



"A STUDY ON MAJOR FACTOR AFFECTING INDIAN STOCK MARKET AND RISK & RETURN OF DIFFERENT CAPITALISATION STOCKS IN DIFFERENT PHASES OF INDIAN STOCK MARKET"

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Abstract

Stock Market is ever green field for Investment and good choice of investment provides very lucrative scope. But it is very difficult to select companies for investment as there are number of companies listed in different stock exchanges. In this paper I have tried to categories different stock on the basis of market capitalization and study them on the basis of performance of different indices of Bombay stock exchange related to different capitalization stocks i.e., Sensex for Large Cap Stocks, Mid Cap Stoks and Small Cap Index for Small Cap Stocks. For my study I have used daily value of selected indices from January 2007 to December 2009. In this study I have found that there is no major difference in the risk and return of different capitalization stocks, but there is significant difference in risk and return of same stocks in different phase of stock market i.e. Bearish Trend, Consolidation Period and Bullish Trend

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46354

Introduction

Management is an art to achieve its objectives with can earn maximum out of it. But there is the use of optimum utilization of available phenomenon – "high risk high return". Hence resources. Means are always limited and wants are investment decision becomes important to unlimited. With limited means we are required to minimize risk and maximize return. To minimize the satisfy maximum need and wants. This is possible risk, investor can keep his money in saving bank only when we manage our resources in optimum account or he can invest in government securities, manner. One of the important resources for all but that will not give good returns to him. individuals, organizations and countries is finance. Especially, when inflation determines real return As other resources money is also scare for all and affects it in a negative manner. concern parties. Everyone would like to invest this



Investor should earn at least a return which will minimize the effect of inflation. Hence due to the time value of money investor is required to earn well on his investment at least to maintain value of his amount of investment.

When investors want to optimize return, they are required to balance risk and return related to available alternatives for it. Return can be considered as profit earned on investment or total return i.e. capital-gain plus regular income, while risk is of different types. But here risk is considered as variability in return due to any reason.

For that it is important to consider different investment avenues, which have enough scope to consider good range of risk and return. Stock market provides these kinds of avenues where investor has scope to determine his expected level of return and his readiness to take different level of risk. There are different kinds of the stocks which may provide different combinations of risk-return relationship and number of factors which may affect these stocks prices due to which return may vary. So it is important for investors to know about return of different stock and risk related to them before investing their money. Investor can understand risk related to different stocks well, when he has some idea about major factors which may influence prices of stock. In my study I have tried to incorporate these aspects of investment decision.

Problem Identification

From above discussion we can conclude that investment decision is very crucial for each and every investor. Investment decision is important not only due to increase in value of investors' wealth, but sometimes also to at least maintain the value of his wealth. Stock market provides better opportunities to do that as there is wider scope in comparison with debt instrument or government securities. Hence in my work I have tried to study mainly two problems of investor in his decision making in stock market: Firstly, to know risk and return of different capitalization stocks i.e. large-cap, mid-cap and small-cap; during different phases of stock market i.e. bullish, consolidation and bearish phase. Secondly, to know major factors responsible for variability in return in stock market.

Statement of the problem undertaken:

1. To understand risk and return of different capitalization stocks (large-cap, mid-cap and small-cap) during different phases (bullish, consolidation and bearish) of stock market in India; and
2. To understand major factors affecting Indian Stock markets.

Importance and justification of the stated problem

1. Knowledge of risk and return guides investors to take investment decision. In stock market there are different kinds of stocks and their performance may not remain the same during different phases of stock market (bullish, consolidation and bearish). Investment decision is a continuous process and cannot be restricted to certain time period. This study will be helpful in determining selection of different types of stock during different phases, with the consideration of different attitudes of different investors expected risk and return. Hence it is important to know risk and return of different type of stocks during different phases of stock market.
2. Stock market is always one of the important sources of investment to earn good returns, which could be more than the real rate of return. (Real rate of return is = actual rate of return – inflation rate). To earn in stock market, knowledge related to it is very important. Performance of stock market reflects number of factors related to country's economy, industrial positions, companies' performance and factors related to globe. If investor wants smart movement in stock market, he is required to understand effect of major factors in stock market. Before understanding effect of major factors, it is important to aware about these major factors.

