

# INTERNATIONAL RESEARCH JOURNAL ON ADVANCED SCIENCE HUB

e-ISSN: 2582 - 4376 Open Access

# RSP SCIENCE HUB

(The Hub of Research Ideas) Available online at www.rspsciencehub.com

Special Issue of First International Conference on Management, Science and Technology (ICMST 2021)

## A Comparative Study on Financial Performance of banking sectors

Dr. S. Vijayalakshmi<sup>1</sup>, S. Jahnavy<sup>2</sup>

<sup>1</sup>Head, Department of B. Com (PA)., PSGR Krishnammal College for Women, Coimbatore. India.

<sup>2</sup>B. Com (PA), PSGR Krishnammal College for Women, Coimbatore, Tamil Nadu. India. jahnavys@gmail.com<sup>2</sup>

#### **Abstract**

Banking sector plays a serious role within the country's economy. The Indian banking industry is one of the quickest growing industry in India. The Indian industry has witnessed radical changes and massive growth throughout the previous couple of years. "CAMEL" ratio is calculated so as to target money performance. The CAMEL stands for Capital adequacy, Asset quality, Management, Earnings and Liquidity. The present paper explains the performance of selected banks (HDFC bank and BOB). Last 5 years are taken for this study i.e., 01/04/2015 – 31/03/2020. The study is predicated on secondary information sources and for this purpose, relevant information is collected from the Annual Report of the individual banks for the above-named study period.

Keywords: Banking sector, CAMEL, HDFC bank, BOB, Annual Report, Capital Adequacy, Asset Quality.

#### 1. Introduction

A sound and efficient banking system is a boon to the developing economy. The banking system in India should be more effective to meet new challenges and technologies of everyday life. It has come up with public sector banks, private sector banks and cooperative banks for different purposes. RBI being India's central bank and regulatory body under the jurisdiction of ministry of finance, is responsible for the issue and supply of Indian currency and the regulation of the Indian Banking system. It works for the promotion of economic development. RBI was nationalized in 1949. Currently, in this study CAMELS rating system is taken up as a tool to analyse the financial performance of "BANK OF BARODA and HDFC BANK".[1-5]

## 2. Objective

❖ To compare the financial performance of Bank of Baroda and HDFC Bank using CAMEL ratios.

❖ To analyse the *capital adequacy* and *asset quality* of the chosen banks.

#### 3. Statement of the problem

In the recent years, the financial system particularly the banks have undergone various changes in the type of reforms, laws & norms. CAMELS' framework for the performance analysis of banks is an addition to the present. The try here is to envision however various ratios are used and understood to reveal a bank's performance and the way this explicit model encompasses a good vary of parameters creating it a widely used and accepted model in today's state of affairs.

## 4. Scope of the study

To study the importance of using CAMELS framework for performance analysis in banking system. The camel model would be useful for the govt authorities to diagnose the monetary performance of the banks through its six

#### www.rspsciencehub.com

components and counsel them steps for its property.

## 5. Research methodology

#### 5.1 Research type

Here, the research type would be descriptive research through comparative study i.e., analysis of banks financial statements to understand the position of one bank in comparison with another. The present study has aimed at comparing the performance of banks through camel framework.

## 5.2Area of study

The study environment will be the Banking industry. 2 banks have been taken for the study. Bank of Baroda (second top public bank) and HDFC Bank (first top private bank) have been chosen.

## **5.3** Period of the study

The period taken up for the study would be 5 years, viz, .1.4.2015 to 31.3.2020.

## 5.4 Data source

Secondary data has been considered for the study, which has been collected from the annual reports and audited financial statements of the banks.

## 6. Limitations of the study

- Only five years have been considered for the study.
- Only two banks have been taken up for the study.

#### 7. Review of literature

Hari Krishnan Karri, Kishore Meghan, Bharti Meghani Mishra (2015) - A comparative study on financial performance of public sector banks in India: An analysis of CAMEL model. Analysed the performance of two leading public sector banks by applying CAMEL model. The study concluded that transparency and good governance would work as principle guiding force in the present scenario. Sahila Chaudhry Sultan Singh (2012) – Impact of Reforms on the Asset Quality in Indian Banking. Studied the financial reforms on the soundness of the Indian banking through its impact on the asset quality. The study identified the key players as risk management, NPA levels. effective cost management and financial inclusion.[6-11].

