

Company analysis of major private banks in India as a part of fundamental analysis**Dr.Madhusudhan Reddy****Associate Professor****DVM College of Business Management, Nalgonda, Telanagna State. India.****Abstract**

The study represents the brief idea about Indian banking sector and company analysis under fundamental analysis of private sector banks. Investment decision is a vital part in our economic life. Investment decisions are to be made in a systematic manner with two approaches such as technical and fundamental analysis. The present study aims to analyse the company analysis of major private banks in India with a sample size of three banks such as ICICI, HDFC and Axis Bank for a period from 2009-10 to 2013-14. The present study considers the variables such as Operating Profit Margin, Net Profit Margin, Return On Equity, Earnings Per Share, Price-Earnings Ratio, Dividends Per Share, Dividend Payout Ratio and Compound Annual Growth Rate. In this research paper, I try to evaluate the company analysis by adopting the statistical techniques such as standard deviation, Average, One way Anova and Hypothesis.

Keywords: *Fundamental analysis, Operating Profit Margin, Net Profit Margin, Return On Equity, Earnings Per Share, Price Earnings Ratio, Dividend Per Share, Dividend Per Share and CAGR.*

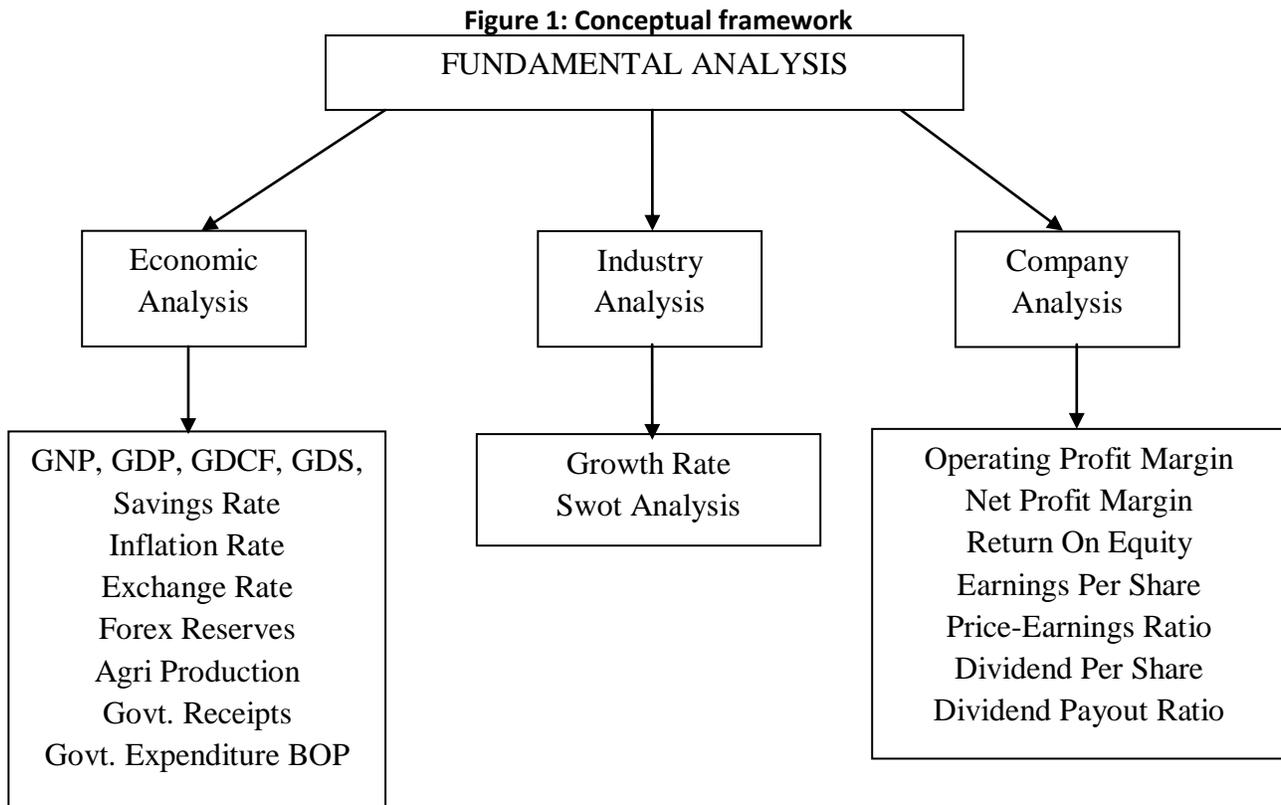
Introduction

Without a sound and effective banking system in India, it cannot have a healthy economy. The banking system of India should not only be hassle free but it should be able to meet new challenges posed by the technology and any other external and internal factors. For the past three decades India's banking system has several outstanding achievements to its credit. It is no longer confined to only metropolitans or cosmopolitans in India; in fact, Indian banking system has reached even to the remote corners of the country. This is one of the main reasons of India's growth process. The government's regular policy for Indian bank since 1969 has paid rich dividends with the nationalisation of 14 major private banks of India. Not long ago, an account holder had to wait for hours at the bank counters for getting a draft or for withdrawing his own money. Today, he has a choice. Gone are days when the most efficient bank transferred money from one branch to other in two days. Now it is simple as instant messaging or dial a pizza. Money has become the order of the day.

Fundamental analysis

Fundamental analysis attempts to determine the value of a company by analysing the financial data from the annual report and using other qualitative data about the company and the environment in which they operate. This value is often called 'intrinsic value'. Fundamental analysis assumes that over the long term, a stock price will reflect the company's intrinsic value. So, fundamental analysis an approach to determine " what ought to be price" otherwise, known as intrinsic or true value of a security.

Company analysis is the final stage of fundamental analysis. The economic analysis provides the investor a broad outline of the prospects of growth in the economy. The industry analysis helps investors to select the industry in which investment would be rewarding. The company analysis facilitates the investors to select the company where they should invest their money. Company analysis was done based on past five years data available and ratios used are as follows. A conceptual framework for the study is proposed and is presented in the figure 1..



