DERIVATIVE TRADING IN INDIAN STOCK MARKET: INVESTOR'S PERCEPTION WITH REFERENCE TO UDAIPUR

<u>Dr. Dhiraj Jain*</u>

Mr. Nilesh khokhawat**

Abstract

Derivative products like futures and options on Indian stock markets have become important instruments of price discovery, portfolio diversification and risk hedging in recent times. The objective of the study is to analyze the perception of investors regarding the derivatives market in India. The study was conducted on a sample of investors who are active participants in the cash and derivative segment of the NSE and BSE. The primary data for this research was collected from a sample of 140 people who are currently trading in the city of Udaipur, India. The research findings could be utilized by broking firms, investors and scholars for further analysis on investor's perception and to understand this issue critically. This paper explores the perception of investors on cash market and derivative market using data of stock and index futures and options. The result shows that the majority of investors invest in cash market.

Key words : Derivatives , hedge , investment , speculate ,

^{*} Assistant Professor, Pacific Institute of Management, Udaipur (Rajasthan) 313001, India.

^{**} MBA (II), Major (Finance), Pacific Institute of Management, Udaipur (Rajasthan) 313001, India.

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Introduction

Financial derivatives have emerged as one of the biggest markets of the world during the past two decades. A rapid change in technology has increased the processing power of computers and has made them a key vehicle for information processing in financial markets. Globalization of financial markets has forced several countries to change laws and introduce innovative financial contracts which have made it easier for the participants to undertake derivatives transactions. The most significant event in finance during the past decade has been the astonishing development and expansion of financial derivatives.

Derivatives markets in India have been in existence in one form or the other for a long time. In the area of commodities, the Bombay Cotton Trade Association started futures trading way back in 1875. In 1952, the Government of India banned cash settlement and options trading. Derivatives trading shifted to informal forwards markets. In recent years, government policy has shifted in favour of an increased role of market-based pricing and less suspicious derivatives trading. The first step towards introduction of financial derivatives trading in India was the promulgation of the Securities Laws (Amendment) Ordinance, 1995. It provided for withdrawal of prohibition on options in securities. The last decade, beginning the year 2000, saw lifting of ban on futures trading in many commodities. Around the same period, national electronic commodity exchanges were also set up.

Derivatives trading commenced in India in June 2000 after SEBI granted the final approval to this effect in May 2001 on the recommendation of L. C. Gupta committee. Securities and Exchange Board of India (SEBI) permitted the derivative segments of two stock exchanges, NSE and BSE, and their clearing house/corporation to commence trading and settlement in approved derivatives contracts.

Initially, SEBI approved trading in index futures contracts based on various stock market indices

The National Stock Exchange (NSE), located in Bombay is the first screen based automated stock exchange. It was set up in 1993 to encourage stock exchange reform through system modernization and competition. It opened for trading in mid- 1994 and today accounts for 99% market shares of derivatives trading in India.

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The trading in BSE Sensex options commenced on June 4, 2001 and the trading in options on individual securities commenced in July 2001. Futures contracts on individual stocks were launched in November 2001. The derivatives trading on NSE commenced with S&P CNX Nifty Index futures on June 12, 2000. The trading in index options commenced on June 4, 2001 and trading in options on individual securities commenced on July 2, 2001. Single stock futures were launched on November 9, 2001. The index futures and options contract on NSE are based on S&P CNX. In June 2003, NSE introduced Interest Rate Futures which were subsequently banned due to pricing issue.

The study understands and analyzes various strategies used by investors in capital market and also analyzes the various aspects of derivatives. It also gives you idea about the investor's awareness for the derivative market. It also characterizes the rationale why investors are not investing more in F&O market. The study does not cover the perceptions of the brokers and was limited to 140 investors of Udaipur city. In derivative market, only two derivative products futures and options are used for the study.

The survey is important because in this volatile market, it prudent to be familiar with the strategies followed by them and the lessons they have learnt by burning their hands in this stock fire.

Review of literature

In the last decade, many emerging and transition economies have started introducing derivative. The introduction of equity index futures markets enables traders to transact large volumes at much lower transaction costs relative to the cash market. The consequence of this increase in order flow to futures markets is unresolved on both a theoretical and an empirical front contract. Impact of derivatives trading on the volatility of the cash market in India has been studied by **Thenmozhi (2002), Shenbagaraman (2003), Gupta and Kumar (2002) Gupta and Kumar (2002)** found that the overall volatility of underlying market declined after introduction of derivatives contracts on indices.