## 8. Analysis and Interpretation

## Table.1. Capital Risk Adequacy Ratio

(in percentage) (source: secondary data)

PARTI	CULARS	Capital ratio Tier 1	Capital ratio Tier 2	CRAR
	2015 – 16	13.00	2.00	19.00
HDFC BANK	2016 – 17	13.00	2.00	19.00
	2017 – 18	13.00	2.00	19.00
	2018 – 19	16.00	1.00	17.00
	2019 - 20	17.00	1.00	18.00
	2015 – 16	11.00	2.00	13.00
вов	2016 – 17	11.00	2.00	13.00
	2017 – 18	10.00	2.00	12.00
	2018 – 19	12.00	2.00	14.00
	2019 - 20	11.00	3.00	14.00

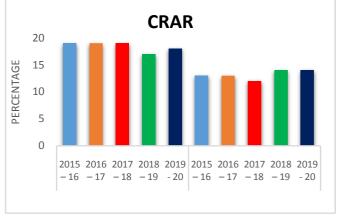


Chart.1. CRAR

## 8.1 Interpretation

Indian scheduled commercial banks are received to maintain a CRAR of 9% while Indian public sector banks are emphasized to maintain a CRAR of 12%. In case of HDFC bank, CRAR has been constant from march 2016 to march 2018 and it has been declined in 2019 and in 2020 it has increased to 18.00. In case of BOB, there has been a very slight but steady increase over the 5 years. On comparing, we find that both banks have interchanging fared better than the others in the

consecutive years and that currently HDFC bank has a higher CRAR.

Table.2. Debt Equity Ratio

(in crores)							
PARTICULARS		Borro	Net	<b>Debt Equity</b>			
1 /1111	CCLITIC	wings	worth	Ratio			
	2015-16	530184	72677	0.72:1			
	2013-10	.74	.80	0.72.1			
	2016-17	123104	10629	0.12:1			
	2010-17	.97	4.99	0.12.1			
<b>HDFC</b>	2017-18	117085	14920	0.78:1			
<b>BANK</b>	2017-18	.12	6.35	0.76.1			
	2018-19	123104	10629	1.15:1			
	2018-19	.97	4.99	1.13.1			
	2010-20	144628	17098	0.94.1			

.53

33471.

70

30611.

44

62571.

97

67201.

29

93069.

6.02

40198

.98

40303

.25

43394

.77

50983

.09

71856

.21

0.84:1

0.83:1

0.75:1

1.44:1

1.31:1

1.29:1

 $\begin{array}{c|c} 2019-20 & 30 \\ \hline \text{(source: secondary data)} \end{array}$ 

2019-20

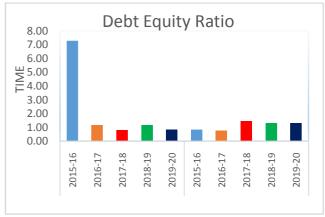
2015-16

2016-17

2017-18

2018-19

**BOB** 



**Chart.2. Debt Equity Ratio** 

### **8.2 Interpretation**

This ratio indicates the proportion of shareholder's equity and debt used to finance a company's asset. HDFC bank showed a sudden fall from 0.72 to 0.12 in 2017 – 2018 and continued to increase gradually in the upcoming years. BOB's debt equity showed a higher ratio of 1.44 in 2018-2019 and maintains it with a slight rise and fall for 2019

and 2020. On analyzing, BOB depends more on debt capital and has a higher ratio than HDFC bank.

**Table.3. Total Advance to Total Asset Ratio** 

(in crores)

PARTICULARS		Borro wings	Net worth	Total asset to total asset ratio
	2015- 16	464593 9589	740796 0728	62.71%
	2016- 17	554568 2021	863840 1917	64.19%
HDFC BANK	2017- 18	658333 0908	106393 43234	61.87%
	2018- 19	819401 2167	124454 06906	65.83%
	2019- 20	993702 8781	153051 12589	64.92%
	2015- 16	383770 .1803	671376 4769	57.16%
	2016- 17	383259 .2231	694875 4235	55.15%
вов	2017- 18	427431 .8313	719999 7716	59.36%
	2018- 19	468818 .7362	780987 4049	60%
	2019- 20	690120 .7340	115791 55151	59.60%

(source: secondary data)

