



ANALYTICAL STUDY ON THE VOLATILITY OF SECURITIES TRADED ON BSE SENSEX

by

T.SANGEETHA
Reg. No. 1120400074

Under the guidance of

MR.S.SWAMINATHAN
PROFESSOR

A PROJECT REPORT
submitted

In partial fulfillment of the requirements
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BONAFIDE CERTIFICATE

Certified that this project report titled "ANALYTICAL STUDY ON THE VOLATILITY OF SECURITIES TRADED ON BSE SENSEX" is the bonafide work of Ms.T.SANGEETHA, who carried out the project under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Faculty Guide
Mr.S.Swaminathan
Professor
KCTBS

Director
Dr. Vijila Kennedy
KCT BS

Submitted for the Project Viva-Voce examination held on _____

Internal Examiner

External Examiner

DECLARATION

I, hereby declare that this project report entitled as "ANALYTICAL STUDY ON THE VOLATILITY OF SECURITIES TRADED ON BSE SENSEX", has undertaken for academic purpose submitted to Anna University in partial fulfillment of requirement for the award of degree of Master of Business Administration. The project report is the record of the original work done by me under the guidance of Mr.S.Swaminathan, Professor during the academic year 2012-2013.

I, also declare hereby, that the information given in this report is correct to the best of my knowledge and behalf.

Place: Coimbatore

Date:

.....
(T.SANGEETHA)

I express my gratitude to our beloved chairman **Arutchelvar Dr. N. MAHALINGAM and Management** for the prime guiding spirit of **Kumaraguru College of Technology** for giving me an opportunity to undergo the MBA Degree course and to undertake this project work.

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TABLE OF CONTENTS

LIST OF TABLES

CHAPTER	TITLE	Pg.No
	CHAPTER 1:INTRODUCTION	
1.1	Introduction to the study	1
1.2	Industry profile	7
1.3	Company profile	11
1.4	Objective of the study	17
1.5	Statement of the problem	17
1.6	Scope of the study	17
	CHAPTER 2: REVIEW OF LITERATURE	
2	Review of literature	18
	CHAPTER 3: RESEARCH METHODOLOGY	
3.1	Types of research	20
3.2	Data and source of data	20
3.3	Time period covered	20
3.4	Statistical tools used	20
3.5	Limitations of the study	22
4	CHAPTER 4: ANALYSIS & INTERPRETATION	
5	CHAPTER 5: FINDINGS, SUGGESTIONS & CONCLUSIONS	
5.1	Findings	59
5.2	Suggestions	59
5.3	Conclusion	59
5.4	Scope for further study	60
	BIBLIOGRAPHY	60

TABLE NO	TITLES	PG NO
4.1.1	TABLE SHOWING THE VOLATILITY OF AXIS BANK	23
4.1.2	TABLE SHOWING THREE QUARTER MOVING AVERAGE OF AXIS BANK	24
4.2.1	TABLE SHOWING THE VOLATILITY OF BANK OF BARODA	25
4.2.2	TABLE SHOWING THREE QUARTER MOVING AVERAGE OF BANK OF BARODA	26
4.3.1	TABLE SHOWING THE VOLATILITY OF BANK OF INDIA	28
4.3.2	TABLE SHOWING THREE QUARTER MOVING AVERAGE OF BANK OF INDIA	29
4.4.1	TABLE SHOWING THE VOLATILITY OF CANARA BANK	31
4.4.2	TABLE SHOWING THREE QUARTER MOVING AVERAGE OF CANARA BANK	32
4.5.1	TABLE SHOWING THE VOLATILITY OF FEDERAL BANK	33
4.5.2	TABLE SHOWING THREE QUARTER MOVING AVERAGE OF FEDERAL BANK	34
4.6.1	TABLE SHOWING THE VOLATILITY OF HDFC BANK	36
4.6.2	TABLE SHOWING THREE QUARTER MOVING AVERAGE OF HDFC BANK	37
4.7.1	TABLE SHOWING THE VOLATILITY OF ICICI BANK	38
4.7.2	TABLE SHOWING THREE QUARTER MOVING AVERAGE OF ICICI BANK	39

4.8.1	TABLE SHOWING THE VOLATILITY OF IDBI BANK	41
4.8.2	TABLE SHOWING THREE QUARTER MOVING AVERAGE OF IDBI BANK	42
4.9.1	TABLE SHOWING THE VOLATILITY OF INDUSIND BANK	43
4.9.2	TABLE SHOWING THREE QUARTER MOVING AVERAGE OF INDUSIND BANK	44
4.10.1	TABLE SHOWING THE VOLATILITY OF KOTAK MAHINDRA BANK	46
4.10.2	TABLE SHOWING THREE QUARTER MOVING AVERAGE OF KOTAK MAHINDRA	47
4.11.1	TABLE SHOWING THE VOLATILITY OF PNB	48
4.11.2	TABLE SHOWING THREE QUARTER MOVING AVERAGE OF PNB	49
4.12.1	TABLE SHOWING THE VOLATILITY OF SBI	51
4.12.2	TABLE SHOWING THREE QUARTER MOVING AVERAGE OF SBI	52
4.13.1	TABLE SHOWING THE VOLATILITY OF UNION BANK	53
4.13.2	TABLE SHOWING THREE QUARTER MOVING AVERAGE OF UNION BANK	54
4.14.1	TABLE SHOWING THE VOLATILITY OF YES BANK	56
4.14.2	TABLE SHOWING THREE QUARTER MOVING AVERAGE OF YES BANK	57

LIST OF CHARTS

TABLE NO	CHARTS	PG NO
4.1.1	MOVEMENT OF BETA FOR AXIS BANK	23
4.1.2	MOVING AVERAGE FOR AXIS BANK	25
4.2.1	MOVEMENT OF BETA FOR BANK OF BARODA	26
4.2.2	MOVING AVERAGE FOR BANK OF BARODA	27
4.3.1	MOVEMENT OF BETA FOR BANK OF INDIA	29
4.3.2	MOVING AVERAGE FOR BANK OF INDIA	30
4.4.1	MOVEMENT OF BETA FOR CANARA BANK	31
4.4.2	MOVING AVERAGE FOR CANARA BANK	33
4.5.1	MOVEMENT OF BETA FOR FEDERAL BANK	34
4.5.2	MOVING AVERAGE FOR FEDERAL BANK	35
4.6.1	MOVEMENT OF BETA FOR HDFC BANK	36
4.6.2	MOVING AVERAGE FOR HDFC BANK	38
4.7.1	MOVEMENT OF BETA FOR ICICI BANK	39
4.7.2	MOVING AVERAGE FOR ICICI BANK	40
4.8.1	MOVEMENT OF BETA FOR IDBI BANK	41
4.8.2	MOVING AVERAGE FOR IDBI BANK	43

4.9.1	MOVEMENT OF BETA FOR INDUSIND BANK	44
4.9.2	MOVING AVERAGE FOR INDUSIND BANK	45
4.10.1	MOVEMENT OF BETA FOR KOTAK MAHINDRA BANK	46
4.10.2	MOVING AVERAGE FOR KOTAK MAHINDRA BANK	48
4.11.1	MOVEMENT OF BETA FOR PNB	49
4.11.2	MOVING AVERAGE FOR PNB	51
4.12.1	MOVEMENT OF BETA FOR SBI	53
4.12.2	MOVING AVERAGE FOR SBI	54
4.13.1	MOVEMENT OF BETA FOR UNION BANK	54
4.13.2	MOVING AVERAGE FOR UNION BANK	55
4.14.1	MOVEMENT OF BETA FOR YES BANK	56
4.14.2	MOVING AVERAGE FOR YES BANK	58

CHAPTER 1

CHAPTER 2

CHAPTER 4

CHAPTER 3

CHAPTER 5

CHAPTER 1: INTRODUCTION

1.1 INTRODUCTION TO THE STUDY

Bombay Stock Exchange has been highly volatility in recent years. Volatility brings opportunity and risk to traders and investors. There are many reasons for Volatility to occur in share markets. Changes in demand and supply for the product of an industry that uses Bombay stock Exchange as an input may lead to fluctuations in prices of Bombay stock Exchange.

The introduction of the study is the Indian stock market is one of the oldest stock markets in Asia with a glorious past that caters to the huge population of India and gives them investment opportunities.

BSE also provides a host of other services to capital market participants including risk management, clearing, settlement, market data services and education. It has a global reach with customers around the world and a nation-wide presence. BSE systems and processes are designed to safeguard market integrity, drive the growth of the Indian capital market and Stimulate innovation and competition across all market segments.

The major activities of these reforms have been to improve market efficiency, enhancing transparency and bringing the Indian capital market up to international standards. With over 25 million shareholders, India has the third largest investor base in the world after USA and Japan. Over 7500 companies are listed on the Indian stock exchanges (more than the number of companies listed in developed markets of Japan, UK, Germany, France, Australia, Switzerland, Canada and Hong Kong.).The Indian capital market is significant in terms of the degree of development, volume of trading, transparency and its tremendous growth potential. India's market capitalization was the highest among the emerging markets.

THEORITICAL BACKGROUND OF THE STUDY:

VOLATILITY

Volatility refers to the amount of uncertainty or risk about the size of changes in a security's value. Stock market volatility indicates the degree of price variation between the share prices during a particular period and it is a symptom of a highly liquid stock market.

indication of leveling off, you can expect to see the stock price rise as investors bid up this attractive company.

On the other hand, if the profit picture is flat or, worse, declining with no change in sight, look for investors to abandon the stock and the price to fall.

