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# ANALYZING THE IMPACT OF INDIAN STOCK MARKET DEVELOPMENTS ON THE BEHAVIORAL PATTERNS OF RETAIL INVESTORS IN THE NORTH COASTAL REGION OF ANDHRA PRADESH - INVESTIGATING THE DYNAMICS OF THE SECONDARY MARKET

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### INTRODUCTION:

A stock exchange is a market which facilitates buying and selling of shares, stocks, bonds, securities and debentures. It is not only a market for old securities and shares but also for new issues shares and securities. In fact, the capital market is related to the supply and demand for new capital, and the stock exchange facilitates such transactions.

The liquidity that an exchange provides affords investors the ability to sell securities quickly and easily. It plays a crucial role in the financial system. It is considered as one of the best ways to increase the funds. But before any investor make any investment into stock market; investor should know how to get started. It may turn out to be a profitable affair as long as we know the tricks of the trade.

### INDIAN STOCK MARKET

Now concentrating on the stock market of India, most of the trading practices in the Indian Stock Market exercised on two stock exchanges namely National Stock Exchange (NSE) and Bombay Stock Exchange (BSE). The BSE is in being since 1875 and has about 5619 listed firms whereas NSE was established in 1992 and has about 1931 listed firms as on 2017-18.

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### STRENGTHS:

- The indexes scrips of Nifty & Sensex are said to be top performing scrips and these should capture much of India's growth over the next few years.
- SEBI a regulatory body of Indian stock market who protects the interest of the investors.
- Bigger Population can also help to bring in additional investments.
- Large number of Brokers who plays a role of facilitator for investment.

- Indian stock market is running with high volatility leads to high risk.
- Poor Indian Accounting disclosures may lead to large scale manipulation of figures by publicly traded companies.
- Dependency on the foreign markets.

### **OPPORTUNITIES:**

- A large number of facilitators, instruments lead to huge amount of resource mobilization.
- More population invites more investments.
- Foreign investors find India is a potential market.
- Cross-border listing is being considered by NSE.
- Rural market is still untapped and if opportunity create in terms of relevant infrastructure and education, inflow of funds towards stock market will increase.

### THREATS:

**WEAKNESS:** 

- Carry trade unwinding
- Global Economic slowdown.
- Currency mismanagement.
- High global commodity prices, over valuation in Index scrips.
- Change in government focus on controlling inflation.
- The attitude of government relating to FII's taxation etc.

### TRENDS IN EQUITY CASH SEGMENT OF BSE:

Period	No. of Companies Listed	No. of Trades (Lakh)	Traded Quantity (Lakh)	Turnover (`crore)	Market Capitalisation (`crore)
1992-93	2861	126	35031	45696	188146
1993-94	3585	123	75834	84536	368071
1994-95	4702	196	107248	67749	468837
1995-96	5603	171	77185	50064	563748
1996-97	5832	155	80926	124190	505137
1997-98	5853	196	85877	207113	630221
1998-99	5849	354	129272	310750	619532
1999-00	5815	740	208635	686428	912842
2000-01	5869	1428	258511	1000032	571553
2001-02	5782	1277	182196	307292	612224
2002-03	5650	1413	221401	314073	572197
2003-04	5528	2028	390441	503053	1201207
2004-05	4731	2374	477171	518715	1698428
2005-06	4781	2640	664455	816074	3022190
2006-07	4821	3462	560777	956185	3545041
2007-08	4887	5303	986010	1578857	5138014
2007-08	4887	5303	986010	1578857	5138014
2008-09	4929	5408	739600	1100074	3086075
2009-10	4975	6056	1136513	1378809	6165619
2010-11	5067	5285	990777	1105027	6839084
2011-12	5133	3944	654137	667498	6214941

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2012-13	5211	3235	567220	548774	6387887
2013-14	5336	3632	479951	521664	7415296
2014-15	5624	7111	856755	854845	10149290
2015-16	5911	4117	762545	740089	9475328
2016-17	5834	3919	707231	998261	12154525
2017-18	5619	3586	771603	1082968	14224997
Dec-18	5232	2358	385982	582625	14448466

Source: SEBI Hand Book of Statistics.