Thenmozhi (2002) reported lower level volatility in cash market after introduction of derivative contracts. Shenbagaraman (2003) reported that there was no significant fall in cash market

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volatility due to introduction of derivatives contracts in Indian market. Raju and Karande (2003) reported a decline in volatility of the cash market after derivatives introduction in Indian market. All these studies have been done using the market index and not individual stocks. One school of thought argues that the introduction of futures trading increases the spot market volatility and thereby, destabilises the market (Cox 1976; Figlewski 1981; Stein, 1987). Others argue that the introduction of futures actually reduces the spot market volatility and thereby, stabilises the market. (Powers, 1970; Schwarz and Laatsch, 1991 etc.). The advocates of the first school perceive derivatives market as a market for speculators. Traders with very little or no cash or shares can participate in the derivatives market, which is characterised by high risk. Thus, it is argued that the participation of speculative traders in systems, which allow high degrees of leverage, lowers the quality of information in the market. These uninformed traders could play a destabilising role in cash markets (Chatrath, Ramchander and Song, 1995). However, according to another viewpoint, speculation could also be viewed as a process, which evens out price fluctuations. Stein (1987) develops a model in which prices are determined by the interaction between hedgers and informed speculators. In this model, opening a futures market has two effects; (1). The futures market improves risk sharing and therefore reduces price volatility, and (2) if the speculators observe a noisy but informative signal, the hedgers react to the noise in the speculative trades, producing an increase in volatility. In contrast, models developed by **Danthine** (1978) argue that the futures markets improve market depth and reduce volatility because the cost to informed traders of responding to mispricing is reduced. Froot and **Perold(1991) extend Kyle's(1985)** model to show that market depth is increased by more rapid dissemination of market-wide information and the presence of market makers in the futures market in addition to the cash market. Ross (1989) assumes that there exists an economy that is devoid of arbitrage and proceeds to provide a condition under which the noarbitrage situation will be sustained. It implies that the variance of the price change will be equal to the rate of information flow. The implication of this is that the volatility of the asset price will increase as the rate of information flow increases. Thus, if futures increase the flow of information, than in the absence of arbitrage opportunity, the volatility of the spot price must change. Overall, the theoretical work on futures listing effects offer no consensus on the size and the direction of the change in volatility. We therefore need to turn to the empirical literature on evidence relating to the volatility effects of listing index futures and options. Fischer and Jordan (1995) highlighted

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the deep study of Futures and Options, their types, models, pricing and valuation. Rohini Singh (2009) discussed the advantages/disadvantages of using derivatives. Further Evaluate the pay offs from options and their combinations. As far as investment analysis is concerned, appreciate the role of Futures in Portfolio management. N. Ramanjaneyalu and Dr. A. P. Hosmani (2010) highlighted the need for awareness among retail investors. Dr. L. C. Gupta (1996) committee report submitted which suggested that the derivative shall be traded and settled on stock exchanges and clearing houses of the stock exchanges, respectively in accordance with the rules and bye- laws of the stock exchange. As pointed out by Hodges (1992), Mayhew (1999) and others, many of these theories predict that volatility can increase or decrease with the introduction of futures, depending on the underlying assumptions, or depending on the parameter values used in the models. One interpretation of our result is that futures influence the underlying market through multiple, offsetting channels, with the relative importance of the effects depending on the extent of the development of the market. In particular, it appears that futures markets may play an important role in stabilizing less-developed markets. Subrahmanyam (1991) proposed that an uninformed trader will avoid trading with insiders in particular stock by trading in welldiversified index-based derivative instruments which is intact from inside information. If this is the case, the proportion of informed trader in stock market will increase. In order to offset losses from trading with insiders, market maker will increase bid-ask spread and increase stock volatility consequently. Chan and Wei (2001) and Chen and Wu (2001) examined the impacts on both price and trading volume of underlying securities, arising from the introduction of derivative equity warrants in Hong Kong. Both studies demonstrated the existence of a positive price effect, and that price changes were positively associated with trading volume. Kumar, Sarin and Shastri (1998) found evidence in support of the liquidity improvement effect. Their results based on the derivative warrant market do not seem to find supportive evidence of any improvement in liquidity. Géczy, Minton, and Schrand (1997); Koski and Pontiff (1999); Lee and Hoyt (1997); Mian (1996); Nance, Smith, and Smithson (1993); and Tufano (1996), among others conducted research on the determinants of derivative use. These studies have assumed, often unrealistically, that enterprises' motivations for using derivatives as a hedging tool are homogenous. However, firms from different regions or of different organizational structures may face dissimilar economic constraints and conditions that can lead to different derivative choices. Similarly, managers from different segments of an industry may possess dissimilar objectives and

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motivations that also can result in different derivative decisions. Consequently, we might expect the factors that influence a firm's financial instrument choice to vary across segments of an industry, and that common factors may influence firms differently. Clearly, this heterogeneity impacts the efforts of financial institutions in developing appropriate derivatives, particularly for customized products.