These are simple examples of changes in fundamentals. Other, more complex and subtle changes can occur that may not dramatically affect the stock price immediately (increased debt, a poor acquisition and so on can also trigger price changes).The changes in the underlying business have a direct impact on the stock's price. Smart investors spot the subtle changes before they become price-movers and take the appropriate action.

Sector Changes

Changes in the stock's sector can have positive or negative impact on price too. Some sectors or industries are cyclical in nature and you should know that would affect price. However, when whole sectors catch of fire or burn up, even those companies that have solid fundamentals are pulled along with the rest of the sector.

Market Swings

The market goes up and the market goes down. That's about all you can say with certainty concerning the stock market. As the market moves up and down, your stock may move with or against it. Most large-cap stocks will follow the market to some degree, but smaller companies may not get the same push every time.

In general, a strong market move either up or down will carry more stocks with it than not, so your stock may be up or down for no other reason than the market was up or down.

- Price volatility presents opportunities to buy assets cheaply and sell when overpriced.
- When certain cash flows from selling a security are needed at a specific future date, higher volatility means a greater chance of a shortfall.
- Higher volatility of returns while saving for retirement results in a wider distribution of possible final portfolio values.

Pricing of securities depends on volatility of each asset. An increase in stock market volatility brings a large stock price change of advances or declines. It has an impact on business investment spending and economic growth through a number of channels. Changes in local or global economic and political environment influence the share price movements and show the state of stock market to the general public.

TYPES OF VOLATILITY:

There are two main types of stock volatility including **historical volatility** and **implied volatility** that are used in the options markets.

➤ Historical volatility

Historical volatility, often referred to as actual volatility and realized volatility, is the measure of a stock's price movement based on historical prices (stock price history) and it is used to measure how active a stock price typically is over time. It measures the fluctuations in the share price, and more specifically it is measured by taking the daily percentage price changes in a stock and calculating the average over a specific time frame.

➤ Implied volatility

Implied volatility is the current volatility of a stock and is estimated by its option price. In other words, the implied stock price volatility is that level of volatility that will calculate a fair value that is equal to the current trading option price.

Fundamentals

Clearly, the most direct influence on a stock's price is a change in the economic fundamentals of the business. If revenues and profits are on a steep upward trend with no

- Higher volatility of return when retired gives withdrawals a larger permanent impact on the portfolio's value.

Stock Exchange:

A stock exchange is an institution, organization or association that serves as a market for trading financial instruments such as stocks, bonds and their related derivatives. The stock exchange provide a trading platform, where buyers and sellers can meet to transact their securities. Stock exchanges in India, under the overall supervision of the regulatory authority, the Securities and Exchange Board of India (SEBI). Exchanges make money in several different areas. Listings, sales, and selling market statistics are some of the various ways that they produce revenue. There are the 2 important markets in stock exchange

- Primary market
- Secondary Market

Bombay Stock Exchange (BSE):

The Bombay Stock Exchange is the oldest exchange in Asia. In 1956, the BSE became the first stock exchange to be recognized by the Indian Government under the Securities Contracts Regulation Act. The Bombay Stock Exchange developed the BSE SENSEX in 1986, giving the BSE a means to measure overall performance of the exchange.

In 2000 the BSE used this index to open its derivatives market, trading SENSEX futures contracts. The development of SENSEX options along with equity derivatives followed in 2001 and 2002, expanding the BSE's trading platform. Historically an open outcry floor trading exchange, the Bombay Stock Exchange switched to an electronic trading system in 1995. It took the exchange only fifty days to make this transition. This automated, screen-based trading platform called BSE On-line trading (BOLT) currently has a capacity of 8 million orders per day. The BSE has also introduced the world's first centralized exchange-based internet trading system, BSEWEBx.co.in to enable investors anywhere in the world to trade on the BSE platform.

The equity market capitalization of the companies listed on the BSE was US\$1 trillion as of December 2011, making it the 6th largest stock exchange in Asia and the 14th largest in the world. The BSE has the largest number of listed companies in the world.

National Stock Exchange (NSE):

The National Stock Exchange of India was set up by Government of India on the recommendation of Pherwani Committee in 1991. Promoted by leading financial institutions essentially led by IDBI at the behest of the Government of India; it was incorporated in November 1992 as a tax-paying company. In April 1993, it was recognized as a stock exchange under the Securities Contracts Regulation, 1956. NSE commenced operations in the Wholesale Debt Market segment in June 1994. The Capital market (Equities) segment of the NSE commenced operations in November 1994, while operations in the Derivatives segment commenced in June 2000. NSE has a market capitalization of around US\$985 billion and over 1,646 listings as of December 2011.

The NSE's key index is the S&P CNX Nifty, known as the NSE NIFTY, an index of fifty major stocks weighted by market capitalization. NSE is mutually owned by a set of leading financial institutions, banks, insurance companies and other financial intermediaries in India but its ownership and management operate as separate entities. NSE is the third largest Stock Exchange in the world in terms of the number of trades in equities. It is the second fastest growing stock exchange in the world with a recorded growth of 16.6%. NSE also set up as index services firm known as India Index Services & Products Limited (IISL) and has launched several stock indices.

Index

9001:2000 certifications. It is also the first Exchange in the country and second in the world to receive Information Security Management System Standard BSE 7799-2-2002 certification for its On-Line trading System. It operates one of the most respected capital market educational institutes in the country (the BSE Institute Ltd.). BSE also provides depository services through its Central Depository Services Ltd. (CDSL) arm.

BSE is popular equity index the S&P BSE SENSEX - is India's most widely tracked stock market benchmark index. Its recent milestones include the launching of BRICSMART indices derivatives, BSE-SME Exchange platform, S&P BSE GREENEX to promote investments in Green India.

1.2 INDUSTRY PROFILE: COMPANY DESCRIPTION

Sharekhan Limited offers online security broking and portfolio services to institutions and large corporate houses as well as individual investors. Sharekhan Limited was formerly known as SSKI Investor Services Private Limited. The company is based in Mumbai, India.

INDIAN STOCK MARKET OVERVIEW

The Bombay Stock Exchange (BSE) and National Stock Exchange (NSE) are the two primary exchanges in India. In addition there are 22 region Stock exchanges. However the BSE and NSE have established themselves as the two leading exchange and account for about 90% of the equity volume trade in India.

The Securities and Exchange Board of India (SEBI) is the authorized body, which regulates the operations of stock exchanges. The primary index of BSE is SENSEX comprising 30 stocks and for the NSE is NIFTY which comprising 50 stocks.

The BSE Sensex is the older and more widely followed index. Both these are calculated on the basis of market capitalization and contain the heavily traded share from key sectors. The market is closed on Saturdays and Sundays. Both the exchange has Switched over from the open outcry trading system to a fully automated computerized mode of trading known as BOLT (BSE Online Trading) and NEAT (National Exchange Automated Trading) system.

IT facilitates more efficient processing, automatic order machine, faster execution of trader and transparency.

TYPES OF INVESTMENT

Investing is the act of committing money to an endeavor with the expectation of obtaining an additional income. Simply, it means putting the money to work for you and maximizing the earning potential. The more time you give your investments, the more you are able to accelerate the income potential of the original investment.

An index is a basket of identified stocks, and its value is computed by taking the weighted average of the prices of the constituent stocks of the index. A market index for example consists of a group of top stocks traded in the market and its value changes as the prices of its constituent stocks change. In India, Nifty Index is the most popular stock index and it is based on the top 50 stocks traded in the market.

The S&P CNX Nifty, also called the Nifty 50 or simply the Nifty, is a stock market index and one of several leading indices for large companies which are listed on National Stock Exchange of India. Index based derivatives and index funds. Nifty is owned and managed by India Index Services and Products Ltd. (IISL), which is a joint venture between NSE and CRISIL (Credit Rating and Information Services of India Ltd). (IISL) is India's first specialized company focused upon the index as a core product. IISL has marketing and licensing agreement with Standard & Poor's for co-branding equity indices. 'CNX' in its name stands for 'CRISIL NSE Index'. The S&P CNX Nifty currently consists of 50 major Indian companies.

AN OVERVIEW OF THE BSE SENSEX

Established in 1875, BSE Ltd. (Bombay Stock Exchange Ltd.) Asia is first Stock Exchange and one of India's leading exchange groups. Over the past 137 years, BSE has facilitated the growth of the Indian corporate sector by providing it an efficient capital-raising platform. Popularly known as BSE, the bourse was established as The Native Share & Stock Brokers' Association in 1875. BSE is a corporatized and demutualised entity, with a broad shareholder-base which includes two leading global exchanges, Deutsche Bourse and Singapore Exchange as strategic partners. BSE provides an efficient and transparent market for trading in equity, debt instruments, derivatives, mutual funds. It also has a platform for trading in equities of small-and medium enterprises (SME).

More than 5000 companies are listed on BSE making it world's No. 1 exchange in terms of listed members. The companies listed on BSE Ltd command a total market capitalization of USD 1.32 Trillion as of January 2013. It is also one of the world's leading exchanges (3rd largest in December 2012) for Index options trading.

BSE systems and processes are designed to safeguard market integrity, drive the growth of the Indian capital market and stimulate innovation and competition across all market segments. BSE is the first exchange in India and second in the world to obtain an ISO

Bonds: They are called fixed-income securities and refer to any securities that are founded on debt. When you purchase a bond, you are lending out your money to a company or government. In return, they agree to give you interest on your money and eventually pay you back the amount you lent out. Bonds are relatively safety but the rate of return is lower.