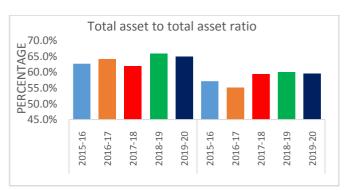


Chart.3. Total Advance to Total Asset

## 8.3 Interpretation

This ratio shows a bank's aggressiveness in lending which ultimately result in better profitability. HDFC bank shown an increasing trend in its total assets as well as total advances over the 5 years. BOB's ratio was decreasing from 57.16% to 25.15%. but it managed to maintain a constant percent over the next 3 years. HDFC bank maintained a greater advance to asset ratio,

#### www.rspsciencehub.com

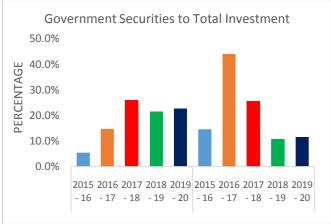
indicating aggressive lending policy and greater profit motive.

**Table.4.Government Securities to Total Investments** 

(in crores)

(III crores)						
PARTICULAR		Govt security	Total invest ment	Govt security to total investm ent		
	2015- 16	8948.60	163885 .76	5.46%		
	2016- 17	31413.37	214463 .33	14.6%		
HDFC BANK	2017- 18	62745.05	242200 .24	25.90%		
	2018- 19	62745.05	290587 .87	21.5%		
	2019- 20	89162.10	391826 .65	22.7%		
	2015- 16	17554.95	120450 .52	14.57%		
вов	2016- 17	56950.91	129630 .54	43.93%		
	2017- 18	41792.29	163184 .53	25.61%		
	2018- 19	19677.63	182298 .08	10.79%		
	2019- 20	31500	274614 .61	11.47%		

(source: secondary data)



**Chart.4. Government Securities to Total Investment Interpretation** 

This ratio depicts the risk-taking ability of the bank. Higher the ratio, lower will be the risk in bank's investment. HDFC bank's ratio gradually increases till 2017 – 2018. And it increases to 22.7% in 2019 - 2020 after a slight fall to 21.5% in 2018 – 2019. In the case of BOB, in the year 2016 – 2017 it showed a sudden increase from 14.57% to 43.93%, but at once showed a decrease to 10.79% in2018 – 2019. Again, it started up with a

rise to 11.47% in 2019 – 2020. HDFC bank maintained a higher ratio assuring lower risk in its investments over the 5 years.

Table.5.Gross NPA ratio

(in crores)

PARTICULAR		Gross	Total	Gross
		NPA	advance	NPA ratio
	2015	4392.	4645939	0.94%
	- 16	83	589	0.94%
	2016	5885.	5545682	1.05%
	<b>–</b> 17	66	021	1.0570
HDFC	2017	8606.	6583330	1.30%
BANK	- 18	97	908	1.3070
	2018	11224	8194012	1.36%
	- 19	.16	167	1.3070
	2019 -	12649	9937028	1.27%
	20	.97	781	1.27/0
	2015	40521	38770.18	10.55%
	- 16	.04	30770.10	10.5570
ВОВ	2016	42719	383259.2	11.14%
ВОВ	<del>- 17</del>	72/17	2	11.14/0
	2017	56480	427431.8	13.21%
	- 18	30400	3	13.2170
	2018	48232	468818.7	10.28%
	- 19	.76	3	10.2070
	2019 -	69381	690120.7	10%
	20	.43	3	10/0

(source: secondary data)

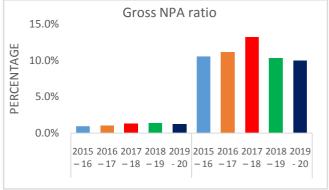


Chart.5. Gross NPA

## 8.4 Interpretation

It is the ratio to check whether the bank's gross NPA's are increasing quarter on quarter or year on year. HDFC bank shows an average of 1.18% of gross NPA to total advances over the 5 years. BOB's average covers around 11.03% for the 5 years. Comparing both, BOB shown a high gross NPA to total advances, thereby indicating a lesser efficiency in recovering its debt and lesser cautions while offering loans.

