that the private banks generate more revenues as compared to PSU banks. The non-interest income is on a declining side for all the banks.

6. CONCLUSION:

NPA has always been an alarming problem for the banking system in India. The above study was thus conducted to check whether the current situation is getting better or worsening. So thus, with the above study, we would like to conclude that the PSU banks which were facing a huge problem of rising NPA's as compared to private banks are getting better by managing and declining their net NPA to net advances ratio. There is a decline in private sector banks NPA also, but the proportion of PSU banks is more as compared to private banks resulting in a rise in return on equity ratio of PSU banks. Most of the PSU banks have manage to convert their negative return on equity ratio to positive in last 5 years leading to more returns to equity shareholders which will eventually lead to more capital from them as an investment and will also lead to increase the share price of these PSU banks.

In the study, it is being observed that the HDFC bank performance is not as great as before the year 2019. It is the only bank from the selected banks in the study whose NPA are increasing rather than declining and also the only bank whose net interest margin is declining. The bank has tried to maintain their profitability ratio up to now but if such scenario continues it will eventually lead to decline in the profits and the market price for the bank leading to investors losing their interest in the bank.

Banking sector is the one which is a high leveraged sector and thus the risk assessment for the same becomes necessary. CAR ratio is the one which measures the risk assessment for the banking sector. It is being observed from the above study that all the selected banks have their CAR ratio higher than the minimum requirements as per the Basel III thus indicating that a decent provision are been maintained by these banks.

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