Stocks: When you purchase stocks or equities you become a part owner of the business. This entitles you to vote at the shareholders' meeting and allows you to receive any profits that the company allocates to its owners. Stocks are volatile and they fluctuate in value on a daily basis. When you buy a stock, you aren't guaranteed anything. But compared to bonds, stocks provide relatively high potential returns.

Mutual Funds: A mutual fund is a collection of stocks and bonds. When you buy a mutual fund, you are pooling your money with a number of other investors which enables you to pay a professional manager to select specific securities for you. The major advantage of a mutual fund is that you can invest your money without the time or the experience that are often needed to choose a sound investment.

Futures: A futures contract is just what it's called a contract. It is not equity in a stock or commodity. It is a contract to make or take delivery of a product in the future, at a price set in the present. In formalized trading of futures contracts on exchanges, agreements specify price, quantity and the month of delivery. Futures can be used either to hedge or to speculate on the price movement of the underlying asset (Futures).

Options: It is a financial derivative that represents a contract sold by one party (option writer) to another party option holder. The contract offers the buyer the right, but not the obligation, to buy (call) or sell (put) a security or other financial asset at an agreed-upon price during a certain period of time or on a specific date (Option). There are also other alternative investment opportunities such as: Forex, Gold, Real estate etc.

STOCK TRADING

In simple words, stock is a share in the ownership of a company. Holding a company's stock means that you are one of the many owners (shareholders) of a company and you have a claim to everything the company owns. As an owner, you are entitled to your share of the company's earnings as well as any voting rights attached to the stock (Stocks basics: what).

Earlier days a stock was represented by a stock certificate which was a piece of paper that was proof of your ownership. But in today's computer age, your stock is stored electronically by your broker. This is done to make the shares easier to trade. In the past, when a person wanted to sell his shares that person physically took the certificates down to the broker. But now stocks can be purchased with a click of mouse.

Most stocks are traded on exchanges where both buyers and sellers meet and decide on a price. The purpose of a stock exchange is to facilitate the exchange of securities between buyers and sellers, and reducing the risks of investing. Some exchanges are physical locations where transactions are carried out on a trading floor. The other type of exchange is virtual, composed of a network of computers where trades are made electronically.

ONLINE TRADING

Traditionally stock trading was done through stock brokers personally or through telephones. As number of people trading in stock market increased enormously in last few years, some issues like location constrains, busy phone lines, miss communication etc. started growing in stock broker offices. Then Information technology helped stock brokers to solve those problems by Online Stock Trading method (Online stock brokers).

Online stock trading is an internet based stock trading facility where Investor can trade shares through a website without any manual intervention from the broker. It also provides investors with rich, interactive information in real time including market updates, investment research and robust analysis. Advantages and disadvantages of online trading

Still some people like offline stock trading where the customer calls the broker to enquire about the stock prices. Then the broker asks some personal details to verify his identity. After that customer can order the amount and the price at which he wants to buy a particular stock. The broker places the order on behalf of the customer. Similarly, the customer can also sell the shares in offline mode. And the customer can monitor all these transactions by logging into his account. The main advantage in offline trading is time-saving.

BSE Sensex

The BSE Sensex is a value-weighted index composed of 30 companies with the base April 1979 = 100. It has grown by more than four times from January 1990 till date. The set of companies in the index is essentially fixed. These companies account for around one-fifth of the market capitalization of the BSE. We can use information from April 1979 onwards in estimating the long-run rate of return on the BSE Sensex and that comes to 0.52% per week (continuously compounded) with a standard deviation of 3.67%. This translates to 27% per annum, which translates to roughly 18% per annum after compensating for inflation.

WHY BANKING SECTOR

The banking industry in India seems to be unaffected from the global financial crises which started from U.S in the last quarter of 2008. Despite the fallout and nationalization of banks across developed economies, banks in India seems to be on the strong fundamental base and seems to be well insulated from the financial turbulence emerging from the western economies. The Indian banking industry is well placed as compare to their banking industries western counterparts which are depending upon government bailout and stimulus packages.

The strong economic growth in the past, low defaulter ratio, absence of complex financial products, regular intervention by central bank, proactive adjustment of monetary policy and so

called close banking culture has favoured the banking industry in India in recent global financial turmoil.

Although there will no impact on the Indian banking system similar to that in west but the banks in India will adopt for more of defensive approach in credit disbursal in coming period. In order to safe guard their interest; banks will follow stringent norms for credit disbursal. There will be more focus on analyzing borrower financial health rather than capability.

The report "**Indian Banking Sector Forecast to 2012**" contains comprehensive research and rational analysis on various segments, like assets size, income level and number of cardholders, in the Indian banking industry. It also analyzes the current performance and key market trends, and helps clients to understand various products available in the market and their future scope.

The forecast given in this report is not based on a complex economic model but is intended as a rough guide to the direction in which the market is likely to move. The future projection is done on the basis of the current market scenario, past trends, and rules and regulations laid by the regulator and supervisor of the financial system, Reserve Bank of India (RBI).

In India banks have been categorized into 14 banks. They are

- AXIS BANK
- BANK OF INDIA
- BANK OF BARODA
- CANARA BANK
- FEDERAL BANK
- HDFC BANK
- ICICI BANK
- IDBI BANK
- INDUSIND BANK
- KOTAK
- PUNJAB NATIONAL BANK
- SBI
- UNION BANK
- YES BANK

1.3 COMPANY ANALYSIS

According to the individual - Audited financial statement for the Year of 2011, total net operating revenues increased with 0.32%, from INR 478.56 tens of millions to INR 480.07 tens of millions. Operating result decreased from INR 173.4 tens of millions to INR 140.67 tens of millions which means -18.88% changes. The results of the period increased 32.41% reaching INR 247.29 tens of millions at the end of the period against INR 186.76 tens of millions last year. Return on equity (Net income/Total equity) went from 49.58% to 54.30%, the Return On Asset (Net income / Total Asset) went from 22.93% to 25.61% and the Net Profit Margin (Net Income/Net Sales) went from 39.03% to 51.51% when compared to the same period of last year. The Debt to Equity Ratio (Total Liabilities/Equity) was 212.07% compared to 216.17% of last year. Finally, the Current Ratio (Current Assets/Current Liabilities) went from 2.15 to 2.27 when compared to the previous year.

HISTORY OF THE ORGANISATION-SHAREKHAN LTD

Sharekhan is one of the leading share broking and retail brokerage firms in the country. It is the retail broking arm of the Mumbai-based SKI Group (ShripalSevantilalKantilalIshwarlal Pvt. Ltd), which has more than **88 years** of experience in the stock broking business. SSKI is a veteran equities solutions company with **more than 8 decades** of trust and credibility in the Indian stock markets. It helps the customers/people to make informed decisions and simplifies investing in stocks.

Sharekhan brings to you a user- friendly online trading facility, coupled with a wealth of content that will help you stalk the right shares. SSKI named its online division as a Sharekhan and it is into retail broking. The business of the company **overhauled 10 years ago on February 8, 2000**. It acts as a discount brokerage house to a full service investment solution provider. It has specialized research product for the small investors and day traders.

About Sharekhan:

- SSKI named its online division as SHAREKHAN and it is into retail broking.
- The business of the company **overhauled 10 years ago on February 8, 2000**.
- It acts as a discount brokerage house to a full service investment solutions provider.
- It has specialized research product for the small investors and day traders.
- Largest chain of **640 shares shops** in **280 cities** across India.

- The site was also launched on February 8, 2000 and named it as www.sharekhan.com.
- The **Speed Trade account** of Sharekhan is the next generation technology product launched on **April 17, 2002**.
- It offers its customers with the trade execution facilities on the NSE and BSE, for cash as well as derivatives, depository services.
- Ensures convenience in Trading Experience: Sharekhan's trading services are designed to offer an easy, hassle free trading experience, whether trading is done daily or occasionally. Sharekhan providing the customers with a multi-channel access to the stock markets.
- It gives advice based on extensive research to its customers and provides them with relevant and updated information to help him make informed about his investment decisions.

SHAREKHAN'S MISSION & VISION:

Mission

"To educate and empower the retail investor to help him/her take better investment decisions."

Vision:

"To be the best retail broking brand in the Indian equities market."

Growth:

In a short span of **10 years**, the company has scripted a remarkable growth story. Starting from beginnings in **8th February 2000** as an online trading portal, Sharekhan today has a pan-India presence as well as global footprint in UAE and Oman with over **1,529 outlets** serving **9,50,000 customers** across **450 cities**.

Sales turnover & profit of last year:

According to the individual - Audited financial statement for the Year of 2011, total net operating revenues increased with 0.32%, from INR 478.56 tens of millions to INR 480.07 tens of millions. Operating result decreased from INR 173.4 tens of millions to INR 140.67 tens of millions which means -18.88% changes. The results of the period increased 32.41% reaching INR 247.29 tens of millions at the end of the period against INR 186.76 tens of millions last year. Return on equity (Net income/Total equity) went from 49.58% to 54.30%,

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Awards:

- It was awarded “Top Domestic Brokerage House” Four times by EURO and ASIA money
- It was a winner of Best Financial Website
- India’s most preferred brokers within 5 years “Awaaz customers award 2005”
- A wired companies along with Reliance, HIL, Infosys , etc by “Business Today” 2004
- CNBC Award winner ,2004

Products offered:

- Depository Services
- Internet Trading
- Commodity Derivatives
- Mutual Fund Distribution
- IPO services
- Insurance Services

Achievements & milestones:

Future Plan:

- The Coimbatore capital ltd has planned to expand its branches all around Tamilnadu, at present it has 150 branches in and around the Tamilnadu, they are going to come out with 234 branches in Tamilnadu within a couple of years
- They have plan to expand across the Tamilnadu also

BRAND IDENTITY



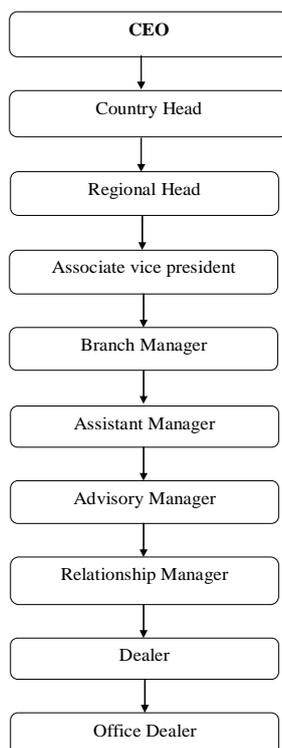
Bombay Stock Exchange has now adopted only its initials as the new name (BSE), positioning itself better position as a national multi-asset financial infrastructure institution. BSE’s strategic shift in approach, attitude and business focus is reflected in its new tag line - Experience the New.