### STATEMENT OF THE RESEARCH PROBLEM:

The process of financial reforms implemented in the country has created remarkable changes in various aspects of Stock market, in particular, has undergone a radical transformation both in terms of size and automation and is now comparable to the developed markets with respect to turn over, market capitalization and efficiency.

India ranked second in terms of number of listed companies (1923 Dec-2018) in NSE, next only to the USA (4,397 for the year 2018). But, the success of the stock market developments practice should not be viewed from the angle of how much amount of money is being turned over or how much portfolio investment flows in. The real test is how much benefit all these developments bring in terms of market growth, including simplification of investment procedure, savings mobilization and capital formation. Successful financial reforms should result in strengthening the ability of authorized body to do what they need to do by helping to generate higher growth, higher revenues and higher productivity.

The present study attempts to find out whether the stock market of the country is just a burgeoning casino or a meaningful institution that influences the real economy. Specifically the study attempts to capture the link between Stock market developments in India in the post-reform period and its influence on behavioral aspects of retail investors. The present study reveals that some basic aspects- the link between stock market development and long term economic growth, the causal relationship between stock prices and major macro economic variables, and how the stock market developments are showing impact on retail investors in terms of decision making, investment preference and risk hedging patterns etc.

### **OBJECTIVES OF THE STUDY:**

The present study is aiming to investigate the investor's perception towards investment in Equity market in north costal Andhra Pradesh and the objectives are

## To examine the impact of secondary market developments onretail investors. METHODOLOGY:

The study is empirical in nature. A survey has been conducted for the collection of primary data. The survey is confined to Visakhapatnam, Vizianagaram and Srikakulam Districts only. A well structured questionnaire is planned to use and elicit the information from the respondents.

### **SAMPLE SIZE:**

The total retail investor population in three districts (Srikakulam, Vizianagaram and Visakhapatnam) in Coastal Andhra Pradesh is 4180. The researcher have used simple random sampling technique method and collected 418 samples.

DISTRICT	TOTAL RETAIL POPULATIO		RESPONDENTS CONSIDERED FOR THE STUDY (10%)
	ANGEL BROKING	180	18
	IL&FS LIMITED	210	21
	STEEL CITY SECURITIES LTD.	240	24
SRIKAKULAM	WAY2WEALTH BROKERS PVT.LTD.	170	17
	APOLLO SINDHOORI CAPITAL INVESTMENTS LTD.	120	12

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	KARVY STOCK BROKING LTD.	250	25
TOTAL			117
	ANGEL BROKING	100	10
	STEEL CITY SECURITIES LTD.	170	17
VIZIANAGARAM	KARVY STOCK BROKING LTD.	250	25
	KOTAK SECURITIES LTD.	220	22
	APOLLO SINDHOORI CAPITAL INVESTMENTS LTD.	240	24
TOTAL			98
DISTRICT	TOTAL RETAIL I POPULATION		RESPONDENTS CONSIDERED FOR TH STUDY (10%)
	SHAREKHAN 22 LTD.	30	23
	RELIANCE SECURITIESLTD. 30	00	30
	MOTILALOSWAL 23	50	25
VISAKHAPATNAM	KARVY STOCK 2' BROKING LTD.	70	27
	KOTAK SECURITIESLTD. 24	40	24
	BONANZA PORTFOLIO 25	50	25
	ANGEL BROKING LTD. 22	30	23
	STEEL CITY SECURITIES 20 LTD.	50	26
TOTAL	<u> </u>		203

SOURCE: AS PER THE RECORDS OF STOCK BROKING AGENCIES

**HYPOTHESIS:** The hypothesis were formulated and examined by selecting the certain variables like age, gender, education, occupation and monthly income of the investors for the purpose of the study.

