

## ROLE OF SEBI IN FINANCIAL FRAUD DETECTION, INVESTIGATION AND PREVENTION

## - AN OPINION SURVEY

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#### Abstract

India has had its share of frauds and their incidence has often significantly impacted investor confidence. In an atmosphere of doubt and disbelief financial statements are often viewed with skepticism. This has also led to erosion of confidence and reduced trust among participants in the financial system. The present study is made an attempt to analyze and compare the perception of select investors, stock brokers and sub-brokers, auditors, stock exchange officials, SEBI officials on the role of SEBI in fraud detection, investigation and prevention practices. With the help of perceptions collected from the sample respondents analyzed and interpreted with the help of appropriate statistical tools. It is concluded from this study is that the market regulator i.e., SEBI is performing an excellent role in detection, investigation and prevention practices by updating regulatory aspects from the time to time for the protection of interests of investors.

Keywords: Fraud Detection, Fraud Investigation, Fraud Prevention.

## 1. Introduction

Fraudulent financial reporting practices can have significant consequences for organizations and all stakeholders, as well as, for public confidence in the capital and security markets. In fact, comprehensive, accurate and reliable financial reporting is the bedrock upon which our markets are based. Frauds occur with alarming periodicity and cannot be regulated. But can be tried to minimize its deleterious impact. Historically, scams have led to regulatory reforms, including forming institutions and strengthening the institutional framework. Increased co-ordination between the various regulators is imperative to ensure perpetrators do not fall between the cracks.

Investors are equally susceptible fraud can be looked at in two different ways. One way of looking at fraud is to assume that those who commit fraud are genius or creative people who always find innovative ways to commit fraud. This research paper is aimed to compare the perception of five groups of respondents on the role of SEBI in fraud detection, investigation and prevention practices.

## 2. Review of Literature

In search of some preventive actions to avoid or at least reduce frauds, many researchers have investigated the related factors (Albrecht *et al.*, 2007; Bar-Gill & Bebchuck, 2003; Hemray, 2004; Lev, 2003; Rezaee, 2002). A large part of literature has focused specifically on the reasons of financial frauds and its impact on the investors. Shah (1999) has documented many of the institutional improvements in the Indian securities markets. Other paper by Shah and Thomas (2000) investigates the design of the securities market, the practice of risk



management, and market microstructure. Sabarinathan (2010) assesses the efficiency and structure of the statutory levels operated by SEBI. This assessment concludes that SEBI is an efficiently authorized and autonomous competent regulator<sup>1</sup>.

## 3. Research Gap

There are numerous studies which have conducted by many researchers on various topics related to capital market scams, time to time initiatives of market regulator to curb the scams and its working and performance from its inception. This study is different from the existing studies in a manner that it has aimed to compare the perception of five groups of respondents on the role of market regulator in fraud detection, investigation and prevention practices.

## 4. Objective of the Study

The important objective framed for this study is that to collect and analyze the perception of select investors, stock brokers, officials from stock exchanges and SEBI and auditors on the role of SEBI in fraud detection, investigation and prevention practices.

## 5. Hypothesis of the Study

 $H_0$ : There is no significant difference in the perception of five different categories of respondents on the role of SEBI in fraud detection, investigation and prevention practices.

## 6. Research Methodology

The research methodology used in the present study is presented as follows:

**6.1. Sources of Data:** This study is mainly based on primary data. The primary data was collected through structured questionnaire. The questionnaire is divided into three parts such as 20 statements each related to fraud detection, investigation and prevention practices.

**6.2. Type of Sample:** The sample selection for this study is done by using purposive sampling. The purpose of this study is to judge the role of SEBI in fraud detection, investigation and prevention practices with the help of opinions collected from select respondents.

6.3.	Sample	Size:	The	detailed	sample	respondent	groups	and	their	representation	are
pres	ented in t	able-1.									

	Table-1: Segmentation of Sample Respondents				
No.	Type of Respondents	No. of Respondents			
01	Retail Investors	250			
02	Stock Brokers and Sub-brokers	50			
03	Stock Exchange Officials	15			
04	SEBI Officials	05			
05	Auditors	50			

<sup>&</sup>lt;sup>1</sup>. http://www.vikalpa.com/pdf/articles/2010/Vik354-02-ResGSabarinathan.pdf



Total	370
Source: Compiled from primary data.	

**6.4. Statistical Tools:** The data collected was tabulated, presented, analyzed, tested and interpreted with the help of Kruskal-wallis test and chi-square test.