With renewed zeal and focus on new business opportunities, product and service innovation, upgrades in technology, increased investor and member focus, BSE is always pushing the envelope on all fronts. The ambition is to continually improve and adopt new and better ways of conducting our business.

As the first stock exchange in Asia and the pioneer of securities transaction business, BSE prides itself on being at the forefront of bringing innovations to the Indian capital markets while creating diverse investment opportunities for the investor community in India throughout its long history.

BSE continues to undertake several initiatives to build on its strong brand, legacy and market position to create value for its stakeholders and the financial system.

ORGANIZATIONAL STRUCTURE



1.4 OBJECTIVES OF THE STUDY

- Primary objective
- Secondary objective

Primary objective

- To study on the analysis of volatility of securities traded on bse sensx

Secondary objective

- To evaluate the volatility of the stocks in particular index.
- To identify the effect of those events in the whole market.
- To estimate the future price for the script and market.
- To suggest the appropriate alternative for investor.
- To suggest investors to buy, hold and sell stock in the market.

1.5 STATEMENT OF THE PROBLEM:

- Most of the investors are not able to predict the volatility of share price. So they are not able to select the right stock for their investment according to their risk ability

Frequent volatility of share price leads to

1.6 SCOPE OF THE STUDY

- The study will be helpful in knowing that how to analyze the share price behavior before go for an investment.
- To have a better understanding of the stock market trend will facilitate allocation of financial resources to the most profitable investment opportunity.
- The volatility of stock price is due to several economic and non-economic factors. The study is aimed at ascertaining the behavior of selected stock price.

CHAPTER 2: REVIEW OF LITERATURE

1.1 REVIEW OF LITERATURE

According to Philip Kotler perceptions are more important than reality, as it is perceptions that will affect the consumer’s actual behavior. And Perception is defined as the selection, organisation, and interpretation of marketing and environmental stimuli into a coherent picture (Assael, 1998).

In the study conducted by **Nidhi walia and Ravinder kumar (2007)** examined the investor's preference for traditional trading and online trading. The major findings of the study were that Indian investors are more conservative, they do not change easily and Indian traditional traders still choose brokers for trading. But Internet traders are more comfortable with online trading because of its transparency and complete control over the terminal.

Another study by **Sandeep Srivastava, Surendra S Yadav and P K Jain (2008)** on "Derivative Trading in Indian Stock Market Broker's Perception" found that high net worth individuals and proprietary traders contribute to the major proportion of trading volumes in the derivative segment. The survey also revealed investors are using these securities for risk management, profit enhancement, speculation and arbitrage. It also emphasized to popularize option instruments because they may prove to be a useful medium for enhancing retail participation.

Several earlier studies done regarding the characteristics of online traders in USA by Barber and Odean (2002) found that young men are more likely to use the Internet for investing, and that online investors tend to increase turnover and decrease their performance after switching to online trading. Research conducted by Konari Uchida (2006) on the characteristics of Japanese online investors found Japanese online investors prefer higher capital gains, choose low-Volatility stocks less often, use chart data more frequently, and are more likely to choose stocks to buy and sell themselves.

The study conducted by **Yingzi Xu, Robert Goedegebuure and Beatrice van der Heijden (2006)** on "Customer Perception, Customer Satisfaction, and Customer Loyalty within Chinese Securities Business, Towards a Mediation Model for Predicting Customer Behavior" found service quality perceived by customers has a direct, significant effect on customer satisfaction. Also the relationship between perceived service value and customer loyalty is found to be determined by customer satisfaction.

As Fanelli and Erlich say in their study, financial means money and money means an extended Emotional baggage (Erlich and Fanelli 2004: 7). Individual attitude toward money is an extremely emotional one. Unlike consumer goods when taking the decision to purchase a financial product you do not buy one brand but rather rely on the advice of financial intermediaries in the final Decision (Lewis 2008: 105).

Stafford, Lusch and Kabulis suggests that individuals can purchase all types of financial products in a specific time, however products are purchased for longer periods of time in such a way as to satisfy the utility function. They also say that sometimes consumers must not only decide between various alternatives of spending the money, but also if to acquire or to save the

The tools used for this project are

1. Beta
2. Quarterly Moving average

SIMPLE MOVING AVERAGE

The moving average is one of the key trend lines that are plotted on a chart reflecting the closing price over weeks. When the moving average moves above or below the daily chart it may generate a buy or sell signal.

A moving average is an indicate that shows the average value a security's price over a period of time .when calculating a moving average ,a mathematical analysis of the security's average value over a predetermined time period is made .As the security's price changes, its average price moves up or down

Buy signal: when the security's price rises above its moving average

Sell signal: when the security's price rises below its moving average

BETA

The degree to which different portfolios are affected by these systematic risks as compared to the effect on the market as a whole is different and is measured by beta. The beta factor describes the movement in stocks or portfolios returns in relation to that of the market return

The main purpose of using Slope or Beta is to predict the change in the market. Beta is a measure of the market or non-Diversible risk associated with any given security in the market .The Formula for predicting Beta is as follows:

$$\text{Market Value of Beta} = P1-P0 / P0*100$$

Where,

- P1 Today's Close
P0 Previous Close

CHAPTER 3: RESEARCH METHODOLOGY

RESEARCH METHODOLOGY

3.1 TYPE OF RESEARCH

ANALITICAL RESEARCH:

The study uses Analytical Research Design.

3.2 DATA AND SOURCES OF DATA

NATURE OF DATA

The data used in secondary data.

SOURCES OF DATA

Data were collected for a period of Three year 1st Jan 2010 to 31st December 2012. The data are collected from the BSE web.

3.3 TIME PERIOD COVERED

Data were collected for a period of Three year 1st Jan 2010 to 31st December 2012. The daily volatility based on the BSE sensex.

3.4 STATISTICAL TOOLS USED

$$\text{Beta} = \text{Cov}(x, y) / \text{var}(x)$$

Where,

- X Market Value of bse
Y Market Value of the company.

$$\text{Monthly Market value of beta} = P1-P0 / P0*100$$

For calculating the yearly beta Value, Monthly beta was calculated and added to find the yearly market value of Beta.

Where,

- P1 Current month average closing price.
P2 Previous month average closing price.

Where,

- X Market Value of bse
Y Market Value of the company (Monthly average)

3.5 LIMITATIONS OF THE STUDY

- The Study was conducted with the available secondary data available and analysis was made accordingly.
- The study is confined to 3 years only and hence the Changes those have Taken Place Before and after these periods have not been taken into Considerations.
- The study considers only one sectors Name Banking Sector

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CHAPTER 4: ANALYSIS & INTERPRETATION
4.1 DATA ANALYSIS AND INTERPRETATION

BANKING SECTOR:

4.1.1 TABLE SHOWING THE VOLATILITY OF AXIS BANK

YEAR	ALPHA	BETA	STANDARD DEVIATION
2010	-0.17452	0.008007	2.88767
2011	-0.13724	-0.03722	1.024518
2012	-0.18996	-0.03478	0.854525

MOVEMENT OF BETA

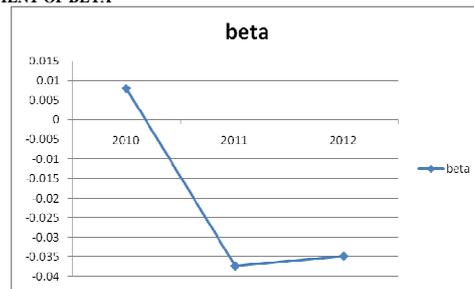


FIGURE 4.1.1

INTERPRETATION

A beta of less than 1 means that the stock is less volatile than the market as whole. While a beta greater than 1 means stock is 0 more volatile than the market as whole. The beta volume can be less than 0, meaning either that their stock is losing money. While the market is gaining (more likely) or that the stock the stock is gaining while the market is losing (less likely).

4.1.2 TABLE SHOWING THREE QUARTER MOVING AVERAGE OF AXIS BANK:

YEAR	QUARTERLY	QUARTERLY AVERAGE (in Rs)	3 QUARTERLY MOVING AVERAGE (in RS)	ACTUAL
2010	1	1106.483		

	2	1246.517	1251.161	1176.5
	3	1400.483	1347.228	1323.5
	4	1394.683	1362.2	1397.583
2011	1	1291.433	1323.55	1343.058
	2	1284.533	1240.278	1287.983
	3	1144.867	1133.572	1214.7
	4	971.3167	1082.967	1058.092
		1132.717	1045.117	1052.017

2012	1			
	2	1031.317	1074.606	1082.017
	3	1059.783	1125.533	1045.55
	4	1285.5	781.761	1172.642

MOVING AVERAGE

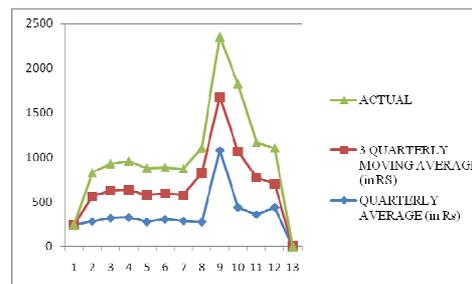


FIGURE 4.1.2

INTERPRETATION

The average Closing Price as on 4th quarter 2012 was 1,285.5 which is greater than the moving average. Moreover the prices Movement during the years were showing an upward trend

Which Indicates that the security's price has been going up. It shows a buying signal for the investors.