Objectives of the study

- 1. To analyze the perception of investors regarding the derivatives market
- 2. To study the association between various demographic determinants and the knowledge about the financial market and awareness about various strategies like butterfly, straddle, strips & straps.

Hypothesis framed for the study

- H₀₁: There is no significant association between demographic factors and the knowledge about the financial markets.
- H₀₂: There is no significant association between demographic factors and the awareness towards various option trading strategies .

Research methodology

Methodology is a way to systematically solve the research problem. In otherwords it is the science of studying how research is done scientifically.

Universe	v	individual investors investing in different avenues
Sampling unit	:	individual investors in Udaipur city
Sample	:	residents of the Udaipur city
Sample size	:	140 respondents
Sampling method	:	simple random and judgment sampling
Instrument		: there were two questionnaire were executed for survey, 1 for cash market and other for cash and future market both

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Data collection

: primary data is collected by communicating with the respondents with the help of a structured questionnaire

Statistical tool : chi square test

Market activity of investors and their perception

140 investors are divided into two categories:

- 1. Investors in cash market segment (109)
- 2. Investors in cash and future market both (31)

Cash market (109)

For cash market out of 109 respondents 98 were males, 11 were females, 6 were single and 103 were married, 11 were under the age group of 25 years, 49 were under the age group of 25-35years, 35 were under the age group of 35-45 years, 12 were under the age group of 45-55 years, 2 were above the age group of 55 years. Qualification wise – 11 were below the 12th, 50 were graduates, 34 were post graduates, and 14 were professionals. Occupation wise – 34 were in business, 53 were in service, 9 were in professional and 13 were in others. Annual income wise – 13 were earning below 150000 Rs, 55 were earning between 150000 - 300000 Rs, 27 were earning between 300000 – 500000 Rs, 13 were earning between 500000 – 700000 Rs, and 1 was earning above 700000 Rs. 2 were having good knowledge, 83 were having average knowledge, and 24 were having no knowledge about financial market.

	Know	ledge about	t <mark>financial m</mark> ar	ket	
		Good	Average	No knowledge	Total
Gender	Male	2	74	22	98
	Female	0	9	2	11
Total		2	83	24	109
Marrital status	Single	1	3	2	6
Marital status	Married	1	80	22	103
Total		2	83	24	109
	< 25 years	0	5	6	11
	25-35years	1	36	12	49
Age Group	35-45 years	1	30	4	35
	45-55 years	0	10	2	12
	> 55 years	0	2	0	2
Total		2	83	24	109

Table 1

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	< 12th	0	5	6	11
Qualification	Graduate	1	35	14	50
	Post graduate	1	30	3	34
	Professional	0	13	1	14
Total		2	83	24	109
	Business	0	23	11	34
Occupation	Service	2	43	8	53
Occupation	Professional	0	9	0	9
Others		0	8	5	13
Total		2	83	24	109
	< Rs 150000	0	7	6	13
	Rs150000-300000	1	39	15	55
Annual	Rs 300000-	1	23	3	27
Annual	<u>500000</u>				
meome	Rs 500000-	0	13	0	13
	700000				
> Rs 700000		0	1	0	1
Total		2	83	24	109

Of the 109 respondents 2 were having good, 83 were having average and 24 were having no knowledge about financial market.

H₀ (Null Hypothesis) : There is no significant association between demographic factors and the Knowledge about the financial markets

	Gender	Marital status	Age	Qualification	Occupation	Annual income
Calculated value (chi square)	.358	8.552	10.529	13.661	10.027	12.063
df	2	2	8	6	6	8
Tabulated value	5.991	5.991	15.507	12.592	12.592	15.507
Accepted/rejected	accepted	rejected	accepted	rejected	accepted	accepted

Table 2

The study reported that gender, age, occupation and annual income of the respondents are not having any significant relationship with the Knowledge about the financial markets. The table shows that the calculated values of chi- square of gender, age, occupation and annual income are less than the tabulated value at 5% level of significance, the null hypothesis is accepted i.e., the knowledge about the financial markets is not dependent upon the gender , occupation and income . And marital

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status and qualification of the respondents are having significant relationship with the Knowledge about the financial markets. The table shows that the calculated values of chi- square of marital status and qualification are higher than the tabulated value at 5% level of significance, the null hypothesis is rejected.