**6.5. Reliability:** Cronbach's alpha is the most common measure of internal consistency ("reliability"). The results of the overall reliability statistics are presented in table-2.

Table-2: Overall Reliability Statistics				
Cronbach's Alpha	Cronbach's Alpha Based	N of Items		
	on Standardized Items			
.948	.947	60		
Source: Compiled primary data and processed with the help of SPSS package.				

The Cronbach's Alpha value is greater than 0.80 hence the study is valid.

## 7. Perception of Respondents on the Role of SEBI in Fraud Detection, Investigation and Prevention Practices

SEBI is molding itself over the period of its inception for the purpose of protection of interests of investors and smooth running of capital market operations. There is a doubt that the SEBI is successfully detecting, investigating and preventing the fraudulent and unfair trade practices in the capital market. Hence, this research paper is aimed to analyze the perception of investors, stock brokers, market regulators and auditors on role of SEBI in fraud detection, investigation and prevention practices. The perception of select respondents on these three important practices of SEBI is discussed and presented in the following paragraphs:

## 7.1. Perception of Respondents on the Role of SEBI in Fraud Detection Practices

Fraud detection is known as identifying fraud as quickly as possible when it has been perpetrated. Once fraud prevention fails, Fraud detection comes into play. Fraud detection must be used continually, because one may be unaware that fraud prevention has failed. Fraud detection is a continuously evolving process. Whenever fraudsters come to know that one detection method is in place, they will change their strategies and try others.

Here the Kruskal-Wallis H Test is used to determine whether there is a significant difference in the perception of select respondents regarding role of SEBI in fraud detection practices. The hypothesis for the test is framed and presented as follows:

 $H_{01}$ : There is no significant difference in the perception of five different categories of respondents on the role of SEBI in fraud detection practices.

The mean ranks of respondent groups on fraud detection practices are presented in table-3.

Table-3: Mean Ranks of Response on Fraud Detection Practices				
	Respondents	Ν	Mean Rank	
Response	Investors	2000	1355.39	

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	Stock Brokers	400	1735 75
	Stock Diokers	400	1755.75
	Stock Exchange Officials	120	1930.70
		10	1005.00
	SEBI Officials	40	1935.83
	Auditors	400	1681 55
	Tuditors	400	1001.55
	Total	2960	
Source:	Computed from the primary data wit	th the help of S	PSS Package.

It is observed from the table-1 that the total number of relations processed is 2,960. Out of which investors, stock brokers, stock exchange officials, SEBI Officials and auditors are 2000, 400, 120 40 and 400 respectively. The mean ranks of five groups are 1355.39, 1735.75, 1930.70, 1935.83 and 1681.55. Only **eight questions** are processed for this test such as question number 1, 2, 3, 5, 6, 7, 8 and 20. The Kruskal-Wallis test statistics are presented as follows:

Test Statistics <sup>a,b</sup>				
	Response			
Chi-Square	168.555			
df	4			
Asymp. Sig.	0.000			
a. Kruskal Wallis Test				
b. Grouping Variable: Respondent	ŝ			
Source: Computed from the primary dat	ta with the help of SPSS Package.			

The chi-square test statistic value is 168.555 with degrees of freedom of 4. The 'p' value of the statistic is less than 0.05. Hence, null hypothesis is rejected and alternative hypothesis is accepted inferring that there is a significant difference in the perception of five different categories of respondents on the Role of SEBI in Fraud Detection Practices.

As per Kruskal-Wallis Test there is significant difference in the perception of five groups of respondents but it does not tell which specific groups differed. Post hoc tests are run to confirm where the differences occurred between groups. Post hoc tests attempt to control the experiment-wise error rate (usually alpha = 0.05) in the same manner that the one-way ANOVA is used instead of multiple t-tests. Tukey's honestly significant difference (HSD) test is more appropriate to use for this data with the assumption of homogeneity of variance. The multiple comparisons of group mean differences and its significant levels are presented in the table-4.

