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# A Study on Financial Performance of Selected Private Sector Banks in India-A Camel Approach

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#### Abstract

Indian banking sector is invariably presumed to be one of the most important systems in the economy. Banking sectors are considered as the life blood of the Indian economy as they play an important and vital role in the economic activities. This study examines the overall performance of selected private sector banks using capital adequacy, asset quality, management effectiveness, earnings quality and liquidity level (CAMEL approach) over the period 2013-2022. Although profitability indicators (such as return on assets, return on equity and net profit margin) present the performance of selected private sector banks, it would be more appropriate to use the CAMEL Approach as a tool to assess overall performance. Because the performance of banks does not only depend on the level of NPAs or profitability, it is primarily based on various dimensions. To consider this point of view, the researchers adopted the CAMEL approach for this study to evaluate the overall financial performance of selected private sector banks.

Keywords: NPA Indicators, Profitability Indicators, CAMEL Approach, Return on Assets and Return on Equity.

#### Introduction

The banking sector is an important aspect of India's financial system. It plays a key role in improving India's currency by stimulating capital formation, innovation and monetization for further economic policies. Advances in computational tools have evolved the overall performance of rating structures over time from a single-sided structure to a more complete structure covering all components of a bank. After the reform, the Indian banking system has seen visible improvements. Maintaining financial balance in the economy often requires ongoing performance reviews. In the midst of the recent global banking crisis, it has proven important to assess a bank's overall performance by implementing a regulatory framework under its supervision. CAMEL approach is one of the assessment tools shown to be suitable for holistic performance measurement, evaluation and strategic planning for future boom and improvement of Indian banks related to the transformation needs of this sector. In this study, the researcher has to evaluate the financial performance of the selected private sector bank using CAMEL Approach.

#### Statement of the Problem

The Banks play an important role in the growth of developing economies. In India, the profits of private banks are higher than those of public banks. A study was therefore conducted to assess the financial performance and financial position of private banks such as HDFC, ICICI and AXIS Bank.

## Scope of the Study

Using **CAMEL** approach, the banks performances are evaluated with the help of Camel Ratios or parameters. Various formulas used to arrive at capital Adequacy Ratio, Net NPA Ratio, Business per Employees, Profit per Employees, and the like. Camel Approach not only provides the worthiness of the banking sector but also helps in providing Qualitative Judgments. The current study was conducted to highlight the financial performance comparisons of HDFC, ICICI and AXIS bank with the CAMEL Model. The study will determine the financial position of the HDFC, ICICI and AXIS banks.

## **Objectives of the Study**

The following are the key objectives of the study

- To understand the financial performance of HDFC, ICICI and AXIS bank by applying CAMEL Approach.
- To analyse the financial position of HDFC, ICICI and AXIS bank by using
- CAMEL Approach.
- To offer suitable suggestions and recommendations for the improvement of financial performance of selected private sector banks of India.

# Limitations of the Study

The research study cover only Ten years from 2013-2022. The researchers performed a comprehensive analysis of the financial statements of all the private sector Bank. The quality of the research depends on the accuracy, reliability, and quality of the secondary data source. All the data were taken from the annual reports of HDFC, ICICI and AXIS bank. It is possible that the data shown in the annual reports may be entered through a window

that does not reflect the actual position of the banks. Published data are not the same and are not properly disclosed by banks

## **Research Design**

The following are the research design used by the researcher

# **Methodology and Data Collections**

The present study is based on secondary data that has been collected from annual reports of the respective banks, Reserve Bank of India data, Indian Banks Association publications, magazines, journals, documents and other published information.

# Period of the Study

The present study is analytical in nature and it uses the latest available secondary data published by RBI for the 10 years starting from 2013 to 202

#### **Tools of Analysis**

The ANOVA, Ratio Analysis, Arithmetic mean and Average are used to analyze financial performance of private c sector banks in India

#### Sampling

A sample of three private Banks HDFC, ICICI and AXIS were selected based on market capitalization during 2022.

## A CAMEL Approach

The Camel approach is used in the baking industry to analyze and evaluate bank creditworthiness and analyze bank risk. It is recognized as an international classification system used by higher banking authorities to rate financial institutions based on five factors, represented graphically in its word form. Higher authorities gave each financial institution a specific rating or score. For each question, 5 is the most effective rating and 1 is the worst. The five factors are observed in this approach:

- "C" stands for Capital Adequacy. "A" stands for Asset Quality.
- "M" stands for Management Efficiency
- "E" stands for Earning Abilty.
- "L" stands for Liquidity Position



# Capital Adequacy

The capital adequacy is the essential aspects of banking institution which has an impact on profitability and bankruptcy. It helps to protect the investors' confidence and serves as a cushion during the crisis period. It is the very important part of any financial institution as it is essential to maintain capitalization.