Literature Review

The literature review is divided into two parts. Firstly, related to different types of stocks and secondly, related to factors affecting stock market.



Literature related to different types of stocks and their movement in stock market

Galbraith (1954) has found that the Great Crash of 1929 was followed by boom. Due to rapid economic growth of the 1920s created euphoria in book value to market value are leading explanatory variables for the cross section of average return. *Fama and French (1992)* have found that size and growth of the 1920s created euphoria in book value to market value are leading explanatory variables for the cross section of average return. The Element of loan from brokers added fuel in it i.e. dangerous leverage. All these variables for the cross section of average return. *W. Scott Buman, C. Mitchell Conover and Robert E. DeLong and Miller (1998)*, are due to irrational investors. *DeLong and Miller (1998)*, have studied that the value stocks outperform growth stocks in all firm capitalization-was not much higher during the financial panics size categories except the smallest. The value stocks from 1890-1913 than during non-panic periods. offer investors relatively more factorable return *Hamilton's (1989)*, evidence that recessions than growth stocks in the developed non-US typically have shorter duration than markets. The difference in performance between expansions predicts that cash flow persistence large value stocks and large growth stocks were should decrease during recessions. *Schwert (1988)*, shows that the standard deviation greater than between small value stocks and small growth stocks. Value stock may out-perform of both stock returns and industrial production internationally because investors and research growth are higher during recessions than during analysts overreact to past corporate earnings trends expansions. According to *G. William Schwert (1989)*, of growth stocks and value stocks. stock volatility was noticeably higher during According to *Louis K.C.Chan, Jason Karceski and Josef Lakonishok (2000)*, Operating performance of war I recession, during the 1929-1934 and 1937-1938 depressions and during the 1973-1974 OPEC have been trigger for their huge stock returns. Overrecession. the period 1996-98 period, large-cap growth stock *Schwert (1989a,b)* shows that volatility was higher earned a return of 34% a year, but their operating during recessions and around the major banking performance for this period was not outstanding panics in the nineteenth and early twentieth when compared with the past. The growth rate (incenturies. Negative returns lead to larger increases terms of sales) for the three years was 6% a year in volatility than do positive returns. The risk borne but he average for these companies was 10.3% for by investors in the stock market, and where stock the entire sample period. It is not easy to volatility reflects uncertainty about more continuously perform at higher rate or increasing fundamental economic aggregates, they provide rate. The same thing happens with large-cap information about the health of the economy. companies. *White Eugene N. (1990)*, found that the major Small-cap stocks have historically outperformed reason for the crash of 1929 was the large-cap stocks and value stocks have had higher irrational behavior of the investor. The mania of the return than growth stocks. For the selected period investor was also due to expansion of broker's loan. they have found that small-cap stocks did well and Fundamentals of certain companies supported it. small-cap value stocks did particularly well. Many people who had never bought stock before entered the market. Women, new investors, supplied programs and articles in women's **Literature Review related to Different Phases of Stock Market and Major Factors responsible** *Fredrick Hewish Allen and Galbraith (1931)*, seen magazines. Including irrational behavior of the the stock market bubble beginning in March 1928. In investors other factors were Credit Policy, New April and May Index of New York Exchange Stock Issue, Decision of Authorities for Big increased 15%. He has identified date march 5 on Corporate, Changes in Dividend/Earning of which certain stocks and certain indices increased company, Changes in Tariff, Duties and charges, by significant rate and times. e.g. industrial indices International Effect like Monetary policy of other by 2 times, rail and roads by 1.6 times and utilities countries, Interest Rate of home and other country. more than 3 times during the bubble of 1928. The According to *Barro Robert J. (2009)*, there is high crash of 1929 followed by bubble of 1928. correlation between depression in economy and