Table-4: Multiple Comparisons of Group Means on Fraud Detection Practices of SEBI								
	Dependent Variable: Response							
	Tukey HSD							
	(J) Respondents	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence			
(I) Pospondonts					Interval			
(1) Respondents					Lower	Upper		
					Bound	Bound		
Investors	Stock Brokers	482*	.055	.000	63	33		
1117051015	Stock Exchange Officials	747*	.094	.000	-1.00	49		

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	SEBI Officials	555 <sup>*</sup>	.147	.002	96	15	
	Auditors	389*	.055	.000	54	24	
	Investors	.482*	.055	.000	.33	.63	
Stool: Prokora	Stock Exchange Officials	264	.105	.086	55	.02	
Stock Diokers	SEBI Officials	073	.154	.990	49	.35	
	Auditors	.093	.071	.686	10	.29	
	Investors	$.747^{*}$	.094	.000	.49	1.00	
Stock Exchange	Stock Brokers	.264	.105	.086	02	.55	
Officials	SEBI Officials	.192	.172	.798	28	.66	
	Auditors	.358*	.105	.006	.07	.64	
	Investors	.555*	.147	.002	.15	.96	
SERI Officials	Stock Brokers	.073	.154	.990	35	.49	
SEDI Officials	Stock Exchange Officials	192	.172	.798	66	.28	
	Auditors	.166	.154	.817	25	.58	
	Investors	.389*	.055	.000	.24	.54	
Auditors	Stock Brokers	093	.071	.686	29	.10	
Auditors	Stock Exchange Officials	358*	.105	.006	64	07	
	SEBI Officials	166	.154	.817	58	.25	
*. The mean difference is significant at the 0.05 level.							
Source: Computed f	Source: Computed from the primary data with the help of SPSS Package.						

As per the table-4, there are five groups and each group mean is compared with other four groups mean to know that there is significant difference at 5% level in the perception of groups on the role of SEBI in fraud detection practices. The means for groups in homogeneous subsets are displayed as follows.

<b>Response on Fraud Detection Practices of SEBI</b>							
Tukey HSD							
Deers on Jean to	NT	Subse	Subset for alpha = 0.05				
Respondents	IN	1	2	3			
Investors	2000	3.28					
Auditors	400		3.67				
Stock Brokers	400		3.76	3.76			
SEBI Officials	40		3.83	3.83			
Stock Exchange Officials	120			4.03			
Sig.		1.000	0.627	0.168			
Means for groups in homogeneous subsets ar	e displayed.	-					
a. Uses Harmonic Mean Sample Size = 144.152.							
b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error							
levels are not guaranteed.							
Source: Computed from the primary data with the help of SPSS Package.							

Finally it is observed from the above table that there are three subsets. Out of which investors' perception is unique. Auditors, stock brokers and SEBI officials have the similar perception on the fraud detection practices of SEBI and the third subset is stock brokers, SEBI officials and stock exchange officials' perception is one and same on the issue.

7.2. Perception of Respondents on the Role of SEBI in Fraud Investigation Practices



"No vibrant corporate growth can be expected if most investors have so little confidence in corporate managements and various agencies, which are supposed to protect investors". This situation called for a strong official initiative from the regulators and government for introducing radical reforms in corporate governance in the stock market. Capital markets are rampant with fraud. Investigators are frustrated with their lack of success in protecting the integrity of the public market place.

Here the Kruskal-Wallis H Test is used to determine whether there is a significant difference in the perception of select respondents regarding role of SEBI in fraud investigation practices. The hypothesis for the test is framed and presented as follows:

 $H_{02}$ : There is no significant difference in the perception of five different categories of respondents on the role of SEBI in fraud investigation practices.

Table-5: Mean Ranks of Response on Fraud Investigation Practices					
	Respondents	Ν	Mean Rank		
	Investors	1250	952.70		
	Stock Brokers	250	718.58		
Dosponso	Stock Exchange Officials	75	1136.62		
Response	SEBI Officials	25	1407.00		
	Auditors	250	876.65		
	Total	1850			
Source: Comp	uted primary the primary data with the	he help of SPS	S Package.		

The mean ranks of respondent groups on fraud investigation practices are presented in table-5

It is evident from the table-5 that the total number of relations processed is 1,850. Out of which investors, stock brokers, stock exchange officials, SEBI Officials and auditors are 1,250, 250, 75, 25 and 250 respectively. The mean ranks of five groups are 952.70, 718.58, 1136.62, 1407.00 and 876.65. Only **five questions** are processed for this test such as question number 25, 27, 28, 29 and 30. The Kruskal-Wallis test statistics are presented as follows:

Test Statistics <sup>a,b</sup>				
	Response			
Chi-Square	89.955			
df	4			
Asymp. Sig.	0.000			
a. Kruskal Wallis Test				
b. Grouping Variable: Respondents				
Source: Computed from the primary data with the help of SPSS Package.				