## Captial Adequacy Ration (CAR)

The CAR used by bank to determine the adequacy of their capital keeping in view their exposures.

Capital Adequacy Ratio = (Tier 1 Capital + tier 2 Capital) / Risk Weighted Assets

Table 1 Capital Adequacy Ratio (CAR)

Year	HDFC	ICICI	AXIS
2013	17.00	19.00	17.00
2014	16.00	18.00	16.00
2015	17.00	17.00	15.00
2016	16.00	17.00	15.00
2017	15.00	17.00	15.00
2018	15.00	18.00	17.00
2019	17.00	17.00	16.00
2020	19.00	16.00	17.53
2021	18.79	19.12	19.12
2022	18.90	19.16	18.54
Mean	16.97	17.73	16.62
SD	1.52	1.10	1.48

To draw conclusions from Table 1, it is depicts that there is an average minimum ratio for AXIS Bank is 16.62 and maximum ratio of 17.73 for ICICI Bank. The minimum ratio specifies that AXIS Bank is not sufficient capitalization compared to other private sector banks. The maximum ratio labels that ICICI Bank has enough capital position compared to other banks. HDFC Bank has the highest level of standard deviation and ICICI Bank has the lowest level of standard deviation.

**Table 2 Anova for Capital Adequacy Ratio** 

Source of Variation	SS	Df	MS	F	F Crit
Between Groups	6.4282	2	3.2141	F=1.68966	3.35

Within Groups	51.3599	27	1.9022	
Total	57.7881	29		

- **H**<sub>0</sub>: All the private banks under study have on a same average of capital adequacy ratio
- H<sub>1</sub>: All the private banks under study have on a difference average of capital adequacy ratio

From the above Table 2 ANOVA for capital adequacy ratio of private sector banks, shows that since the calculated F value (1.68) less than F critical value (3.35) at the 5% level of significance, Null hypothesis (H0) is accepted, and it can be concluded that there is a significant relationship on the CAR among the private bank group.

# **Asset Quality**

Asset quality is one of the key determinants of a banking institution's financial health. As losses are eventually written off against capital, they have a ripple effect and ultimately affect the profitability of commercial banks. This means that depreciating assets weaken capital strength and lead to solvency problems. As part of asset quality, it is evaluated in relation to the severity and distribution of damage to the asset. The main purpose of calculating asset quality is to determine the ratio of non-performing assets (NPA) to total assets.

## **Net Non-Performing Assets**

NPA are assets that confiscate the income generated by banks. Net-NPA is total bad assets (real) which are less than the provision left aside. Net NPA = Gross NPA-Total provision held.

**Table 3 NET NPA To Total Assets** 

Year	HDFC	ICICI	AXIS
2013	0.12	0.42	0.21
2014	0.17	0.55	0.27
2015	0.15	0.97	0.29
2016	0.19	1.80	0.48
2017	0.21	3.27	1.43
2018	0.24	3.16	2.40
2019	0.26	1.39	2.29
2020	0.23	0.90	1.02
2021	0.26	0.74	0.70

2022	0.32	0.81	0.73
Mean	0.22	1.40	0.98
SD	0.06	1.04	0.81

It is understood from Table 3, that there is an average minimum ratio for HDFC Bank is 0.22 and maximum ratio of 1.40 for ICICI Bank. The minimum ratio identifies that HDFC Bank shows better condition of NPA than other private sector bank. The maximum ratio indicates that ICICI bank need to focus reduce loan and borrowing activity and need take step for cover interest borrowing.

**Table 4 Anova for Net NPA to Total Assets** 

Source of Variation	ss	Df	MS	F	F crit
Between Groups	7.2348	2	3.6174	F=6.26552	3.35
Within Groups	15.5885	27	0.5774		
Total	22.8233	29			

- **H**<sub>0</sub>: All private banks under study have on a same average of net non- performing assets ratio.
- H<sub>1</sub>: All private banks under study have on a difference average of net non- performing assets ratio.

From the Table 4 inferred that the ANOVA for net NPA to total assets, since the calculated F value (6.26) more than F critical value (3.35) at the level of significance 0.05, accept the alternate hypothesis. i.e., All the private sector banks under study have a difference average of net non-performing assets ratio.