### H<sub>01</sub>. There is no significant difference between secondary market developments

And investment preferences of retail investors.

### SECONDARY MARKET DEVELOPMENTS

The secondary market is a market where existing securities are purchased and sold. Stock market represents the secondary market where existing securities (shares & Debentures) are traded, Stock exchanges provides an organized mechanism for purchase and sale of existing securities.

In this chapter, several relevant developments of secondary market related which are initiated by SEBI are discussed with the help of some statistical tests.

- 1. Commencement of trading in options on individual securities.
- 2. Commencement of trading in Futures on individual securities.
- 3. Launch of ETF.
- 4. Commencement of Retail Debt Market Trading.
- 5. Commencement of trading in Index Options.

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- 6. Launch of Interest Rate Futures.
- 7. Launch of F&O in Bank Nifty Index.
- 8. Introduction of Equity Derivatives with a tenure of 3 years.
- 9. Introduction of Commodity Derivatives.

### STOCK OPTIONS SCENARIO AT NSE

	Stock Options			
Period	Call		Put	
Terrou	No. of Contracts	Turnover (`crore)	No. of Contracts  4  NA 269370 1066561 1338654 1098133 1074780 889018 1457918 3533002 34,02,123 82,34,833 1,19,29,088 2,42,78,974	Turnover (`crore)
1	2	3	4	5
Jun-00-Mar-				
01	NA	NA	NA	NA
2001-02	768159	18780	269370	6383
2002-03	2456501	69644	1066561	30490
2003-04	4258595	168174	1338654	49038
2004-05	3946979	132066	1098133	36792
2005-06	4165996	143752	1074780	36518
2006-07	4394292	161902	889018	31909
2007-08	8002713	308443	1457918	50693
2008-09	9762968	171843	3533002	57384
2009-10	1,06,14,147	3,89,158	34,02,123	1,16,907
2010-11	2,42,73,560	7,77,109	82,34,833	2,53,235
2011-12	2,45,65,283	6,71,770	1,19,29,088	3,05,261
2012-13	4,24,99,219	13,02,779	2,42,78,974	6,97,648
2013-14	5,03,00,025	15,43,894	2,98,74,406	8,65,594
2014-15	6,12,04,473	22,43,382	3,02,74,736	10,39,170
2015-16	6,53,22,962	23,25,030	3,49,76,212	11,63,144
2016-17	6,12,05,774	41,47,488	3,09,00,238	19,59,998
2017-18	8,62,82,094	67,28,007	4,01,29,282	29,27,002
18-Dec	8,98,86,434	64,19,787	4,48,47,854	29,77,748

SOURCE: SEBI HAND BOOK OF STATISTICS

The above table represents trading volume of national stock exchange in terms of stock call option contracts along with its turnover and stock put option contracts along with its turnover. In the year of 2001 the total stock call option contracts were 768159 and it will reached to 8,98,86,434 by the December 2018, it records a growth rate of 117 times.

Several secondary market related developments initiated by SEBI are discussed with the help of some statistical tests.

# BELOW MENTIONED SECONDARY MARKET DEVELOPMENTS INSPIRED INVESTOR TOWARDS THEIR INVESTMENT DECISION

Opinion Marked with  $\sqrt{\ }$  in any one FS–Fully Satisfied, S–Satisfied, NI–No Idea, NS–Not Satisfied, FNS–Fully Not Satisfied.