4.2.1 TABLE SHOWING THE VOLATILITY OF BANK OF BARODA

YEAR	ALPHA	BETA	STANDARD DEVIATION
2010	-0.13283	-0.06941	0.819432
2011	-0.11038	-0.06168	1.029823
2012	-0.24778	-0.02577	0.86014

MOVEMENT OF BETA

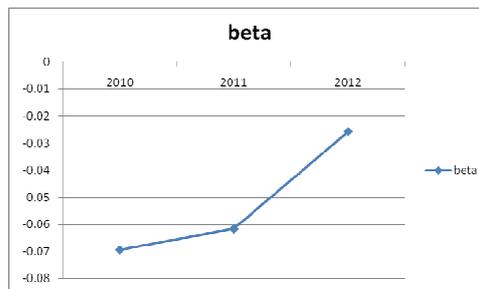


FIGURE 4.2.1

INTERPRETATION

A beta of less than 1 means that the stock is less volatile than the market as whole. While a beta greater than 1 means stock is 0 more volatile than the market as whole. The beta volume can be less than 0, meaning either that their stock is losing money. While the market is gaining (more likely) or that the stock the stock is gaining while the market is losing (less likely).

4.2.2 TABLE SHOWING THREE QUARTER MOVING AVERAGE OF BANK OF BARODA

YEAR	QUARTERLY	QUARTERLY AVERAGE (in Rs)	3 QUARTERLY MOVING AVERAGE (in RS)	ACTUAL
2010	1	785.0333		
	2	695.6167	736.4889	740.325

	3	728.8167	736.0222	712.2167
	4	783.6333	741.1444	756.225
2011	1	710.9833	762.5111	747.3083
	2	792.9167	795.4611	751.95
	3	882.4833	858.8167	837.7
	4	901.05	910.65	891.7667
2012	1	948.4167	886.5722	924.7334
		810.25	819.9889	879.3334

	2			
	3	701.3	703.7444	755.775
	4	599.6833	433.6611	650.4917

MOVING AVERAGE

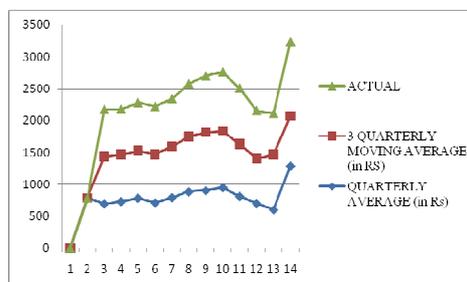


FIGURE 4.2.2

INTERPRETATION

The average Closing Price as on 4th quarter 2012 was 599.68 which is greater than the moving average. Moreover the prices Movement during the years were showing an upward trend Which Indicates that the security's price has been going up. It shows a buying signal for the investors.

4.3.1 TABLE SHOWING THE VOLATILITY OF BANK OF INDIA

YEAR	ALPHA	BETA	STANDARD DEVIATION
2010	-0.21527	0.058557	1.371893
2011	-0.11813	-0.05802	0.831333
2012	-0.20681	-0.15353	0.881284

MOVEMENT OF BETA

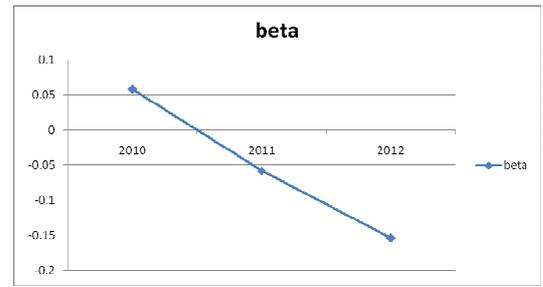


FIGURE 4.3.1

INTERPRETATION

A beta of less than 1 means that the stock is less volatile than the market as whole. While a beta greater than 1 means stock is 0 more volatile than the market as whole. The beta volume can be less than 0, meaning either that their stock is losing money. While the market is gaining (more likely) or that the stock the stock is gaining while the market is losing (less likely).

4.3.2TABLE SHOWING THREE QUARTER MOVING AVERAGE OF BANK OF INDIA

YEAR	QUARTERLY	QUARTERLY AVERAGE (in Rs)	3 QUARTERLY MOVING AVERAGE (in RS)	ACTUAL
2010	1	373.1		
	2	337.3667	350.9889	355.2334

	3	342.5	361.2445	339.9334
	4	403.8667	370.5167	373.1834
2011	1	365.1833	374.4056	384.525
	2	354.1667	381.2389	359.675
	3	424.3667	408.0056	389.2667
	4	445.4833	404.9611	434.925
2012	1	345.0333	394.7666	395.2583
		393.7833	365.4389	369.4083

	2			
	3	357.5	354.2111	375.6417
	4	311.35	222.95	334.425

MOVING AVERAGE

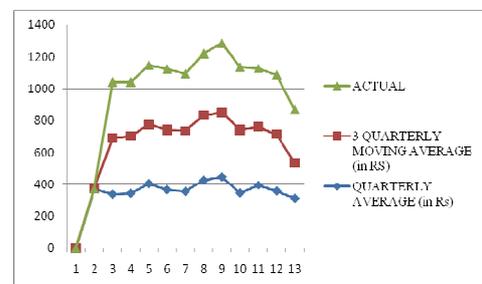


FIGURE 4.3.2

INTERPRETATION

The average Closing Price as on 4th quarter 2012 was 311.35 which is greater than the moving average. Moreover the prices Movement during the years were showing an upward trend Which Indicates that the security's price has been going up. It shows a buying signal for the investors.

4.4.1TABLE SHOWING THE VOLATILITY OF CANARA BANK

YEAR	ALPHA	BETA	STANDARD DEVIATION
2010	-0.03827	0.044132	2.203397
2011	-0.06721	-0.14407	0.829329
2012	0.006478	0.02514	2.362266

MOVEMENT OF BETA



FIGURE4.4.1

INTERPRETATION

A beta of less than 1 means that the stock is less volatile than the market as whole. While a beta greater than 1 means stock is 0 more volatile than the market as whole. The beta volume can be less than 0, meaning either that their stock is losing money. While the market is gaining (more likely) or that the stock the stock is gaining while the market is losing (less likely).

4.4.2TABLE SHOWING THREE QUARTER MOVING AVERAGE OF CANARA BANK

YEAR	QUARTERLY	QUARTERLY AVERAGE (in Rs)	3 QUARTERLY MOVING AVERAGE (in RS)	ACTUAL
2010	1	397.5833		
	2	428.8667	450.4944	413.225

	3	525.0333	553.3778	476.95
	4	706.2333	614.6722	615.6333
2011	1	612.75	628.55	659.4917
	2	566.6667	541.0222	589.7084
	3	443.65	477.1	505.1584
	4	420.9833	449.8389	432.3167
2012	1	484.8833	441.1389	452.9333
		417.55	424.5778	451.2167

	2			
	3	371.3	414.2889	394.425
	4	454.0167	275.1056	412.6584

MOVING AVERAGE

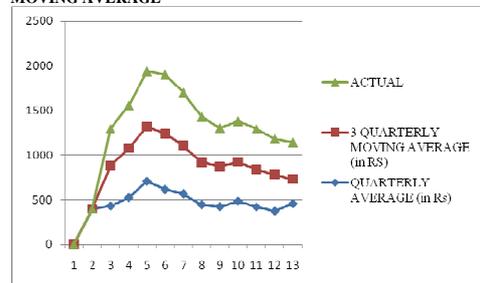


FIGURE4.4.2

INTERPRETATION

The average Closing Price as on 4th quarter 2012 was 454.02 which is greater than the moving average. Moreover the prices Movement during the years were showing an upward trend Which Indicates that the security's price has been going up. It shows a buying signal for the investors.

4.5.1TABLE SHOWING THE VOLATILITY OF FEDERAL BANK

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YEAR	ALPHA	BETA	STANDARD DEVIATION
2010	-0.24505	-0.13923	0.953804
2011	-0.11565	-0.11026	1.198269
2012	-0.1914	-0.12561	0.765806

MOVEMENT OF BETA

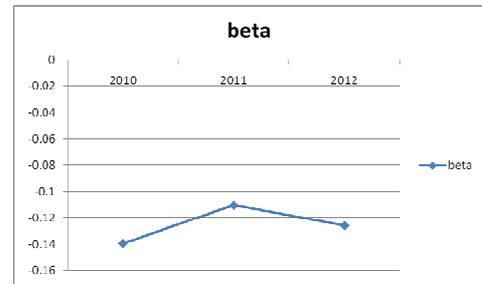


FIGURE 4.5.1

INTERPRETATION

A beta of less than 1 means that the stock is less volatile than the market as whole. While a beta greater than 1 means stock is 0 more volatile than the market as whole. The beta volume can be less than 0, meaning either that their stock is losing money. While the market is gaining (more likely) or that the stock the stock is gaining while the market is losing (less likely).