#### Return on Assets (ROA)

It does explain the bank's ability to generate profit from assets.

Return on Assets = Net Income /Average Total Assets

Table 5 Return on Assets (ROA)

Year	HDFC	ICICI	AXIS
2013	1.68	1.55	1.52
2014	1.72	1.64	1.62
2015	1.73	1.72	1.59

2016	1.73	1.34	1.56
2017	1.68	1.26	0.61
2018	1.64	0.77	0.03
2019	1.69	0.34	0.58
2020	1.71	0.72	0.17
2021	1.78	1.31	0.66
2022	1.78	1.65	1.10
Mean	1.71	1.23	0.94
SD	0.04	0.47	0.61

From Table 5, it is supposed that selected private sector banks the minimum average ratio of 0.94 Axis Bank and maximum 1.71 HDFC, minimum ratio indicates that the AXIS Bank has the least returns on assets compared to other selected private banks. The maximum ratio displays that HDFC Bank has a profitable asset. AXIS Bank has the maximum level of standard deviation and whereas HDFC Bank is the lowest.

Table 6 ANOVA for Return on Assets (ROA)

Source of Variation	SS	DF	MS	F	F crit
Between Groups	3.0298	2	1.5149	F=7.63557	3.35
Within Groups	5.3569	27	0.1984		
Total	8.38697	29			

- **H**<sub>0</sub>: All private banks under study have on a same average of return on assets
- **H**<sub>1</sub>: All private banks under study have on a difference average of return on

#### **Assets**

From the above ANOVA Analysis, it is inferred that since the calculated F value (7.63) more than F critical value (3.35) at the level of significance 0.05, accept the alternate hypothesis. i.e., All private banks under study have a difference average of return on assets ratio.

#### **Management Efficiency**

Management efficiency is one of the most important elements of the CAMEL framework. It measures management competence, leadership,

innovation, management ability to cope with a dynamic environment, and overall adherence to established norms and standards. This segment includes exclusive analysis that measures the relative efficiency and effectiveness of management.

## **Credit Deposit Ratio**

The CDR ratio is used to calculate a ratio to cover the credit bank's ability to cover withdrawals that its customers derive. The bank must make the deposit on request, so if the ratio is high, there is a high risk to the bank. CREDIT DEPOSIT RATIO=LOANS / DEPOSIT.

**Table 7 Credit Deposit Ratio (CDR)** 

Year	HDFC	ICICI	AXIS
2013	80.92	99.19	77.97
2014	82.49	102.05	81.89
2015	81.08	107.18	87.17
2016	85.02	103.28	94.64
2017	86.16	94.73	90.03
2018	83.46	91.34	96.92
2019	88.76	89.85	90.21
2020	86.60	83.70	89.27
2021	84.85	78.68	88.18
2022	86.43	79.75	87.00
Mean	84.58	92.98	88.33
SD	2.56	10.05	5.51

From the Table 7 depicts that the loan rate is expected to be at least 77.97 in 2013 for AXIS and 107.18 for ICICI Bank during 2015. The average rates of 84.58 for HDFC Bank and up to 92.98 ICICI Bank. The minimum ratio of HDFC Bank indicates that the risk of HDFC Bank is lower than that of CDR.

The maximum rate of ICICI Bank shows that there is a greater reliance on credit deposits. This disturbs the liquidity of banks compared to other banks. The ICICI Bank has the highest standard deviation level and HDFC Bank has the lowest standard deviation level

Table 8 Anova for Credit Deposit Ratio (CDR)

Source of Variation	ss	DF	MS	F	F Crit
Between Groups	353.97	2	176.985	F=3.84872	3.35
Within Groups	1241.6076	27	45.9855		
Total	1595.5777	29			

- **H**<sub>0</sub>:All private banks under study have on a same average of credit deposit ratio.
- **H**<sub>1</sub>: All private banks under study have on a difference average of credit deposit ratio

It found that from the Table 8, the calculated value (3.84) is greater than Critical value (3.35), therefore, the Null hypothesis (H0) is rejected and hence, it can be concluded that all private sector banks under study have a significant difference on Credit Deposit Ratio

# **Return on NET worth (RONW)**

RONW is used to measure the profitability of the bank; The amount of money that the banks generate from the investment of equity share holders.