Source: Asia Pacific Finance and Accounting Review 1.3 (2013): 37-55

A brief review of literature would help the researcher, reader and other research scholars in gaining an insight into the studies, which were made in areas related to the subject of this study. The findings of some of the studies are briefly summarized as follows.

Review of literature

P.Hanmantha Rao and Subendu Dutta (2014) have emphasized that the banking sector has always been one of the important sectors for investment. They analysed how the internal factors influence the investment decisions of investors by considering general and comprehensive profitability ratios.

Hossein Khanifar (2012) analysed the factors which affect prospective investors investment decisions by performing fundamental analysis. The study shows that EPS, profit margin, P/E ratio, sales have highest importance in analysts decision followed by economy related factor and industry related factor.

Mishra, Sarma and Avadhanam (2011) found that Indian banks have experienced significant change in the levels of competition after the advent of liberalization in the 90s and the entry of private players.

Ramudu and Rao (2006) have analysed the profitability of the three major banks in India such as SBI, ICICI and HDFC for the period from 200-2005 and examined the comparative efficiency of SBI, ICICI and HDFC.

Objectives of the study

1. To analyse the profitability position of the sample banking companies.
2. To make the comparative analysis among the fundamentals of the sample banks.

Methodology

Source of Data

The study is based on secondary data. The data pertaining to sample banks were collected from the annual reports of the respective banks. magazines and journals relating to finance have also been used as sources of data. The present study is descriptive and analytical in nature.

Statistical Tools

To analyse the fundamentals of selected banks, the important statistical techniques such as arithmetic mean, standard deviation, compound annual growth rate (CAGR) and one – way analysis of variance (ANOVA) have been used for the study.

Period of Study

The study covers a period of five years from 2009-10 to 2013-2014.

Sampling

The sample for the present study consists of three major private banks in India such as Industrial Credit and Investment Corporation of India(ICICI), Housing Development Finance Corporation(HDFC) and AXIS bank.

Key variables

The variable that have been adopted for the present study are Operating Profit Margin (OPM), Net Profit Margin (NPM), Return On Equity (ROE), Earning Per Share (EPS), Price-Earnings Ratio (PER), Dividend Per Share (DPS) and Dividend Payout Ratio (DPR).

Hypotheses

H_0 = There is no significant difference between the selected variables of the sample banking companies.

H_A = There is significant difference between selected variables of the sample banking companies.

Scope of the Study

The research study covers three important major private banks; Industrial Credit and Investment Corporation of India(ICICI), Housing Development Finance Corporation(HDFC) and AXIS bank.

Limitations of the study

1. The present study is based on only secondary data.
2. Analysis is restricted to only banking sector.
3. Study is only confined to evaluate the company analysis as part of the fundamental analysis of three major private banks.