4.5.2TABLE SHOWING THREE QUARTER MOVING AVERAGE OF FEDERAL BANK

YEAR	QUARTERLY	QUARTERLY AVERAGE (in Rs)	3 QUARTERLY MOVING AVERAGE (in Rs)	ACTUAL
2010	1	259.85		
	2	318.8	312.65	289.325

	3	359.3	371.8389	339.05
2011	4	437.4167	391.3445	398.3584
	1	377.3167	417.8834	407.3667
	2	438.9167	401.2778	408.1167
	3	387.6	398.7833	413.2584
2012	4	369.8333	389.3389	378.7167
	1	410.5833	403.1222	390.2083
		428.95	420.5611	419.7667

	2			
	3	422.15	450.7278	425.55
	4	501.0833	307.7444	461.6167

MOVING AVERAGE

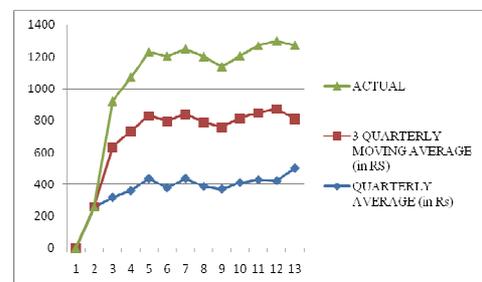


FIGURE 4.5.2

INTERPRETATION

The average Closing Price as on 4th quarter 2012 was 501.08 which is greater than the moving average. Moreover the prices Movement during the years were showing an upward trend Which Indicates that the security's price has been going up. It shows a buying signal for the investors.

4.6.1 TABLE SHOWING THE VOLATILITY OF HDFC BANK

YEAR	ALPHA	BETA	STANDARD DEVIATION
2010	-0.05058	-0.08556	0.590164
2011	1.410773	0.051218	25.35396
2012	-0.14379	-0.11958	0.506092

MOVEMENT OF BETA

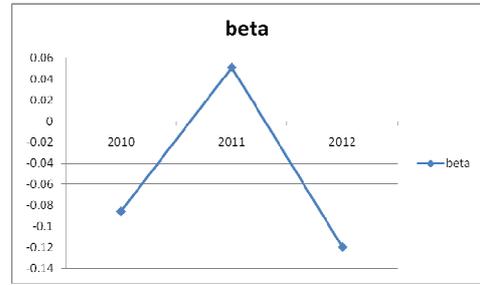


FIGURE 4.6.1

INTERPRETATION

A beta of less than 1 means that the stock is less volatile than the market as whole. While a beta greater than 1 means stock is 0 more volatile than the market as whole. The beta volume can be less than 0, meaning either that their stock is losing money. While the market is gaining (more likely) or that the stock the stock is gaining while the market is losing (less likely).

4.6.2 TABLE SHOWING THREE QUARTER MOVING AVERAGE OF HDFC BANK

YEAR	QUARTERLY	QUARTERLY AVERAGE (in Rs)	3 QUARTERLY MOVING AVERAGE (in Rs)	ACTUAL AVERAGE
2010	1	351.2		
	2	386.11	395.5633	368.655
2011	3	449.38	432.1367	417.745
	4	460.92	446.4444	455.15
2011	1	429.0333	456.2822	444.9767
	2	478.8933	461.1811	453.9633
2011	3	475.6167	469.0089	477.255
	4	452.5167	479.2389	464.0667
2012	1	509.5833	499.7722	481.05
		537.2167	550.2222	523.4

	3	449.38	432.1367	417.745
	4	460.92	446.4444	455.15
2011	1	429.0333	456.2822	444.9767
	2	478.8933	461.1811	453.9633
	3	475.6167	469.0089	477.255
	4	452.5167	479.2389	464.0667
2012	1	509.5833	499.7722	481.05
		537.2167	550.2222	523.4

	2			
	3	603.8667	604.4722	570.5417
	4	672.3333	425.4	638.1

MOVING AVERAGE

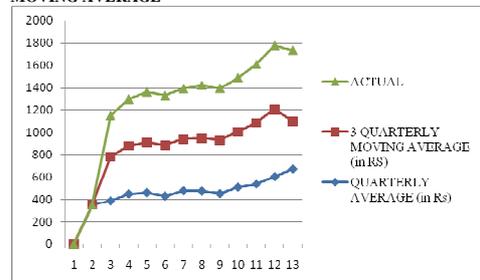


FIGURE 4.6.2

INTERPRETATION

The average Closing Price as on 4th quarter 2012 was 672.33 which is greater than the moving average. Moreover the prices Movement during the years were showing an upward trend Which Indicates that the security's price has been going up. It shows a buying signal for the investors.

4.7.1 TABLE SHOWING THE VOLATILITY OF ICICI BANK

YEAR	ALPHA	BETA	STANDARD DEVIATION
2010	-0.00865	-0.0858	0.885641
2011	-0.09225	-0.03483	1.079477
2012	-0.18572	-0.13198	0.786259

MOVEMENT OF BETA

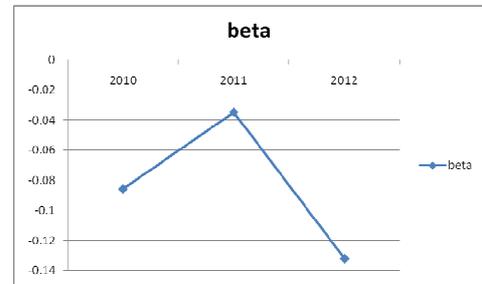


FIGURE 4.7.1

INTERPRETATION

A beta of less than 1 means that the stock is less volatile than the market as whole. While a beta greater than 1 means stock is 0 more volatile than the market as whole. The beta volume can be less than 0, meaning either that their stock is losing money. While the market is gaining (more likely) or that the stock the stock is gaining while the market is losing (less likely).

4.7.2 TABLE SHOWING THREE QUARTER MOVING AVERAGE OF ICICI BANK

YEAR	QUARTERLY	QUARTERLY AVERAGE (in Rs)	3 QUARTERLY MOVING AVERAGE (in Rs)	ACTUAL
2010	1	884.9833		
	2	893.1833	925.1778	889.0833

	3	997.3667	1013.511	945.275
	4	1149.983	1060.644	1073.675
2011	1	1034.583	1094.116	1092.283
	2	1097.783	1020.383	1066.183
	3	928.7833	934.3277	1013.283
	4	776.4167	867.9278	852.6
2012	1	898.5833	843.3722	837.5
		855.1167	909.8222	876.85

	2			
	3	975.7667	975.4001	915.4417
	4	1095.317	690.3612	1035.542

MOVING AVERAGE

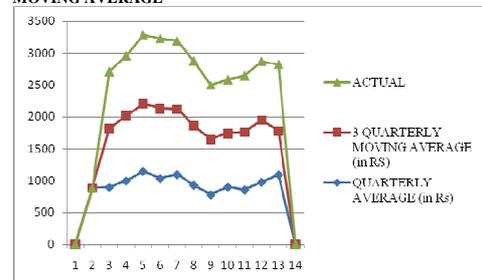


FIGURE 4.7.2

INTERPRETATION

The average Closing Price as on 4th quarter 2012 was 1,095.32 which is greater than the moving average. Moreover the prices Movement during the years were showing an upward trend Which Indicates that the security's price has been going up. It shows a buying signal for the investors.

4.8.1 TABLE SHOWING THE VOLATILITY OF IDBI BANK

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YEAR	ALPHA	BETA	STANDARD DEVIATION
2010	-0.35373	-0.09339	0.803789
2011	-0.21553	-0.09217	0.787502
2012	-0.29018	-0.03452	0.762973

MOVEMENT OF BETA

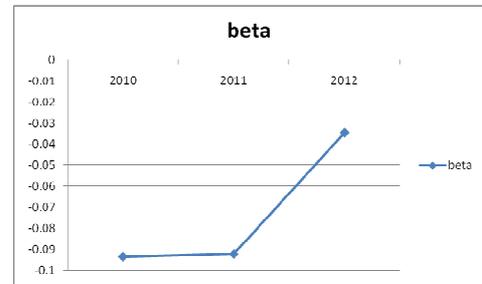


FIGURE 4.8.1

INTERPRETATION

A beta of less than 1 means that the stock is less volatile than the market as whole. While a beta greater than 1 means stock is 0 more volatile than the market as whole. The beta volume can be less than 0, meaning either that their stock is losing money. While the market is gaining (more likely) or that the stock the stock is gaining while the market is losing (less likely).

4.8.2TABLE SHOWING THREE QUARTER MOVING AVERAGE OF IDBI BANK

YEAR	QUARTERLY	QUARTERLY AVERAGE (in Rs)	3 QUARTERLY MOVING AVERAGE (in Rs)	ACTUAL
2010	1	118.35		
	2			
	3			
	4		119.6	122.9722

	2			
	3	130.9667	140.05	125.2834
	4	169.5833	146.3167	150.275
2011	1	138.4	148.6444	153.9917
	2	137.95	130.0833	138.175
	3	113.9	115.8722	125.925
	4	95.76667	104.7889	104.8333
2012	1	104.7	98.01667	100.2333

	2	93.58333	96.34444	99.14167
	3	90.75	96.15001	92.16667
	4	104.1167	64.95557	97.43335

MOVING AVERAGE

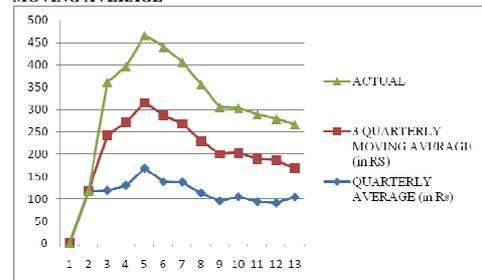


FIGURE 4.8.2

INTERPRETATION

The average Closing Price as on 4th quarter 2012 was 104.11 which is greater than the moving average. Moreover the prices Movement during the years were showing an upward trend Which Indicates that the security's price has been going up. It shows a buying signal for the investors.