The chi-square test statistic value is 89.955 with degrees of freedom of 4. The 'p' value of the statistic (0.000) is less than 0.05. Hence, null hypothesis is rejected and alternative hypothesis is accepted inferring that there is a significant difference in the perception of five different categories of respondents on the Role of SEBI in Fraud Investigation Practices.

As per Kruskal-Wallis Test there is significant difference in the perception of five groups of respondents but it does not tell which specific groups differed. Post hoc tests attempt to



control the experiment-wise error rate. The multiple comparisons of group mean differences and its significant levels are presented in the table-6.

Table-6: Multiple Comparisons of Group Means on Fraud Investigation Practices of SEBI						
Dependent Variable: Response						
	Tul	key HSD				
(I) Respondents	(J) Respondents	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Bound
					Stock Brokers	.591*
Investors	Stock Exchange Officials	348*	.119	.030	67	02
Investors	SEBI Officials	794*	.179	.000	-1.28	31
	Auditors	.287*	.067	.000	.10	.47
	Investors	591*	.067	.000	77	41
Cturl Durland	Stock Exchange Officials	939*	.131	.000	-1.30	58
Stock DIOKEIS	SEBI Officials	-1.385*	.187	.000	-1.90	88
	Auditors	304*	.086	.004	54	07
	Investors	.348*	.119	.030	.02	.67
Stock Exchange	Stock Brokers	.939*	.131	.000	.58	1.30
Officials	SEBI Officials	446	.211	.215	-1.02	.13
	Auditors	.635*	.131	.000	.28	.99
SEBI Officials	Investors	.794*	.179	.000	.31	1.28
	Stock Brokers	1.385*	.187	.000	.88	1.90
	Stock Exchange Officials	.446	.211	.215	13	1.02
	Auditors	$1.081^{*}$	.187	.000	.57	1.59
Auditors	Investors	287*	.067	.000	47	10
	Stock Brokers	.304*	.086	.004	.07	.54
	Stock Exchange Officials	635*	.131	.000	99	28
	SEBI Officials	-1.081*	.187	.000	-1.59	57
*. The mean difference is significant at the 0.05 level.						
Source: Computed from the primary data with the help of SPSS Package.						

It is observed from the table-6 that there are five groups and each group mean is compared with other four groups mean to know that there is significant difference at 5% level in the perception of groups on the role of SEBI in fraud investigation practices. The means for groups in homogeneous subsets are displayed as follows.

Response on Fraud Investigation Practices of SEBI						
Tukey HSD						
Despendents	N	Subset for alpha = 0.05				
Respondents	IN	1	2	3	4	
Stock Brokers	250	3.15				
Auditors	250	3.45	3.45			
Investors	1250		3.74	3.74		
Stock Exchange Officials	75			4.09		
SEBI Officials	25				4.53	
Sig.		0.224	0.279	0.118	1.000	
Means for groups in homogeneous subsets are displayed.						
a. Uses Harmonic Mean Sample Size = 88.299.						



b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

Source: Computed from the primary data with the help of SPSS Package.

Finally it is observed from the above table that there are four subsets. Out of which stock brokers and auditors, auditors and investors, investors and stock exchange officials, and SEBI officials' groups responses are arranged in first, second, third and fourth subsets respectively. Finally it is found that the SEBI official's perceptions are unique and there is uniformity in the perception of stock brokers and auditors, auditors, auditors and investors, investors and stock exchange officials.

#### 7.3. Perception of Respondents on the Role of SEBI in Fraud Prevention Practices

Prevention is always better than cure. The same is being followed up by SEBI. SEBI is playing a proactive role in prevention of fraudulent activities by taking some initiatives such as taking an action in a phased manner by framing the guidelines for the conduct of trades, for placing the orders and giving the code of conduct for the market intermediaries, brokers and regulators.

Here the Kruskal-Wallis H Test is used to determine whether there is a significant difference in the perception of select respondents regarding role of SEBI in fraud prevention practices. The hypothesis for the test is framed and presented as follows:

 $H_{03}$ : There is no significant difference in the perception of five different categories of respondents on the role of SEBI in fraud prevention practices.

Table-7: Mean Ranks of Response on Fraud Prevention Practices					
	Respondents	Ν	Mean Rank		
Response	Investors	1250	867.53		
	Stock Brokers	250	988.75		
	Stock Exchange Officials	75	1160.80		
	SEBI Officials	25	1156.00		
	Auditors	250	1064.06		
	Total	1850			
Source: Com	puted from the primary data with	n the help of S	PSS Package.		

The mean ranks of respondent groups on fraud prevention practices are presented in table-7.