	Type of t	rading into stock i	market	
		speculator	investor	Total
Cardan	Male	60	92	98
Gender	Female	4	11	11
Т	otal	64	103	109
Maritalatatas	Single	1	5	6
Marital status	married	63	98	103
Т	Total		103	109
1.0	< 25 years	6	8	11
	25-35years	33	46	49 <mark></mark>
Age group	35-45 years	20	35	35
	45-55 years	5	12	12
	> 55 years	0	2	2
Т	otal	64	103	109
	< 12th	3	10	11
Ouglification	Graduate	34	47	50
Quantication	Post graduate	21	32	34
	Professional	6	14	14
Т	otal	<u>64</u>	103	109
	Business	18	32	34
Occupation	Service	35	50	53
Occupation	Professional	3	9	9
	Others	8	12	13
Т	otal	64	103	109
	< Rs 150000	8	9	13
	Rs150000-300000	38	54	55
Annual income	Rs300000- 500000	12	26	27
	Rs 500000-700000	5	13	13
	>Rs 700000	1	1	1
Т	otal	64	103	109
YZ 1 1 1 1	Good	0	2	2
Knowledge about	Average	53	80	83
	No Knowledge	11	21	24
Т	'otal	64	103	109

Table 3

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Majority of the respondents are using cash market for investing (103) and speculation purpose (64).out of which the investor between the age group of 25 - 35 years are investing more Because the young investors intend to take more risk.

	Factors considered while making an investment							
			Fundamental	Technical	Tips	Friend's advice	Broker	Total
Cond	or	Male	73	50	28	14	52	98
Female		9	4	5	3	4	11	
	To	tal	82	54	33	17	56	109
Marital	4.0411.0	Single	5	2	0	1	2	6
Marital s	latus	married	77	52	33	16	54	103
	To	otal	82	54	33	17	56	109
		< 25 years	6	3	3	4	4	11
		25-35years	36	26	11	9	31	49
Ag <mark>e gro</mark>	oup	35-45 years	31	20	-11	3	15	35
		45-55 years	8	4	6	1	6	12
		> 55 years	1	1	2	0	0	2
	To	otal	82	54	33	17	56	109
		< 12th	5	1	7	-2	7	11
Qualification	Graduate	35	22	13	12	25	50	
	Post graduate	30	21	9	-1	19	34	
		Professional	12	10	4	2	5	14
	To	tal	82	54	33	17	56	109
		Business	25	15	7	5	24	34
		Service	42	30	18	8	25	53
Occupa	tion	Professional	7	6	3	1	2	9
		Others	8	3	5	3	5	13
	To	otal	82	54	33	17	56	109
	< Rs	s 150000	5	3	6	4	5	13
	Rs1	50000-300000	42	28	15	10	30	55
Annual	Rs 3	300000-500000	23	15	10	2	12	27
meome	Rs 5	500000-700000	11	7	2	1	9	13
	> Rs	s 700000	1	1	0	0	0	1
	To	otal	82	54	33	17	56	109
Knowled	dge	Good	2	1	0	0	0	2
about	t i	Average	72	51	21	8	39	83
tinanci marke	al st	No Knowledge	8	2	12	9	17	24
	To	otal	82	54	33	17	56	109

Table 4

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Of the 109 investors most of the investors believe in fundamental analysis, brokers and technical analysis while some of them rely on tip's and friend's advices. Investors believe that fundamentally strong company will give good returns.