46374



crash in stock market. The long-term data also show According to Chen, H., Lobo, B. J., & Wong, W.-K. that the majority (67 percent) of minor, non-war(2006), the U.S. stock plays dominant role in the depressions are accompanied by stock-market relation with Indian and Chinese stock market, crashes, whereas most major, non-war depressions whereas there is an interactive relationship (83 percent) are accompanied by these crashes. between Indian and Chinese stock market.

Kawai (2008), explained Subprime story: Bubble **Research Methodology**

burst in 2008, collapse of the financial system of US, To achieve my above discussed objectives following affected global level. Research Methodology have been carried out.

Avadhani V.A. (2008), has noted that trading on **Type of Research Design:**

May 5th 2000 was Teji (Bullish) while trading the next For my study I have applied Descriptive Research day May 8th, was Mandi (Bearish) both involving design. I have described different facts on the basis wide wings of 140 to 230 points in a day and both of primary and secondary data analysis. In primary sawed by market rumors and sentiment. These days data I have collected opinion of stock brokers and are classical example of role of sentiments on the sub-brokers; and in secondary data I have collected market. The fundamental of the economy were daily data of different Indices of different good. Capitalization of BSE i.e., Sensex, Mid-Cap Index and

Avadhani V.A. (2008), also noted that if purchases Small-Cap Index.

of FIIs are more than sales involving a net long For this study my population for secondary data position, the market may turn out to be Bullish and includes all different stocks of different if net sales are more involving a short position, the capitalizations and their daily price values from the market turn Bearish. date of their listing in Stock Exchanges in India.

Sandeep Kumar and Sweta Bakshi (2009), observed I have observed daily value of selected indices that 1.3% industrial growth is the lowest IIP (Index of during the period from 1st January 2007 to 31st Industrial Production) data ever registered since last December 2009, which was my sample frame. A ten years. April-august growth is 4.9% which also graph is prepared showing lines for daily values of lowest for the first five months of the financial year Sensex, mid-cap and small-cap index. The graph in 14 year period except 1998 and 2001. The could present different phases of stock market from Industrial growth in August of 2008 plummeted to the selected period data. Thus, different phases of mere 1.3% compared to same month in 2007. This stock market viz. bearish, consolidation period and industrial slow down affected transport service too. bullish phase are observed in my study.

Global recession will also lead to less tourists After determining two years period and careful coming to India. That will negatively affect tours study of chart of daily values of different indices and travels industry. The global recession affected i.e. Small-Cap, Mid-Cap and Sensex, I could select a IT, automobile industry and the export-oriented particular period from 10th Sept 2008 to 19th May firms adversely. 2009. This period is the part of the observed overall

Taylor (2009), has come across the fact that the period (1st January 2007 to 30 November 2009), greater depression was marked by banking crisis, which is taken for consideration for detailed unemployment rate soared past 20 percent and 89 analysis.

percent decline in stock prices. Population for the primary data is all the

Desai Jayesh N. (2009), has observed that world experienced and well positioned member stock output rose at 5% in 2007, slowdown at 3.9% and brokers, sub-broker and employees of them, listed 3% in 2008 and 2009 respectively. He found that at Stock Exchanges at national level in India i.e. BSE according to IMF world economic outlook; India and NSE, and having their branch or franchisee at grew at 9.3% in 2007 and 7.9% and 6.9% in year Surat city.

2008 and 2009 respectively. He has also focus on **Scope of Study**

measurement of effect on developing countries, Scope of my secondary data is restricted to selected which can be identify by decrease in Export. period of from 1st January 2007 to 31st December

2009. Scope of my primary data is limited to Surat city.

Source of Data

It becomes easy for me to collect secondary data of daily value of different indices of BSE as they are available on archive of website www.bseindia.com. This source is very efficient and reliable as Bombay stock exchange keeps record of daily data.