### PERCENTAGE SCORE - WISE LEVEL OF AWARENESS OF SECONDARY MARKET DEVELOPMENTS

Sl.No.	Secondary Market Developments	%	Level of Awareness				
		Score	FS	S	NI	NS	FNS
1.	Commencement of trading in options on individual securities	98.44	95.0	3.8	1.2		
2.	Commencement of trading in Futures on individual securities	86.30	47.8	49.5	2.6		
3.	Launch of ETF	80.38	30.4	61.2	7.9	0.5	
4.	Commencement of Retail Debt Market Trading	85.35	49.3	42.8	7.9		
5.	Commencement of trading in Index Options	79.43	42.6	32.5	24.9		
6.	Launch of Interest Rate Futures	81.70	42.1	42.6	15.3		

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7.	Launch of F&O in Bank Nifty Index	81.58	44.5	37.6	17.7	0.2	
8.	Introduction of Equity Derivatives with a tenure of 3 years	86.06	53.3	37.8	8.6	0.2	
9.	Introduction of Commodity Derivatives	90.13	63.2	34.2	2.6		

The above table illustrates on how Secondary market developments inspired people towards investment. Commencement of trading in options on individual securities motivated a very high percentage of people to start investing in stock options actively. A percentage of 98.44 got inspired to start investing in trading because of trading in options on individual securities.

Commencement of trading in Futures in individual securities in the secondary market also inspired 86.30% people to start investment. Launch of ETF is another major factor which encouraged 80.38% people to start share market investment. Commencement of retaildebt market trading in the secondary markets motivated 85.35% people and commencement of trading in index options inspired 79.43% people.

Launch of Interest rate Futures and Launch of F&O in Bank Nifty Index also highly motivated people to join investment trading. It inspired 81.70 and 81.58% peoplerespectively. Introduction of Equity Derivatives with tenure of 3 years in the secondary markets inspired about 86.06% people and finally, Introduction of Commodity derivatives influenced 90.13% of the total people to take up trading as a means of investment.

**Regression Analysis:** Secondary Market Development versus Age, Gender, Education, Occupation, Monthly Income, Monthly savings, Type of the investor, Type of market operated, Experience in the market and % of savings invested in Stock.

### REGRESSION ANALYSIS OF SECONDARY MARKET DEVELOPMENTS

REGRESSION IN VIETE SIS OF SECONDINAL VIETNAME DE VEROT VIETNAME.									
Predictor	Coef	SE Coef	T	P					
Constant	4.20452	0.08556	49.14	0.000					
Age of investor	0.00705	0.01091	0.65	0.519					
Gender of investor	0.00647	0.03272	0.20	0.843					
Educational Qualification	-0.053423	0.009479	-5.64	0.000					
Occupation	-0.014414	0.006541	-2.20	0.028					
Monthly Income	0.01122	0.01660	0.68	0.500					
Monthly Saving	0.073049	0.009933	7.35	0.000					
Type of Investor	-0.08291	0.02391	-3.47	0.001					
Type of Market Operated	0.11626	0.01424	8.17	0.000					
Experience in the Market	0.02598	0.01623	1.60	0.110					
Mention the Percentage of your	0.01481	0.02259	0.66	0.512					

R-Sq(adj) = 83.4%, P-value: 0.000

Since the p-value of the R-square(64.1%) is less than 0.05, the level of significance which exemplifies that the variation between independent variables and dependent variable(Secondary Market developments) are statistically significant at 5% level. Further, demographic factors explain 83.4% of variation on this aspect. Educational qualification, occupation, monthly savings, type of investor and type of market operated shows significant impact on the secondary market development at 5% level. For these variables, ANOVA tests and T-test are performed to know the significant difference in the average opinion scores among the different categories of the respondents.