Return on Net Worth = Net Income / Shareholders Equity

Table 9 Return on Equity / Net worth (%)

Year	HDFC	ICICI	AXIS
2013	18.57	12.48	15.64
2014	19.50	13.39	16.26
2015	16.47	13.89	16.46
2016	16.91	11.19	15.46
2017	16.26	10.11	6.59
2018	16.45	6.63	0.43
2019	14.12	3.19	7.01
2020	15.35	6.99	1.91
2021	15.27	11.21	6.48
2022	15.39	13.94	11.30
Mean	16.43	10.30	9.75
SD	1.61	3.61	6.09

Table 9 shows that the means that the price of selected private sector banks under study is at least 0.43 for Axis Bank in 2018 and a maximum of 19.50 for HDFC Bank during the year 2014.

The minimum average ratio for AXIS Bank is 9.75 and the maximum average ratio for HDFC Bank is 16.43. The minimum ratio of ICICI banks indicates that banks have less capacity to profit from the assets of shareholders than other private sector banks. The maximum ratio of HDFC Bank indicates that banks have greater capacity to profit from the assets of shareholders than other banks. The Axis Bank has the highest standard deviation level and the HDFC bank has the lowest Standard deviation level.

Table 10 Anova for Return on Equity / Net worth

Source of Variation	SS	DF	MS	F	F crit
Between Groups	274.6535	2	137.3268	F = 7.82433	3.35
Within Groups	473.8839	27	17.5513		
Total	748.5374	29		·	

- **H**<sub>0</sub>: All private banks under study have on a same average of return on net worth
- **H**<sub>1</sub>: All private banks under study have on a difference average of return on net worth

From the ANOVA table 10, it is inferred that since the calculated F value (7.82) more than F critical value (3.35) at the level of significance 0.05, accept the alternate hypothesis. i.e., All private sector banks under study have a difference average of return on net worth.

# **Business Employee (BPE)**

By this ratio banks measure the ability of management to effectively use their employee resources to generate profits. The total revenue of the bank is divided by the number of bank personnel.

Business Per Employee = Revenue /Number of Employees.

Table 11 Business/ Employee (Rs.)

Year	HDFC	ICICI	AXIS
2013	77,603,363.18	93,911,715.27	118,619,441.57
2014	98,340,460.49	92,849,708.72	120,464,715.54
2015	107,003,994.66	112,938,140.26	142,913,797.44
2016	115,472,348.91	118,696,176.03	138,973,029.46
2017	142,094,024.12	115,193,098.71	139,083,338.45

2018	163,972,185.69	129,753,214.80	149,842,826.65
2019	177,699,813.90	142,868,072.08	168,432,242.98
2020	183,054,361.58	142,596,981.88	163,410,991.87
2021	205,498,809.40	168,734,303.89	169,975,387.64
2022	206,813,042.29	181,738,412.40	178,222,555.05
Mean	347.51	413.07	424.79
SD	299.98	327.97	316.38

Table 11 above assumes that the minimum business range for ICICI bank registered 92,849,708.72 during 2014 and maximum of 206,813,042.29 for HDFC Bank during 2021. Minimum average ratio for HDFC Bank is 347.51 and maximum ratio of 424.79 f for Axis Bank. Axis Bank has a highest ratio, which shows that Axis Bank has more efficiency of employees in all banks, while HDFC Bank has the lowest performance per employee. AXIS Bank has the highest standard deviation level and 316.38 Bank has the lowest level of standard deviation.

Table 12 Anova for Business/ Employee

Source of Variation	SS	DF	MS	F	F crit
Between Groups	104079.2019	2	52039.6009	F= 0.5245	3.10
Within Groups	8631938.0657	87	99217.6789		
Total	9736017.2676	89			

- H<sub>0</sub>: All private banks under study have on a same average of business per employees
- H<sub>1</sub>: All private banks under study have on a difference average of business per employees

From the ANOVA Table 12 shows that as the calculated F value (0.52) is less than F critical value (3.10) at the 5 % level of significance, Null hypothesis (H0) is accepted, and it can be concluded that there is a significant relationship on the BPE among the private bank group.

## **Earning Ability**

Earnings quality represents future earnings sustainability and growth, the value of banking services, and the ability to maintain quality and consistently generate earnings. Earnings and profitability are considered for the adequacy of

interest rate policies and provisions. It essentially determines a bank's profitability and accounts for future sustainability and growth.

#### **Operating Profit Margin (OPM)**

This part shows how much cash is thrown after most of the expenses are completed. High operating profit margin means that the bank has good cost control.