Data analysis and interpretation

- * **Operating Profit Margin (OPM):** Operating profit margin also known as operating margin is the ratio of [operating income](#) divided by net sales, usually presented in percent. It is a measurement of what proportion of a company's revenue is left over after paying for variable costs of production such as wages, raw materials, etc. This ratio is used to measure a company's pricing strategy and operating efficiency. Table 1 shows the operating profit margin of three major private banks for the last five years. It can be clearly seen from the this table that the average operating profit margin of ICICI bank is highest in the three banks followed by HDFC bank and Axis bank. So, we can understand that ICICI bank controls operating expenses effectively than HDFC and Axis bank. Standard deviation is a measure that is used to quantify the amount of variation or dispersion of a set of data values. As compared the standard deviation of OPM of three banks, the OPM of Axis bank has the highest degree of variability.

Table 1. Operating Profit Margin(OPM)

Year	ICICI	HDFC	AXIS
2009-10	29.33	24.36	25.58
2010-11	27.74	19.5	13.67
2011-12	21.37	15.57	10.69
2012-13	18.35	14.90	11.41
2013-14	20.47	17.20	14.40
Average	23.45	18.31	15.15
SD	4.80	3.82	6.03

Source: Annual reports of the banks

Table 2. One - Way Anova for OPM

Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	175.6080933	2	87.80404667	3.55964035	0.061130533	3.885293835
Within Groups	295.9986	12	24.66655			
Total	471.6066933	14				

The following hypothesis has been used to compare and test the OPM of the banks.

- Null Hypothesis 1 (H_{01}): There is no significant difference between OPM of all the three major private banks.

According to table 2, since the calculated value (3.5596) is lower than the tabulated value (3.8852) at 5% level of significance, the null hypothesis 1 is accepted and therefore I conclude that there is no significance difference between OPM of ICICI bank, HDFC bank and AXIS bank.

- * **Net Profit Margin (NPM):** Net profit margin is the percentage of revenue remaining after all operating expenses, interest, taxes and preference dividend have been deducted from a company's total revenue. Table 3 indicates the net profit margin of the banks selected for the study. The average NPM of Axis bank is higher than other two banks. It is revealed that Axis bank and HDFC bank are controlling the costs properly as compared with ICICI banks whose NPM is 14.51%.

Table 3. Net Profit Margin(NPM)

Year	ICICI	HDFC	AXIS
2009-10	12.13	14.76	16.10
2010-11	15.79	16.18	17.12
2011-12	16.14	15.88	15.47
2012-13	15.74	16.04	15.35
2013-14	12.73	17.28	16.34
Average	14.51	16.03	16.08
SD	1.91	0.90	0.72

Source: Annual reports of the banks

Table 4. One - Way Anova for NPM

Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	7.972813333	2	3.986406667	2.401941763	0.132626253	3.885293835
Within Groups	19.91592	12	1.65966			
Total	27.88873333	14				

For testing the NPM of all the three private banks, the below hypothesis is used.

- Null Hypothesis 2 (H_{02}): There is no significant difference between NPM of all the three major private banks.

According to table 4, since the calculated value (2.4019) is lower than the tabulated value (3.8852) at 5% level of significance, the null hypothesis 2 is accepted and therefore it is concluded that there is no significance difference between NPM of ICICI bank, HDFC bank and AXIS bank.

- * **Return On Equity (ROE):** ROE is a ratio of earnings after taxes and preferred dividend to owner's equity. It indicates how much profit is generated using the owner's capital. Table 5 shows the return on equity of the selected banks for the last 5 years. Among three banks, ICICI bank has the highest average ROE followed by HDFC bank with 2.10% and Axis bank with 1.06%. however, there is high degree of variability in the ROE of ICICI bank as compared with other two banks. The Axis bank has least volatility in ROE.

Table 5. Return On Equity

Year	ICICI	HDFC	AXIS
2009-10	7.79	16.8	19.15
2010-11	9.35	16.52	19.34
2011-12	11.2	18.69	20.29
2012-13	13.1	20.34	18.53
2013-14	14.02	21.28	17.43
Average	11.09	18.73	18.95
SD	2.58	2.10	1.06

Source: Annual reports of the banks

Table 6. One - Way Anova for ROE

Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	200.0732933	2	100.0366467	24.63234832	5.6471E05	3.885293835
Within Groups	48.73428	12	4.06119			
Total	248.8075733	14				

To compare and test the NPM of selected banks, the below hypothesis has been adopted.