# ANOVA ANALYSIS OF SECONDARY MARKET DEVELOPMENTS VS AGE, EDUCATION, MONTHLY INCOME, TYPE OF INVESTOR, TYPE OF MARKET OPERATED AND PERCENAGE OF SAVINGS INVESTED

Independent					T/F-	P-Value	Decision
Variables	Category	N	Mean	SD	Value		
Education	SSC	63	4.3016	.07035	53.941	0.000	S
	Inter	125	4.5964	.18374			
	Graduate	116	4.3180	.10657			
	Post Graduate	54	4.3333	.23146			
	Professional Degree	60	4.4481	.24968			
Occupation	Government Employee	113	4.4179	.16751	10.804	0.000	S
_	Private Employee	175	4.4775	.26803			
	Business	33	4.3300	.16074			
	Professional Services	97	4.3471	.09789			
Monthly Saving	Up to 2500	33	4.2458	.09922	14.775	0.000	S
	2501 - 4500	67	4.3184	.12063			

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	4501 - 6500	190	4.4772	.23667			
	6501 - 8500	73	4.4216	.12417			
	Above 8501	55	4.4444	.25211			
Type of Investor	Hereditary Investor	103	4.5782	.26005	9.676	0.000	S
	New generation Investor	315	4.3675	.16365			
Type of market	Primary Market	180	4.3500	.12345	98.879	0.000	S
Operated	Secondary Market	166	4.3829	.18932			
	Both	72	4.6775	.24397			

The above table explains about the respondents opinion on secondary market development by their Education, Occupation, Monthly savings, type of investor and type of market operated. The average opinion score of the respondents who were from intermediate educational background is given more positive opinion when compare with other four categories of the educational qualification.

The average opinion score of the private employees are given more positive opinion when compare with other occupation groups on secondary market developments i.e., this category occupation category respondents has more awareness on secondary market developments when compare with other categories. The respondents whose monthly savings is in between 4501-6500 are given more positive opinion on the above dimension which reveals that this monthly savings group respondents are having optimistic opinion on secondary market developments when compared with other three savings groups followed by above 8500 savings groups.

With regard to the type of investor, the average opinion score of the respondents who are the hereditary investors is significantly greater than the new generation investor category which explains that the hereditary investors has significantly more positive opinion on secondary market developments when compared with New generation investor at 5% level of significance. Further, the respondents who invested their money in both primary and secondary markets are having more awareness on secondary development market when compared with individual investment categories as per the significant p-value of the ANOVA test mentioned above.

### **CONCLUSION:**

Individual investor perception can influence that of stock market and this in turn can influence the state of the economy. So the players and regulators should endeavor to protect the interests of individual investors and create confidence in their mind.

The task of the regulators has been to establish a vibrant capital market where financial assets are fairly priced on their intrinsic value so that they release the right signals for right investment decisions. The protection of the interests of the investors - especially the individual investors - is an imperative for the development and smooth functioning of the capital market.

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http://www.bseindia.com

http://www.nseindia.com

http://www.shodhganga.inflibnet.ac.in

### **ANNEXURE**

Below mentioned Regulatory Developments inspired you towardsyour investment decision? Please Mark  $\sqrt{}$  in any one FS-Fully Satisfied, S-Satisfied, NI-No Idea, NS-Not Satisfied, FNS-Fully Not Satisfied

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Sl.N	Regulatory Market Developments	Leve	l of Av	vareness		
0.		FS	S	NI	NS	FNS
1.	Establishment of investor Grievance Cell					
2.	Establishment of NSCCL, First Clearing Corp.					
3.	Centralized Insurance Cover for all trading members					
4.	Establishment of investor protection fund					
5.	Launch of S&P CNX Nifty					
6.	Setting up NSDL					
7.	Launch of CNX Nifty Junior					
8.	Regional clearing facility initiation					
9.	Launch of NSE Website					
10.	Launch of certification Courses on financial markets					
11.	Establishment of Credit Rating Agencies					
12.	Commencement of Internet Trading					
13.	Commencement of WAP Trading					
14.	Appointment of Ombudsman for investor protection					
15.	Allowing investor for lending & Borrowing for short-selling without					
	STT					
16.	Launch of financial literacy initiative "Jagruthi" in Barrackpore, in					
	partnership with India Post.					
17.	SEBI Makes Dividend Distribution policy must for top 500 listed					
	firms.					
18.	SEBI Approved REIT (Real Estate Investment Trusts)					

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