Sampling, Sampling Frame and Sample:

For study of different Capitalization stock I have selected different indices of Bombay Stock Exchange i.e. Sensex, Mid-Cap Index and Small-Cap Index. These indices may properly represent all different stocks grouped on the basis of their capitalization. Then on the basis of judgment I have identified particular period in representing bearish, consolidation and bearish phase of stock.

For **Primary data** initially efforts was made to collect the list of broker, as list was not available I have used convenient sampling in that snowball is used. In my survey 56 respondents were surveyed from 39 different offices of 25 different brokers. Out of them 38 were head or owner of the company, whereas 18 were employee of these companies. Sample structure is mention in following table.

Sr. No.	Name of Broker	Respondents are Promoter / Head or Employees		Total respondents	Total number of Broker Offices Visited
		Promoter/Head	Employees		
1	Angle broking	3	0	3	3
2	Arham Share Consultant Pvt. Ltd	1	0	1	1
3	Concept Sec. Pvt. Ltd.	1	1	2	1
4	Dhwaja Shares and Sec. Pvt. Ltd.	1	0	1	1
5	EnamSecurities Direct Pvt. Ltd.	2	0	2	2
6	FairWealth Sec. Ltd.	1	0	1	1
7	HDFC Securities Ltd.	2	0	2	1
8	ICICI Securities Ltd.	2	1	3	1
9	India Infoline Ltd.	3	5	8	3
10	ISE	0	3	3	1
11	Jainam Share Consultant Pvt. Ltd.	3	2	5	4
12	Karvey	1	0	1	1
13	KRChoksey	3	2	5	3
14	Marwadi Shares and Finance Ltd.	1	0	1	1
15	Monarch	1	1	2	1
16	Nirmal Bung	2	0	2	2
17	PrabhudasLilladher Pvt. Ltd.	1	2	3	1

4640



18	Religare Sec. Ltd.	1	0	1	1
19	Roongta Rising Stock Pvt. Ltd.	2	0	2	2
20	South Guj. Shares & Sec. Ltd.	0	1	1	1
21	Sherkhan Ltd.	2	0	2	2
22	SMC Global Sec. Ltd.	2	0	2	2
23	SSJ Finance	1	0	1	1
24	Sunidhi Sec. and Fin. Ltd.	1	0	1	1
25	VSE Stock Services Ltd.	1	0	1	1
Total		38	18	56	39

4641

Data Interpretation

For primary data collection I have used questionnaires. This questionnaire is prepared carefully with consideration of important variables studied in literature review. As the respondents were the expert, open-ended questions were used to give chance to air-out their views without being restricted by forced choices.

Tools for Data Analysis of Secondary Data

First of all, I have used **technical analysis** for the selection of data out of the Sample Frame. In technical analysis I have used concept of support line and resistant line (*S. Kevin, 2009*). Theselines were drawn on the basis of trend lines of selected Indices of different Capitalization Stocks.

For the calculation of Return I have used **Arithmetical Mean** which represents expected return and Risk is calculated on the basis of deviation from mean. Here **standard deviation** has been used for calculation of risk.

For study of significant difference in Return and Risk **ANOVA** has been used with the use of statistical computer package SPSS

(Statistical Package for Social Science). I have used pared t-test of Schiffe.

Analysis of Primary data:

For analysis of primary data frequency distribution is analyzed with the use of **cross tabulation** and **chi-square test**.

Conclusion

As my research work is more focusing on nominal data, I have used Chi-Square Test. This test is used to understand the relationship of opinion about Volume and opinion about Volatility of different capitalization stocks with different phases of Stock market and their time-span. Chi-square test is also used to understand the effect of demographic factor on selection of different capitalization stock to deal with.

In questionnaire some of my questions where open-ended for which I have identified most probable answer and then categories them in different categories.

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4642

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