Table	5
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	For having position in cash market indicators used						
		Global sentiments	Indian market sentiments	Industry news	Stock/ company news	Others	Total
Gondor	Male	29	77	22	48	15	98
Gender	Female	3	8	2	8	1	11
To	tal	32	85	24	56	16	109
Marital status	Single	2	4	1	4	1	6
Marital status	Married	30	81	23	52	15	103
To	tal	32	85	24	56	16	109
	< 25 years	1	8	0	5	1	11
	25-35years	13	42	12	23	8	<mark>49</mark>
Age group	35-45 years	16	27	8	17	4	35
	45-55 years	2	8	2	9	3	12
	> 55 years	0	0	2	2	0	2
То	tal	32	85	24	56	16	109
	< 12th	1	6	1	5	3	11
Ouglification	Graduate	13	40	4	23	4	50
Qualification	Post graduate	12	28	13	21	6	34
	Professional	6	11	6	7	3	14
То	tal	32	85	24	56	16	109
	Business	11	28	6	16	7	34
Occupation	Service	15	40	14	28	7	53
Occupation	Professional	3	7	3	5	1	9
	Others	3	10	1	7	1	13
То	tal	32	85	24	56	16	109
	< Rs 150000	0	8	1	6	2	13
	Rs150000- 300000	16	48	7	25	7	55
Annual income	Rs 300000- 500000	8	19	10	17	5	27
	Rs 500000- 700000	7	9	5	7	1	13
	>Rs 700000	1	1	1	1	1	1
То	tal	32	85	24	56	16	109
Knowledge	Good	1	1	2	1	0	2
about	Average	29	62	22	47	11	83
financial market	No Knowledge	2	22	0	8	5	24
То	tal	32	85	24	56	16	109

Highest ranking is given to the Indian market sentiments followed by stock / company news.

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		Reasons for n	ot investing	g in F&O m	arket		
		Market	Huge	Huge	No		
		uncertainty	amount	amount	knowledge	others	Total
		uncertainty	of money	of risk	of F&O		
Gender	Male	23	30	37	33	38	98
Gender	Female	3	3	5	2	5	11
To	tal	26	33	42	35	43	109
Marital	Single	0	2	1	2	1	6
status	Married	26	31	41	33	42	103
To	tal	26	33	42	35	43	10 <mark>9</mark>
	< 25 years	0	6	1	4	2	11
	25-35years	15	18	19	14	25	49
Age group	35-45 years	10	7	17	8	13	35
	45-55 years	1	2	5	7	3	12
	> 55 years	0	0	0	2	0	2
To	tal	26	33	42	35	43	109
	< 12th	0	4	3	7	5	11
	Graduate	8	18	19	19	19	50
Qualification	Post	13	7	12	6	14	34
	graduate	10			ç		51
	Professional	5	4	8	3	5	14
To	tal	26	33	42	35	43	109
	Business	6	9	13	15	15	34
Occupation	Service	16	18	17	16	22	53
Occupation	Professional	2	1	5	2	5	9
	Others	2	5	7	2	1	13
To	tal	26	33	42	35	43	10 <mark>9</mark>
	<rs 150000<="" td=""><td>0</td><td>6</td><td>4</td><td>5</td><td>4</td><td>13</td></rs>	0	6	4	5	4	13
	Rs150000- 3000 <mark>00</mark>	15	22	19	18	24	5 <mark>5</mark>
Annual income	Rs 300000- 500000	7	4	14	9	9	27
	Rs 500000- 700000	4	1	4	3	5	13
	>Rs 700000	0	0	1	0	1	1
To	tal	26	33	42	35	43	109
Knowledge	Good	1	0	0	0	1	2
about	Average	25	26	38	17	31	83
financial market	No Knowledge	0	7	4	18	11	24
To	tal	26	33	42	35	43	109

Table 6

Investors in the cash market do not like to invest in future and option mainly because of other factors and high risk.

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Cash and future market (31)

		Frequency	Percent
Male		28	90.3
Gender	Female	3	9.7
ſ	Total	31	100.0
Marital status	Single	0	0
Marital status	Married	31	100
]	Total	31	100
	< 25 years	1	3.2
	25-35 years	9	29.0
Age group	35-45 years	16	51.6
	45-55 years	3	9.7
	> 55 years	2	6.5
	otal	31	100.0
	Below12th	1	3.2
Qualification	Graduate	12	38.7
Quanneation	Post graduate	10	32.3
	Professional	8	25.8
1	Total	31	100.0
	Business	12	38.7
Occupation	Service	13	41.9
Occupation	Professional	4	12.9
	Others	2	6.5
1	otal	31	100.0
	< Rs 150000	1	3.2
	Rs 150000-300000	5	16.1
Annual income	Rs300000-500000	15	48.4
57 B	Rs 50000-700000	9	29.0
	> Rs 700000	1	3.2
1	otal	31	100.0
Knowledge shout	Good	1	3.2
financial market	Average	30	96.8
manciai market	No knowledge	0	0
7	otal	31	100.0

Table 7

For cash and future market out of 31 respondents 28 were males, 3 were females, all 31 were married, 1 was under the age group of 25 years, 9 were under the age group of 25-35-years, 16 were under the age group of 35-45 years, 3 were under the age group of 45-55 years, 2 were above the age group of 55 years. Qualification wise -1 was below the 12^{th} , 12 were graduates, 10 were post graduates, 8 were professionals.occupation wise -12 were in business, 13 were in service, 4 were in professional and 2 were in others. Annual income wise -1 was earning below 150000 Rs, 5 were earning between 150000 - 300000 Rs, 15 were earning between 300000 -

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500000 Rs, 9 were earning between 500000 – 700000 Rs, and 1 was earning above 700000 Rs. 1 was having good knowledge, 30 were having average knowledge about financial markets.