4.9.1 TABLE SHOWING THE VOLATILITY OF INDUSIND BANK

YEAR	ALPHA	BETA	STANDARD DEVIATION
2010	-0.33436	-0.03396	1.117084
2011	-0.02416	-0.16509	1.58576
2012	-0.22419	-0.04227	0.72377

MOVEMENT OF BETA

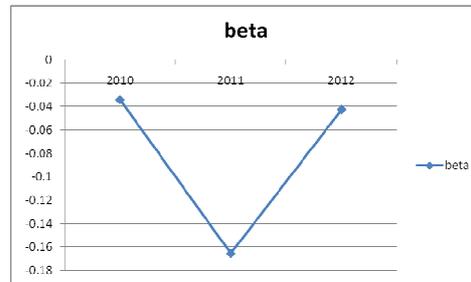


FIGURE 4.9.1

INTERPRETATION

A beta of less than 1 means that the stock is less volatile than the market as whole. While a beta greater than 1 means stock is 0 more volatile than the market as whole. The beta volume can be less than 0, meaning either that their stock is losing money. While the market is gaining (more likely) or that the stock the stock is gaining while the market is losing (less likely).

4.9.2 TABLE SHOWING THREE QUARTER MOVING AVERAGE OF INDUSIND BANK

YEAR	QUARTERLY	QUARTERLY AVERAGE (in Rs)	3 QUARTERLY MOVING AVERAGE (in Rs)	ACTUAL
2010	1	155.95		
	2	198.4167	194.8	177.1834

	3	230.0333	234.0278	214.225
	4	273.6333	246.4278	251.8333
2011	1	235.6167	258.2167	254.625
	2	265.4	253.6222	250.5084
	3	259.85	259.8889	262.625
	4	254.4167	274.2389	257.1334
2012	1	308.45	295.6056	281.4334
		323.95	322.1722	316.2

	2			
	3	334.1167	352.5	329.0334
	4	399.4333	244.5167	366.775

MOVING AVERAGE

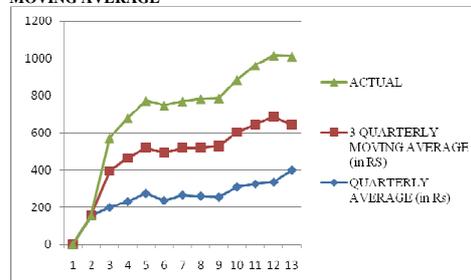


FIGURE 4.9.2

INTERPRETATION

The average Closing Price as on 4th quarter 2012 was 399.43 which is greater than the moving average. Moreover the prices Movement during the years were showing an upward trend Which Indicates that the security's price has been going up. It shows a buying signal for the investors.

4.10.1 TABLE SHOWING THE VOLATILITY OF KOTAK MAHINDRA BANK

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YEAR	ALPHA	BETA	STANDARD DEVIATION
2010	0.111062	0.033275	6.207741
2011	-0.12012	-0.04661	0.825157
2012	-0.0765	-0.0759	0.620283

MOVEMENT OF BETA

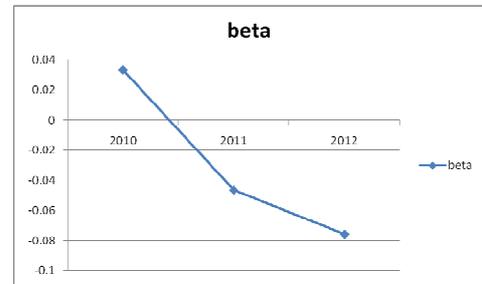


FIGURE 4.10.1

INTERPRETATION

A beta of less than 1 means that the stock is less volatile than the market as whole. While a beta greater than 1 means stock is 0 more volatile than the market as whole. The beta volume can be less than 0, meaning either that their stock is losing money. While the market is gaining (more likely) or that the stock the stock is gaining while the market is losing (less likely).

4.10.2TABLE SHOWING THREE QUARTER MOVING AVERAGE OF KOTAK MAHINDRA

YEAR	QUARTERLY	QUARTERLY AVERAGE (in Rs)	3 QUARTERLY MOVING AVERAGE (in Rs)	ACTUAL
2010	1	378.51		
	2	377.55	393.6656	378.03
2011	3	424.9367	1262.646	401.2434
	4	2985.45	1275.318	1705.193
2012	1	415.5667	1283.778	1700.508
	2	450.3167	438.4334	432.9417
	3	449.4167	456.3056	449.8667
	4	469.1833	482.65	459.3
2012	1	529.35	525.8944	499.2667
		579.15	565.4222	554.25

	3	424.9367	1262.646	401.2434
	4	2985.45	1275.318	1705.193
2011	1	415.5667	1283.778	1700.508
	2	450.3167	438.4334	432.9417
	3	449.4167	456.3056	449.8667
	4	469.1833	482.65	459.3
2012	1	529.35	525.8944	499.2667
		579.15	565.4222	554.25

	2			
	3	587.7667	602.5722	583.4584
	4	640.8	409.5222	614.2834

MOVING AVERAGE

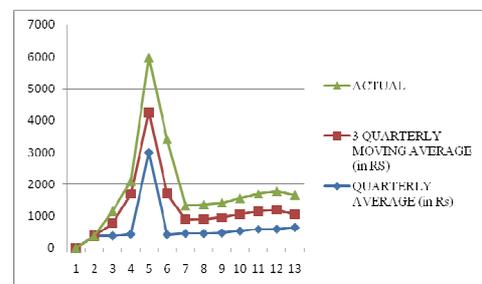


Figure 4.10.2

INTERPRETATION

The average Closing Price as on 4th quarter 2012 was 640.8 which is greater than the moving average. Moreover the prices Movement during the years were showing an upward trend Which Indicates that the security's price has been going up. It shows a buying signal for the investors.

4.11.ITABLE SHOWING THE VOLATILITY OF PUNJOB NATIONAL BANK

YEAR	ALPHA	BETA	STANDARD DEVIATION
2010	-0.07418	-0.10065	0.852873
2011	-0.09016	-0.16704	0.812157
2012	-0.25027	-0.10099	0.75685

MOVEMENT OF BETA

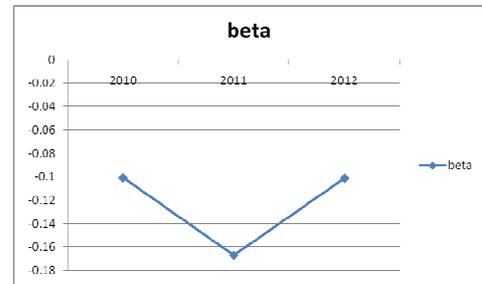


FIGURE 4.11.1

INTERPRETATION

A beta of less than 1 means that the stock is less volatile than the market as whole. While a beta greater than 1 means stock is 0 more volatile than the market as whole. The beta volume can be less than 0, meaning either that their stock is losing money. While the market is gaining (more likely) or that the stock the stock is gaining while the market is losing (less likely).

4.11.2TABLE SHOWING THREE QUARTER MOVING AVERAGE OF PNB

YEAR	QUARTERLY	QUARTERLY AVERAGE (in Rs)	3 QUARTERLY MOVING AVERAGE (in Rs)	ACTUAL
2010	1	938.1333		
	2	1028.117	1049.083	983.1252

	3	1181	1150.711	1104.559
	4	1243.017	1183.261	1212.009
2011	1	1125.767	1164.611	1184.392
	2	1125.05	1084.328	1125.409
	3	1002.167	1002.783	1063.609
	4	881.1333	941.4001	941.6502
2012	1	940.9	875.9389	911.0167
		805.7833	831.7055	873.3417

	2			
	3	748.4333	784.3055	777.1083
	4	798.7	515.7111	773.5667

MOVING AVERAGE

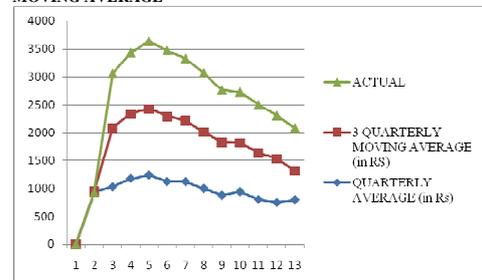


FIGURE 4.11.2

INTERPRETATION

The average Closing Price as on 4th quarter 2012 was 798.7 which is greater than the moving average. Moreover the prices Movement during the years were showing an upward trend Which Indicates that the security's price has been going up. It shows a buying signal for the investors.

4.12.1TABLE SHOWING THE VOLATILITY OF SBI

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YEAR	ALPHA	BETA	STANDARD DEVIATION
2010	-0.04982	-0.11832	0.571467
2011	-0.10172	-0.13271	0.784935
2012	-0.17185	-0.15569	0.796565

MOVEMENT OF BETA

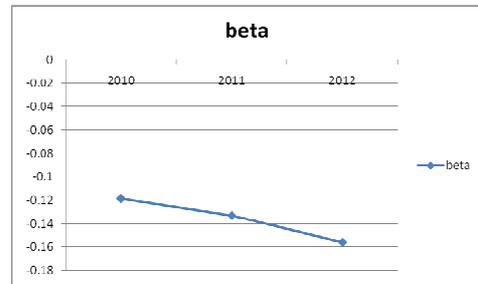


FIGURE 4.12.1

INTERPRETATION

A beta of less than 1 means that the stock is less volatile than the market as whole. While a beta greater than 1 means stock is 0 more volatile than the market as whole. The beta volume can be less than 0, meaning either that their stock is losing money. While the market is gaining (more likely) or that the stock the stock is gaining while the market is losing (less likely).