Table.5. NET NPA ratio

(in crores)

(in crores)					
PARTIC	CULAR	NET NPA	NET ADVAN CES	NET NPA RATIO	
	2015 - 16	1320. 37	4645939 589	0.28%	
	2016 - 17	1843. 99	5545682 021	0.33%	
HDFC BANK	2017 - 18	2601. 02	6583330 908	0.40%	
	2018 - 19	3214. 52	8194012 167	0.39%	
	2019 - 20	3542. 36	9937028 781	0.36%	
	2015 - 16	19046 .46	383770.1 8	4.96%	
	2016 - 17	18080	383259.2 2	4.71%	
ВОВ	2017 - 18	23483	427431.8 3	5.119%	
	2018 - 19	15609 .50	468818.7 3	3.33%	
	2019 - 20	21576 .00	690120.7 3	3.12%	

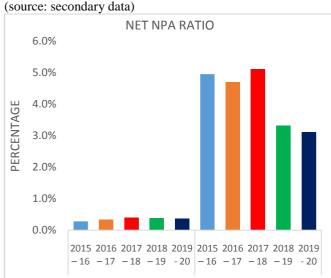


Chart.6. NET NPA

#### 8.5 Interpretation

Net NPA reflects the performance of banks. Higher the ratio, higher will be the credit risk. HDFC bank showed an increased percentage from 2017- 2018 and 2018 – 2019. But after that it showed a slight fall in its performance indicating lesser risk. BOB showed an increased percent over the 5 years than HDFC though there is a fall in the last 2 years. HDFC holds the lesser risk position when compared to BOB.

## 9. Findings

## 9.1 Capital Adequacy Ratio

- Even though HDFC bank showed a decreased in its percentage, it has a higher CRAR than BOB.
- In the case of debt capital, BOB depends more on the debit capital and has a higher ratio than HDFC bank.
- ❖ HDFC bank maintained a higher aggressive lending policy than BOB.
- ❖ HDFC bank maintained a higher ratio than BOB assuring loser risk in its investments.
- ❖ In short, HDFC bank maintains a better capital base than BOB and well adequate for the requirements.

## 9.2 Asset Quality

- ❖ BOB shown lesser efficiency in recovering its debts.
- \* HDFC is in the lesser risk position when compared to BOB.
- The asset quality of HDFC bank is more satisfying than BOB

## 10. Suggestion

- ❖ BOB would have tried to be conservative for better capital base to be adequate for the requirements of RBI.
- ❖ HDFC bank would have maintained more assets than BOB. But its investment in government securities shows the risk bearing capacity.

## **Conclusions**

This study is on the comparative financial performance of BOB and HDFC bank using camel analysis. Both the banks are in a stable and safe position. On comparing, HDFC bank has better asset quality and capital adequacy than BOB. From the present study, HDFC bank is a better performer than BOB in terms of capital adequacy, compared to BOB. The significance of CAMEL ratios and its rating methodology can be published as a part of the annual report of the banks to get a better understanding of the following position, their management efficiency by the invertor and the public.

#### References

#### **Journals**

- [1].Hari Krishnan Karri, Kishore Meghan, Bharti Meghani Mishra (2015); Vol. 4, No.8; Arabian Journal of Business and Management Review (OMAN Chapter)
- [2].K. V. N Prasad and Dr. A. A. Chari (2011) A study on financial performance of public and private sector banks. International Journal of Financial Management. Volume 2 Issue 1
- [3].Brahma Chaudhuri (2018) A Comparative Analysis of SBI and ICICI: Camel Approach. International Journal of Research in Management, Economics and Commerce. ISSN 2250-057X, Impact Factor: 6.384, Volume 08, Issue 1,Page 151-156.
- [4]. Sahila Chaudhry Sultan Singh (2012) Impact of Reforms on the Asset Quality in Indian Banking. International Journal of Multidisciplinary Research. Vol.2 Issue 1, ISSN 2231 5780.
- [5].C. Vanlalzawna (2016) A study of financial performance evaluation of banks in India. Dissertation Submitted to Mizoram university Master of Philosophy in Management.
- [6]. Amanjot Kaur SodhisimranWaraich (2016) Fundamental Analysis of Selected Public and Private Sector Banks in India. Fundamental Analysis of Selected Public and Private Sector Banks in India. ISSN: 0971-1023.
- [7].Dr. Sunita Sharma1, Rajesh Kothari2, D.S. Rathore3, Jagdish Prasad4 (2012) Causal Analysis of Profitability and Non-Performing Asset of Selected Indian Public and Private Sector Banks. Journal of Critical Reviews ISSN- 2394-5125 Vol 7, Issue 9, 2020.

#### Website

- [8].https://www.moneycontrol.com/financial/hdfc bank/balance-sheetVI/HDF01
- [9].https://www.moneycontrol.com/financial/bank ofbaroda/balance-sheetVI/BOB
- [10]. https://www.hdfcbank.com
- [11]. http://www.bankofbaroda.com