Awareness of strategies like butterfly, straddle, strips & straps						
		Yes	No	Total		
	Male	5	23	28		
Gender	Female	0	3	3		
Т	Total		26	31		
Marital status	Single	0	0	0		
Marital status	Married	5	26	31		
Т	otal	5	26	31		
	< 25 years	0	1	1		
	25-35 years	2	7	9		
Age group	35-45 years	3	13	16		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	45-55 years	0	3	3		
	> 55 years	0	2	2		
Т	otal	5	26	31		
	Below12th	0	1	1		
Qualifications	Graduate	2	10	12		
Quanneations	Post graduate	0	10	10		
	Professional	3	5	8		
T	otal	5	26	31		
	Business	1	11	12		
Occupation	Service	3	10	13		
Occupation	Professional	1	3	4		
	Others	0	2	2		
T	otal	5	26	31		
	<rs 150000<="" td=""><td>1</td><td>0</td><td>1</td></rs>	1	0	1		
	Rs150000-300000	1	4	5		
Average income	Rs300000-500000	0	15	15		
	Rs500000-700000	3	6	9		
	> Rs 700000	0	1	1		
Total		5	26	31		
Knowladza about	Good	1	0	1		
financial market	Average	4	26	30		
	No knowledge	0	0	0		
Te	otal	5	26	31		

Table 8

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Majority of the investors are not aware about the strategy like butterfly, straddle, strips & straps they use their own strategies.some investors know about such strategy but they have no knowledge how to use such strategy.

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 H_0 (Null hypothesis) : There is no significant relationship between demographic factors and awareness of strategies like butterfly, straddle, strips and straps.

	Gender	Age	Qualification	Occupation	Annual income	Knowledge about financial market
Calculated value	0.639	1.482	4.819	1.620	10.302	5.373
df	1	4	3	3	4	1
Tabulated value	3.841	9.488	7.815	7.815	9.488	3.841
Accepted/rejected	accepted	accepted	accepted	accepted	rejected	rejected

Table 9

The study reported that gender, age, qualification and occupation of the respondents are not having any significant relationship with the awareness of strategies like butterfly, straddle, strips and straps.The table shows that the calculated values of chi- square of gender, age, qualification and occupation are less than the tabulated value at 5% level of significance, the null hypothesis is accepted

And annual income and Knowledge about financial market of the respondents are having significant relationship with awareness of strategies like butterfly, straddle, strips and straps. The table shows that the calculated values of chi- square of annual income and Knowledge about financial market are higher than the tabulated value at 5% level of significance, the null hypothesis is rejected

Type of trading into stock market									
Hedger Speculator Investor Total									
Caralan	Male	9	17	27	28				
Gender	Female	0	2	3	3				
r	Fotal	9	19	30	31				
Marital status	Single	0	0	0	0				

Table 10

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	Married	9	19	30	31
Γ	Total	9	19	30	31
	< 25 years	0	1	1	1
	25-35years	4	6	8	9
Age group	35-45 years	2	10	16	16
	45-55 years	2	2	3	3
	> 55 years	1	0	2	2
Γ	Total	9	19	30	31
	< 12th	0	1	1	1
Qualification	Graduate	5	6	11	12
Qualification	Post graduate	4	5	10	10
	Professional	0	7	8	8
Γ	otal	9	19	30	31
	Business	5	8	12	12
Occupation	Service	4	7	12	13
Occupation	Professional	0	2	4	4
	Others	0	2	2	2
Γ	otal	9	19	30	31
	< Rs 150000	1	0	0	1
	Rs150000-300000	0	3	5	5
Annual income	Rs 300000- 500000	3	9	15	15
	Rs 500000- 700000	4	6	9	9
	> Rs 700000	1	1	1	1
Ţ	Total	9	19	30	31

Majority of the investors using cash and future market for investing as well as speculating while some of them are using them in the market for hedging purposes.