Operating Profit Margin = Operating Earnings/ Revenue

**Table 13 Operating Profit Margin (%)** 

rable 15 Operating Front Wargin (70)					
Year	HDFC	ICICI	AXIS		
2013	-0.36	-0.05	-5.04		
2014	1.35	-1.39	-3.87		
2015	2.51	-2.03	-2.83		
2016	2.56	-10.61	-2.80		
2017	3.25	-17.91	-17.98		
2018	2.82	-19.36	-23.35		
2019	3.48	-17.58	-15.37		
2020	2.60	-11.38	-22.20		
2021	4.89	-3.50	-12.96		
2022	5.83	5.58	-3.25		
Mean	2.89	-7.82	-10.97		
SD	1.71	8.72	8.37		

13 shows that selected private sector banks have a range of at least -23.25 for Axis Bank during 2018 and a maximum of 5.83 for HDFC Bank during 2022. The minimum average ratio of -10.97 for Axis Bank and maximum ratio of 2.89 for HDFC Bank. The minimum ratio of Axis Bank indicates that there is less cost control capacity than other banks. The maximum ratio of HDFC Bank indicates that there is better cost control capacity than other private sector banks. AXIS Bank has the highest standard deviation and HDFC Bank has the lowest standard deviation.

**Table 14 Anova for Operating Profit Margin** 

Source of Variation	SS	DF	MS	F	F crit
Between Groups	1055.8299	2	527.915	F= 10.63252	3.35

Within Groups	1340.5759	27	49.651	
Total	2396.4058	29		

- **H**<sub>0</sub>: All private banks under study have on a same average of operating profit margin
- **H**<sub>1</sub>: All private banks under study have on a difference average of operating profit margin

From the ANOVA table 14, it is inferred that since the calculated F value (10.63) more than F critical value (3.35) at the level of significance 0.05, Null hypothesis (H0) is rejected and accept the alternate hypothesis. i.e., All private banks under study have a difference average of operating profit margin.

# **Net Profit Margin**

NPM shows how much of the profit remaining after all operating expenses, interest, tax is deducted from the total income of the bank.

Net Profit Margin = Total Revenue - Total Expenses/ Total Revenue = Net Profit/Total Revenue

**Table 15 Net Profit Margin (%)** 

Year	HDFC	ICICI	AXIS
2013	19.18	20.77	19.05
2014	20.61	22.20	20.29
2015	21.07	22.76	20.73
2016	20.41	18.44	20.06
2017	20.99	18.09	8.26
2018	21.79	12.33	0.60
2019	21.29	5.30	8.50
2020	22.86	10.60	2.59
2021	25.74	20.46	10.35
2022	28.93	27.02	19.33
Mean	22.29	17.80	12.98
SD	2.92	6.53	7.83

It is inferred from Table 15 states that selected private sector banks have a ratio of at least 0.60 for Axis Bank during 2018 and a maximum ratio of 27.02 for ICICI Bank during 2022. Minimum average ratio of 12.98 for Axis Bank and maximum ratio of 22.29 for HDFC Bank. The minimum ratio of Axis Bank indicates that axis banks have less profitability than other two banks. The maximum ratio of HDFC

Bank indicates that the bank has a good profitability compared to other two private sector banks. Axis Bank has the highest level of standard deviation and HDFC Bank has a below level.

**Table 16 Anova for Net Profit Margin** 

Source of Variation	ss	DF	MS	F	F Crit
Between Groups	433.6562	2	216.8281	F=5.78826	3.35
Within Groups	1011.4197	27	37.46		
Total	1445.0759	29			

- H<sub>0</sub>: All private banks under study have on a same average of net profit margin.
- H<sub>1</sub>: All private banks under study have on a difference average of net profit margin.

From the ANOVA table 16, it is shown that the calculated F value (5.78) more than F critical value (3.35) at the level of significance 0.05, Null hypothesis (H0) is rejected and accept alternative hypothesis. i.e., All private sector banks under study have on a difference average of net profit margin.

## **Liquidity Position**

With sufficient liquidity, a financial institution can raise sufficient funds by either increasing its liabilities or converting its assets into cash quickly and at a reasonable cost. A bank's excellent liquidity situation has a positive impact on its profitability. Cash and investments are the most liquid banking assets. This set of indicators assesses a bank's ability to meet its responsibilities.

## Cash Deposit Ratio (CDR)

It mentions how much bank funds are used for lending. Banks are divided by total deposits with total cash and RBI.