- Null Hypothesis 3 (H_{03}): There is no significant difference between ROE of all the three major private banks.

Since the calculated value (24.6323) is higher than the tabulated value (3.8852) at 5% level of significance, the null hypothesis 3 is rejected and hence it is concluded that there is significance difference between ROE of ICICI bank, HDFC bank and AXIS bank.

- * **Earnings Per Share (EPS):** The term **earnings per share** represents the portion of a company's earnings after deducting taxes and preferred stock dividends, that is allocated to each share of common stock. The figure can be calculated simply by dividing net income earned by the total number of outstanding shares in a period of time. It is clearly depicted from the table 7 that Axis bank has the highest average of EPS at 98.10% which is very high followed by ICICI bank at 58.94% and HDFC bank at 47.64%. As far as variability of EPS is concerned, HDFC bank has highest variability that followed by Axis bank and ICICI bank.

Table 7. Earnings Per Share

Year	ICICI	HDFC	AXIS
2009-10	36.14	67.6	62.06
2010-11	45.27	85	82.54
2011-12	56.09	22.01	102.67
2012-13	72.2	28.27	110.68
2013-14	84.99	35.34	132.56
Average	58.94	47.64	98.10
SD	19.81	27.28	26.96

Source: Annual reports of the banks

Table 8. One - Way Anova for EPS

Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	7012.30516	2	3506.15258	5.644126946	0.018718279	3.885293835
Within Groups	7454.44448	12	621.2037067			
Total	14466.74964	14				

Earnings per share (EPS) of selected banks has been compared and tested with the following hypothesis.

- Null Hypothesis 4 (H_{04}): There is no significant difference between EPS of all the three major private banks.

Since the calculated value (5.6441) is higher than the tabulated value (3.8852) at 5% level of significance, the null hypothesis 4 has been rejected and hence it is concluded that there is significance difference between EPS of ICICI bank, HDFC bank and AXIS bank.

- * **Price Earnings Ratio (PER):** Price earnings ratio (P/E ratio) is the ratio of a company's share price to its earnings per share. As the name implies, to calculate the P/E, you simply take the current stock price of a company and divide by its earnings per share (EPS). What I observed in the table 9 is that the average price earnings ratio of HDFC is higher at 24.775 followed by ICICI at 20.81 % and Axis bank at 10.315. The higher the P/E ratio, the better for the wealth of shareholders. In case of Axis bank it is far less than other two banks.

Table 9. Price Earnings Ratio

Year	ICICI	HDFC	AXIS
2009-10	27.5	28.62	18.84
2010-11	25.9	27.59	17.01
2011-12	15.82	24.39	11.16
2012-13	14.48	22.08	2.35
2013-14	20.34	21.19	2.21
Average	20.81	24.77	10.31
SD	5.83	3.28	7.86

Source: Annual reports of the banks

Table 10. One - Way Anova for PER

Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	558.24132	2	279.12066	7.859404137	0.006583247	3.885293835
Within Groups	426.17072	12	35.51422667			
Total	984.41204	14				

To examine and test the Price earnings ratio (PER) of sample banks, the following hypothesis has been used.

- Null Hypothesis 5 (H_{05}): There is no significant difference between PER of all the three major private banks.

As the calculated value (7.8594) is higher than the tabulated value (3.8852) at 5% level of significance, the null hypothesis 5 has been rejected and hence it is concluded that there is significance difference between PER of ICICI bank, HDFC bank and AXIS bank.

- * **Dividend Per Share (DPS):** Dividend per share refers to the sum of declared dividends for every ordinary share. Dividend per share can be calculated by dividing the total dividends paid out by the number of outstanding ordinary shares. The higher DPS indicates higher earnings for the shareholders. The trends of DPS of sample banks are reflected in the table 11. It is observed that Axis bank has the highest DPS as compared to ICICI bank and HDFC bank which have same average DPS i.e., Rs.9.03. As far as the degree of variability is concerned, Axis bank has lowest degree of variability whereas both ICICI and HDFC bank have similar variability.

Table 11. Dividend Per Share

Year	ICICI	HDFC	AXIS
2009-10	12	12	12
2010-11	16.5	16.5	14
2011-12	4.3	4.3	16
2012-13	5.5	5.5	18
2013-14	6.85	6.85	20
Average	9.03	9.03	16
SD	5.10	5.10	3.16

Source: Annual reports of the banks

Table 12. One - Way Anova for DPS

Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	161.9363333	2	80.96816667	3.911253703	0.049219358	3.885293835
Within Groups	248.416	12	20.70133333			
Total	410.3523333	14				

The following hypothesis has been used to compare and test the DPS of the sample banks.