Table 11

	Factors considered while making an investment								
		Fundamental	Technical	Tips	Friend's advise	Broker	Tot al		
Candar	Male	<mark>2</mark> 6	17	2	1	10	28		
Gender	Female	3	1	0	0	3	3		
T	otal	29	18	2	1	13	31		
Marital status	Single	0	0	0	0	0	0		
Maritar status	Married	29	18	2	1	13	31		
T	otal	29	18	2	1	13	31		
	< 25 years	1	0	0	0	0	1		
	25-35years	9	4	0	0	4	9		
Age group	35-45 years	15	11	2	1	7	16		
	45-55 years	2	2	0	0	1	3		
	> 55 years	2	1	0	0	1	2		
T	otal	29	18	2	1	13	31		

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		< 12th	1	0	0	0	0	1
Ouslifies	4	Graduate	11	6	0	0	4	12
Quannea	lion	Post graduate	9	7	1	1	5	10
		Professional	8	5	1	0	4	8
	То	tal	29	18	2	1	13	31
		Business	12	9	1	0	2	12
Occupat	ion	Service	12	7	1	1	7	13
Occupat	1011	Professional	4	2	0	0	2	4
		Others	1	0	0	0	2	2
	То	tal	29	18	2	1	13	<mark>31</mark>
	< Rs	150000	1	0	0	0	0	1
A	Rs15	50000-300000	5	2	0	0	2	5
income	Rs 3	00000-500000	13	7	2	1	9	15
R	Rs 5	<mark>00000-7</mark> 00000	9	8	0	0	2	9
	> Rs	700000	1	1	0	0	0	1
	То	tal	29	18	2	1	13	31

Out of 31 investors in cash and future market 29 investors believe in fundamental analysis because they think investing in fundamentally strong company will give better return's, 18 believe in technical analysis and13 believe in broker's while some of them rely on tip's and friend's advices.

Table 12

	For ha	ving position	in cash and f	uture mark	et indicators u	ised		
	1	Global sentiments	Index movements	Volatility	Price of underlying asset	Open interest	Others	Total
Gandar	Male	11	8	16	19	6	2	28
Gender	female	1	0	0	3	0	1	3
Т	otal	12	8	16	22	6	3	31
Mar <mark>ital status</mark>	Single	0	0	0	0	0	0	0
	Married	12	8	16	22	6	3	31
Total		12	8	16	22	6	3	31
	< 25 years	0	0	1	0	0	0	1
	25-35 years	4	3	3	8	2	2	9
Age group	35-45 years	8	3	9	9	4	1	16
	45-55 years	0	1	2	3	0	0	3
	> 55 years	0	1	1	2	0	0	2
Т	otal	12	8	16	22	6	3	31
	Below12th	0	0	1	0	0	0	1
	Graduate	4	3	8	8	0	1	12
Qualifications	s Post graduate	4	4	4	8	4	1	10
	Professional	4	1	3	6	2	1	8

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Tot	al	12	8	16	22	6	3	31
	<rs 150000<="" td=""><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td></rs>	1	0	0	0	0	0	1
	Rs 150000- 300000	1	1	2	3	0	1	5
Average income	Rs300000- 500000	6	2	5	10	5	2	15
	Rs 50000- 700000	3	4	8	8	0	0	9
	>Rs 700000	1	1	1	1	1	0	1
Tot	al	12	8	16	22	6	3	31
	Business	4	5	10	9	2	1	12
Occurretion	Service	6	1	4	8	2	1	13
Occupation	Professional	2	2	2	3	1	0	4
	Others	0	0	0	2	1	1	2
Tot	al	12	8	16	22	6	3	31

Majority of investors explain the price of underlying asset is one most important indicator than followed by the volatility and global sentiments for having position in cash and future market.

Table 13

	Contra	acts used for future 1	narket	
		Index future	Stock future	Total
Condon	Male	6	22	24
Gender	Female	0	3	3
T	otal	6	25	27
Monital status	Single These	0	0	0
Marital status	Married	6	25	27
T	otal	6	25	27
	< 25 years	0	1	1
	25-35years	4	7	9
Age group	35-45 years	0	12	12
	45-55 years	1	3	3
	> 55 years	1	2	2
T	otal	6	25	27
	Below 12th	0	1	1
Qualification	Graduate	3	10	11
Quanneation	Post graduate	2	9	9
	Professional	1	5	6
Total		6	25	27
	Business	3	12	12
Occupation	Service	2	8	10
_	Professional	1	3	3

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	Others	0	2	2
Total		6	25	27
	< Rs 150000	1	0	1
	Rs150000-300000	2	4	5
Annual income	Rs300000-500000	0	11	11
	Rs500000-700000	2	9	9
	> Rs 700000	1	1	1
Total		6	25	27

Mainly the investors are using stock futures as compare to index futures and they are using these contracts for speculation purpose as compare to hedging purpose.