Cash Deposit Ratio=Liquid Asset/Total Deposit

**Table 17 Cash Deposit Ratio** 

Year	HDFC	ICICI	AXIS
2013	5.46	7.21	5.39
2014	6.02	6.54	5.97
2015	6.46	6.85	6.11
2016	5.77	6.74	6.2

2017	5.71	6.45	6.89
2018	9.95	6.17	7.64
2019	8.85	5.85	7.04
2020	5.75	5.14	10.10
2021	6.83	4.77	10.22
2022	7.85	5.32	9.60
Mean	6.87	6.10	7.52
SD	1.53	0.81	1.81

Table 17 indicates that selected private sector banks have a minimum ratio of 4.77for ICICI Bank during 2021 and a maximum of 10.22 for AXIS Bank during 2021. The Minimum average ratio for ICICI Bank is 6.10 and maximum average ratio of 7.52 for AXIS Bank. The minimum ratio of ICICI Bank indicates that ICICI Bank has less funds for lending out of total deposits. The maximum ratio of AXIS Bank indicates that there are more funds used for lending from total deposits than other two private sector banks. AXIS Bank has the highest level of standard deviation and ICICI Bank has the lowest level of standard deviation.

Table 18 Anova for Cash Deposit Ratio

Source of Variation	ss	DF	MS	F	F crit
Between Groups	9.9889	2	4.9944	F=2.38555	3.35
Within Groups	56.5279	27	2.0936		
Total	66.5168	29			

- **H**<sub>0</sub>: All private banks under study have on a same average of cash deposit ratio
- **H**<sub>1</sub>: All private banks under study have on a difference average of cash deposit Ratio

Table 18 depicts that the calculated value (2.38) is less than critical value (3.35), the Null hypothesis (H0) is accepted and rejected alternative hypothesis, hence it can be concluded that all private banks under study have on a significance relationship of average of cash deposit ratio (CDR)

## Liquidity Ratio (LR)

It refers to highly liquid assets held by financial institution in order to meet short- term obligations. It's shown the capacity of bank to respect the demand from depositor during a particular year.

Liquidity Ratio= Liquid Assets/Total Assets

**Table 19 Liquid Assets to Total Assets** 

Year	HDFC	ICICI	AXIS
2013	11.56	13.13	8.08
2014	13.16	12.48	9.71
2015	9.39	10.42	9.96
2016	10.87	16.30	11.64
2017	10.56	17.91	15.94
2018	15.02	17.73	13.57
2019	10.49	16.81	15.88
2020	9.18	17.77	19.96
2021	9.47	16.79	14.26
2022	11.51	16.49	15.94
Mean	11.12	15.58	13.49
SD	1.82	2.61	3.65

Table 19 indicates that chosen among the private sector banks have a minimum ratio of 8.08 for AXIS Bank during 2013 and a maximum of 19.96 for same INDUSIND Bank during year 2020. The minimum average ratio 11.12 for HDFC Bank and maximum mean ratio of 15.11 for ICICI Bank. The minimum ratio of HDFC Bank indicates that this Bank shows low capacity to respect demand for money from a depositor during the specified year. The maximum ratio indicates that ICICI Bank has greater capacity to respect the demand for money from a depositor during a particular year than other private sector banks. Axis Bank has the highest level of standard deviation and HDFC Bank has the lowest level of standard deviation.

Table 20 ANOVA for Liquid Assets to Total
Assets Ratio

Source of Variation	SS	DF	MS	F	F crit
Between Groups	99.6816	2	49.8408	F = 6.37788	3.35
Within Groups	210.9953	27	7.8146		
Total	310.677	29			

- H<sub>0</sub>: All private banks under study have on a same average of Liquid ratio
- **H**<sub>1</sub>: All private banks under study have on a difference average of Liquid ratio

Table 20 specify that the calculated value (6.37) is greater than critical value (3.35), the Null hypothesis (H0) is rejected and accepted alternative hypothesis, hence it can be concluded that all private banks under study have on a difference average of Liquidity ratio.

# **Suggestion and Recommendations**

By taking into accounts all the parameters of CAMEL's Approach, it is clear that HDFC Bank is in the best position when compared to the other banks under consideration, according to the CAMEL Approach. While HDFC Bank does well overall in terms of Capital adequacy, Return on Asset, operating profit, earning capability, it lags significantly in terms of management effectiveness.

Axis, on the other hand, is in a very poor position compared to other private banks under investigation due to its poor performance in the context of Capital Adequacy, Asset Quality, and Earnings Ability while performing better at Business per Employee and Cash Deposit Ratio. Axis Bank therefore needs to improve its position in several areas of weakness. Therefore, policymakers of related low-level banks should take the necessary steps and try to find solutions to remedy vulnerabilities through this finding.

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