It is evident from the table-7 that the total number of relations processed is 1,850. Out of which investors, stock brokers, stock exchange officials, SEBI Officials and auditors are 1,250, 250, 75, 25 and 250 respectively. The mean ranks of five groups are 867.53, 988.75, 1160.80, 1156.00 and 1064.06. Only **five questions** are processed for this test i.e., question number 45, 51, 52, 53 and 56. The Kruskal-Wallis test statistics are presented as follows:

Test Statistics <sup>a,b</sup>				
	Response			
Chi-Square	59.210			
df	4			
Asymp. Sig.	.000			
a. Kruskal Wallis Test	· · · ·			
b. Grouping Variable: Respondents				

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Source: Computed from the primary data with the help of SPSS Package.

The chi-square test statistic value is 59.210 with degrees of freedom of 4. The 'p' value of the statistic (0.000) is less than 0.05. Hence, null hypothesis is rejected and alternative hypothesis is accepted inferring that there is a significant difference in the perception of five different categories of respondents on the Role of SEBI in Fraud Prevention Practices.

As per Kruskal-Wallis Test there is significant difference in the perception of five groups of respondents but it does not tell which specific groups differed. The multiple comparisons of group mean differences and its significant levels are presented in the table-8.

Table-8: Multiple Comparisons of Group Means on Fraud Prevention Practices of SEBI						
Dependent Variable: Response						
Tukey HSD						
(I) Respondents	(J) Respondents	Mean Difference	Std. Error	Sig.	95% Confidence Interval	
					(1-3)	Bound
					Stock Brokers	242*
Investors	Stock Exchange Officials	628*	.131	.000	98	27
Investors	SEBI Officials	642*	.199	.011	-1.19	10
	Auditors	386*	.075	.000	59	18
	Investors	.242*	.075	.011	.04	.45
Stools Prolong	Stock Exchange Officials	386	.144	.058	78	.01
Stock Brokers	SEBI Officials	400	.208	.308	97	.17
	Auditors	144	.097	.568	41	.12
	Investors	.628*	.131	.000	.27	.98
Stock Exchange	Stock Brokers	.386	.144	.058	01	.78
Officials	SEBI Officials	014	.234	1.000	65	.63
	Auditors	.242	.144	.448	15	.64
SEBI Officials	Investors	.642*	.199	.011	.10	1.19
	Stock Brokers	.400	.208	.308	17	.97
	Stock Exchange Officials	.014	.234	1.000	63	.65
	Auditors	.256	.208	.735	31	.83
Auditors	Investors	.386*	.075	.000	.18	.59
	Stock Brokers	.144	.097	.568	12	.41
	Stock Exchange Officials	242	.144	.448	64	.15
	SEBI Officials	256	.208	.735	83	.31
*. The mean difference is significant at the 0.05 level.						
Source: Computed from the primary data with the help of SPSS Package.						

It is observed from the table-8 that there are five groups and each group mean is compared with other four groups mean to know that there is significant difference at 5% level in the perception of groups on the role of SEBI in fraud prevention practices. The response on fraud prevention practices subset for alpha is presented as follows:

#### **Response on Fraud Prevention Practices of SEBI**

#### **Tukey HSD**

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Respondents	N	Subset for	Subset for alpha = 0.05		
Kespondents	1	1	2		
Investors	1250	3.36			
Stock Brokers	250	3.60	3.60		
Auditors	250	3.74	3.74		
Stock Exchange Officials	75		3.99		
SEBI Officials	25		4.00		
Sig.		0.119	0.096		
Means for groups in homogeneous subsets are displayed.					
a. Uses Harmonic Mean Sample Size = 89.250.					
b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.					
Source: Computed from the primary data with the help of SPSS Package.					

Finally it is observed from the above table that there are two subsets. Out of which investors, stock brokers and auditor's groups responses are arranged in first and except investors remaining groups are arranged in second sub-set. Finally it is found that the stock brokers and auditors perceptions are similar on the role of SEBI in fraud prevention practices.

#### 8. Conclusion

It is concluded from the perceptions of respondents that the existing corporate governance guidelines prevent frauds, existing system prevents violations by entities, regulator's current crisis management helps to maintain financial stability, current system prevents money laundering activities and SEBI is playing efficient role in registering and regulating stock brokers in order to prevent the fraudulent financial practices. The perception of Investors' and SEBI officials is unique on the role of SEBI in fraud detection and fraud investigation practices. Auditors' and stock brokers' perceptions are similar on the role of SEBI in fraud prevention practices.

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