Table 14

	Selection of future and option month contract								
		Near month	Next month	Far month	T <mark>otal</mark>				
Condor	Male	28	1	0	28				
Gender	female	3	0	0	3				
1	Fotal	-31	1	0	31				
Marital status	Single	0	0	0	0				
Maritar sistus	Married	31	1	0	31				
1	Fotal	31	1	0	31				
	< 25 years	1	0	0	1				
	25-35 years	9	0	0	9				
Age group	35-45 years	16	0	0	16				
	45-55 years	3	0	0	3				
	> 55 years	2	1	0	2				
7	fotal	31	1	0	31				
	Below12th	1	0	0	1				
Qualifications	Graduate	12	1	0	12				
Quanneauons	Post graduate	10	0	0	10				
	Professional	8	0	0	8				
Т	fotal	31	1	0	31				
	Business	12	1	0	12				
Occupation	Service	13	0	0	13				
Occupation	Professional	4	0	0	4				
	Others	2	0	0	2				
]	Total	31	1	0	31				
	<rs 150000<="" td=""><td>1</td><td>0</td><td>0</td><td>1</td></rs>	1	0	0	1				
Average	Rs150000-300000	5	0	0	5				
income	Rs300000-500000	15	0	0	15				
	Rs500000-700000	9	1	0	9				

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Total		31	1	0	31
> Rs	s 700000	1	0	0	1

Majority of the investors selected the near month contract. The reason behind this to forcasting future is very difficult.

Preference of investors for long call desiring long position in underlying asset					
		Long call	Short put	Total	
Gender	Male	21	2	23	
	Female	3	0	3	
Total		24	2	26	
Marital ststus	Single	0	0	0	
	Married	24	2	26	
Total		24	2	26	
2	< 25 years	1	0	1	
	25-35 years	7	0	7	
Age group	35-45 years	11	2	13	
	45-55 years	3	0	3	
	> 55 years	2	0	2	
Total		24	2	26	
	Below12th	1	0	1	
Qualifications	Graduate	7	2	9	
Qualifications	Post graduate	8	0	8	
11	Professional	8	0	8	
Total		24	2	26	
Occupation	Business	7	1	8	
	Service	11	1	12	
	Professional	4	0	4	
	Others	2	0	2	
Total		24	2	26	
Average income	<rs 150000<="" td=""><td>1</td><td>0</td><td>1</td></rs>	1	0	1	
	Rs150000-300000	3	1	4	
	Rs300000-500000	12	1	13	
	Rs500000-700000	7	0	7	
	> Rs 700000	1	0	1	
Total		24	2	26	

Table 15

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There are two types of options – call and put. Investors can enter into long or short call and long or short put as per their perception and choice. In this study the majority of investors (24) are using long call for desiring long position in underlying asset.

Preference of investor for long put desiring short position in underlying assets					
		Short call	Long put	Total	
Gender	Male	3	20	23	
	Female	0	3	3	
Total		3	23	26	
Marital status	Single	0	0	0	
	Married	3	23	26	
Total		3	23	26	
Age group	< 25 years	0	1	1	
	25-35 years	2	5	7	
	35-45 years	1	12	13	
	45-55 years	0	3	3	
	> 55 years	0	2	2	
Total		3	23	26	
Qualifications	Below12th	0	1	1	
	Graduate	1	8	9	
	Post graduate	2	6	8	
	Professional	0	8	8	
Total		3	23	26	
Occupation	Business	1	7	8	
	Service	1	11	12	
	Professional	1	3	4	
	Others	0	2	2	
Total		3	23	26	
Average income	<rs 150000<="" td=""><td>0</td><td>1</td><td>1</td></rs>	0	1	1	
	Rs150000-300000	1	3	4	
	Rs300000-500000	1	12	13	
	Rs500000-700000	0	7	7	
	> Rs 700000	1	0	1	
Total		3	23	26	

Table 16

In this study the majority of investors are using long put for desiring short position in the undelying asset. Because by taking this position investors have unlimited gain and limited loss of option premium.

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