4.12.2 TABLE SHOWING THREE QUARTER MOVING AVERAGE OF SBI

YEAR	QUARTERLY	QUARTERLY AVERAGE (in Rs)	3 QUARTERLY MOVING AVERAGE (in Rs)	ACTUAL
2010	1	2037.617		
	2	2289.467	2387.011	2163.542
	3	2029.367	2157.211	2125.25
	4	2221.133	1416.833	2125.25

	2			
	3	2833.95	2702.956	2561.709
	4	2985.45	2833.239	2909.7
2011	1	2680.317	2722.961	2832.884
	2	2503.117	2419.767	2591.717
	3	2075.867	2114	2289.492
	4	1763.017	3308.995	1919.442
2012	1	6088.1	3357.417	3925.559

	2	2221.133	3446.2	4154.617
	3	2029.367	2157.211	2125.25
	4	2221.133	1416.833	2125.25

MOVING AVERAGE

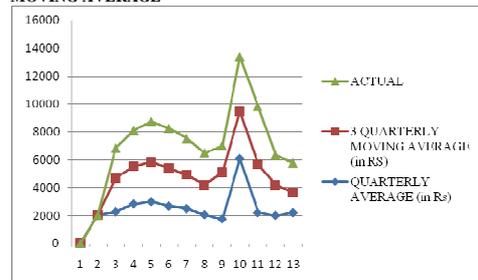


FIGURE 4.12.2

INTERPRETATION

The average Closing Price as on 4th quarter 2012 was 2,221.13 which is greater than the moving average. Moreover the prices Movement during the years were showing an upward trend Which Indicates that the security's price has been going up. It shows a buying signal for the investors.

4.13.1 TABLE SHOWING THE VOLATILITY OF UNION BANK

YEAR	ALPHA	BETA	STANDARD DEVIATION
2010	-0.16175	-0.04711	1.044894
2011	-0.11762	-0.08524	1.167834
2012	-0.29722	-0.09706	0.987641

MOVEMENT OF BETA

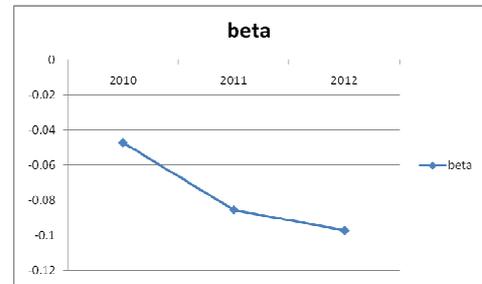


FIGURE 4.13.1

INTERPRETATION

A beta of less than 1 means that the stock is less volatile than the market as whole. While a beta greater than 1 means stock is 0 more volatile than the market as whole. The beta volume can be less than 0, meaning either that their stock is losing money. While the market is gaining (more likely) or that the stock the stock is gaining while the market is losing (less likely).

4.13.2 TABLE SHOWING THREE QUARTER MOVING AVERAGE OF UNION BANK

YEAR	QUARTERLY	QUARTERLY AVERAGE (in Rs)	3 QUARTERLY MOVING AVERAGE (in Rs)	ACTUAL
2010	1	267.9167		
	2	305.2167	305.8945	286.5667
2011	3	344.55	336.35	324.8834
	4	359.2833	344.7111	351.9167
2012	1	330.3	333.2278	344.7917
	2	310.1	299.8	320.2
2012	3	259	257.2	284.55
	4	202.5	330.9667	230.75
2012	1	531.4	323.75	366.95
		237.35	315.2944	384.375

	3	344.55	336.35	324.8834
	4	359.2833	344.7111	351.9167
2011	1	330.3	333.2278	344.7917
	2	310.1	299.8	320.2
	3	259	257.2	284.55
	4	202.5	330.9667	230.75
2012	1	531.4	323.75	366.95
		237.35	315.2944	384.375

	2			
	3	177.1333	217.2778	207.2417
	4	237.35	138.1611	207.2417

MOVING AVERAGE

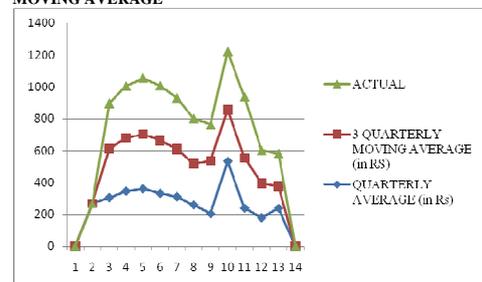


FIGURE 4.13.2

INTERPRETATION

The average Closing Price as on 4th quarter 2012 was 237.35 which is greater than the moving average. Moreover the prices Movement during the years were showing an upward trend Which Indicates that the security's price has been going up. It shows a buying signal for the investors.

4.14.1 TABLE SHOWING THE VOLATILITY OF YES BANK

YEAR	ALPHA	BETA	STANDARD DEVIATION
2010	-0.17433	-0.07065	0.870929
2011	-0.16426	-0.09465	0.874261
2012	-0.16326	0	0.886498

MOVEMENT OF BETA

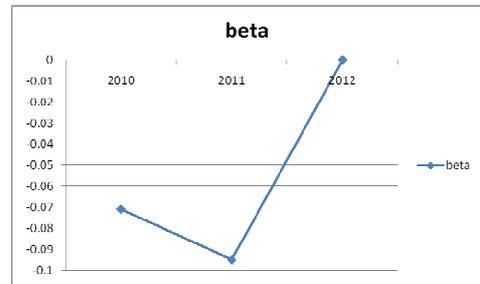


FIGURE 4.14.1

INTERPRETATION

A beta of less than 1 means that the stock is less volatile than the market as whole. While a beta greater than 1 means stock is 0 more volatile than the market as whole. The beta volume can be less than 0, meaning either that their stock is losing money. While the market is gaining (more likely) or that the stock the stock is gaining while the market is losing (less likely).

4.14.2TABLE SHOWING THREE QUARTER MOVING AVERAGE OF YES BANK

YEAR	QUARTERLY	QUARTERLY AVERAGE (in Rs)	3 QUARTERLY MOVING AVERAGE (in Rs)	ACTUAL
2010	1	246.8833		
	2	280.8333	282.3	263.8583

	3	319.1833	308.6778	300.0083
2011	4	326.0167	307.2111	322.6
	1	276.4333	302.7444	301.225
	2	305.7833	289.7611	291.1083
	3	287.0667	289.3444	296.425
	4	275.1833	546.1833	281.125
2012	1	1076.3	596.9444	675.7417
		439.35	624.8056	757.825

	2			
	3	358.7667	412.4889	399.0584
	4	439.35	266.0389	399.0584

MOVING AVERAGE

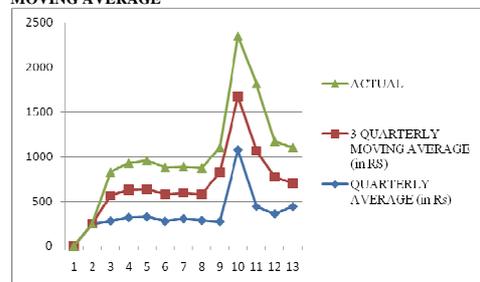


FIGURE 4.14.2

INTERPRETATION

The average Closing Price as on 4th quarter 2012 was 439.35 which is greater than the moving average. Moreover the prices Movement during the years were showing an upward trend Which Indicates that the security's price has been going up. It shows a buying signal for the investors.

1. The beta calculation can be further extended for all industries like IT, FMCG; Power sectors, Consumer Durables etc and can be compared with the benchmark index.
2. Comparison with NSE NIFY can provide more insights.

CONCLUSION

The Beta value for PNB is higher therefore it shows that the volatility is high and low for Yes Bank for 2010. In 2011 the volatility is high for federal bank and low for yes bank. In 2012, volatility is high for Indusind Bank and Low for Punjab National Bank. Therefore when volatility is high, returns are more as risk is high.

CHAPTER 5

FINDINGS SUGGESTIONS & CONCLUSION

FINDINGS

1. The beta is found to be negative for all fourteen companies in all three years.
2. The quarterly average values for all three years were high for Axis Bank, Canara Bank, HDFC Bank, ICICI Bank, Indusind, Kotak Mahindra, SBI and Yes Bank
3. The quarterly average values for all three years were low for bank of India, bank of Baroda, IDBI bank, PNB and Union Bank.
4. The quarterly moving average values for all three years were high for Axis Bank, Canara Bank, HDFC Bank, ICICI Bank, Indusind, Kotak Mahindra, SBI and Yes Bank
5. The quarterly moving average values for all three years were low for bank of India, bank of Baroda, IDBI bank, PNB and Union Bank.
6. The actual day to day activities were fluctuating for the entire period of the study.
7. The standard deviations are positive for the entire period of study.
8. Alpha and beta were found to be negative for all three years.

SUGGESTIONS

5.4 SCOPE FOR FURTHER STUDY

1. The beta calculation and quarterly moving average can be further extended for all industries like IT, FMCG; Power sectors, Consumer Durables etc and can be compared with the benchmark index.
2. Comparison with NSE NIFY can provide more insights.

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