- Null Hypothesis 6 (H_{06}): There is no significant difference between DPS of all the three major private banks.

According to table 12, since the calculated value (3.9112) is higher than the tabulated value (3.8852) at 5% level of significance, the null hypothesis 6 is rejected and therefore I conclude that there is significance difference between DPS of ICICI bank, HDFC bank and AXIS bank.

- * **Dividend Payout Ratio (DPR):** The dividend payout ratio is the amount of dividends paid to shareholders relative to the amount of total net income of a company. The amount that is not paid out in dividends to shareholders is held by the company for growth. The amount that is kept by the company is called retained earnings. This ratio indicates what percentage of earnings are distributed to the shareholders. The higher ratio implies higher earnings to the shareholders. The table 13 reveals the position of DPR of all the sample banks. It can be observed that ICICI banks much dividends to its shareholders as compared with HDFC and Axis bank. Axis bank reflects the higher degree of variability as its standard deviation is the highest than ICICI and HDFC bank.

Table 13. Dividend Payout Ratio

Year	ICICI	HDFC	AXIS
2009-10	33.2	17.75	22.56
2010-11	30.93	19.41	16.91
2011-12	32.82	20.54	15.51
2012-13	27.71	19.46	16.29
2013-14	27.07	19.38	15.11
Average	30.35	19.31	17.28
SD	2.84	1.00	3.03

Source: Annual reports of the banks

Table 14. One - Way Anova for DPR

Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	494.65228	2	247.32614	40.59589171	4.5585E-06	3.885293835
Within Groups	73.10872	12	6.092393333			
Total	567.761	14				

By using the following hypothesis, the DPR position of the sample three banks has been compared and tested.

- Null Hypothesis 7 (H_{07}): There is no significant difference between DPR of all the three major private banks.

Since the calculated value (40.5958) is higher than the tabulated value (3.8852) at 5% level of significance, the null hypothesis 7 is rejected and therefore I conclude that there is significance difference between DPR of ICICI bank, HDFC bank and AXIS bank.

- * **Compound Annual Growth Rate (CAGR):** The year-over-growth rate of an investment over a specific period of time. The compound annual growth rate is calculated by taking nth root of the total percentage growth rate, where the number of years in the period is being considered. CAGR is not the actual return in reality. It is an imaginary number that describes the rate which an investment would have grown if it grew at steady rate.

$$CAGR = \left[\frac{\text{Ending Value}}{\text{Beginning Value}} \right]^{\frac{1}{\text{No.of years}}} - 1$$

Table 15. Compound Annual Growth Rate

	ICICI	HDFC	AXIS
OPM	-6.94%	-6.72%	-10.86%
NPM	0.97%	3.20%	0.30%
ROE	12.47%	4.84%	-1.86%
EPS	18.65%	-12.17%	16.39%
PER	-5.85%	-5.83%	-34.86%
DPS	13.90%	-10.61%	10.76%
DPR	-4%	1.77%	-7.70%

It can be seen from the Table 15 that the CAGR for all the three banks is negative, however, CAGR of HDFC is less negative than that of ICICI Banks and Axis Bank. In regard to NPM, CAGR of all the banks is positive and HDFC Bank has highest CAGR. HDFC Bank has the highest CAGR in ROE, EPS and DPS as compared to other banks.

Conclusion

In order to invest in companies, company analysis is first of all significant in fundamental analysis which enables the investors to understand economic performance of the organization. The below are the main points which are found in my study of three sample banks.

- 1) ICICI has resulted well in view of OPM as compared to other two banks but in case of NPM, ICICI bank shows less percentage than other banks and it has less consistency.
- 2) HDFC and Axis Banks have performed better than ICICI on the parameter ROE and Axis bank has more consistency in ROE than HDFC and Axis Bank.
- 3) Axis bank scored better performance in EPS and DPS over the other two banks.
- 4) It is noted that ICICI Bank provided highest dividend payout to its shareholders than other two banks.
- 5) HDFC Bank has the highest Price – Earnings ratio followed by ICICI Bank and Axis Bank.
- 6) CAGR of OPM is negative for all the banks
- 7) CAGR of ICICI on the parameters like ROE, EPS and DPS is highest than HDFC and Axis Bank.

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