WOMEN DIRECTORS COMPENSATION AND FIRM PERFORMANCE OF EMERGING ECONOMY INDIA

Abstract

The new norm presence of one women director*** was introduced in 2015 for the firm listed on Indian stock exchange. Thus by using agency theory and Institutional theory frame work, the study uses the data from BSE-500 firms to test relation ship between women directors pay-performence sensitivity and impact of compensation on firm performence by using multivariate regression analysis.

The study finds oppurtunistic earning on the part of the directors, ineffective institutional norms and very low pay to performance relationship. The study adds significantly to the literature of executive compensation and firm performance

Key words:Corporate governance, executive compensation, women director, firm perormance, Indian firms.

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*** Women directors means both executive and non-executive directors as defined under Clause-49 of listing agreement of Indian stock exchange (Equivalent to SOX act, USA)

Introduction:

Early studies in this area focused on an effort to understand the true nature of the payperformance link by considering the unexplored factors which are sufficient enough to cause the variation in the results. A variation in results has caused and thereby provides recommendations for future research aimed at developing a more integrated research agenda (Sousa & Voss, 2002). This study is to further investigate the relationship between executive compensation and firm performance and identify the future research agenda. Accordingly, the study strive to reexamine the relationship between executive compensation and firm performance using extant literature so as to remove fundamental confusion about the pay-performance link.

Indian Studies on compensation and performance

(2002)opined that through the board of directors, Kakani Ray shareholders retain the services of a CEO/MD to maximise the shareholder as well firm value. One might guess that there can be relation in CEO/MD compensation and a firm 's performance. The argument for the regular increase in pay was to attract and retain talent at the senior managerial level. Additionally, it has been argued that the risk and responsibility at the senior level needs to be compensated by a sufficient increase in the pay packet. Ghosh, A. (2003) studied the relationship for board structure, CEO/MD compensation and performance of Indian firms. authors have examined how the level and different components of executive an effect on the performance. compensation have The relation in compensation and performances has to be non-linear. Ghosh (2003) findings were - There are effects of the compensation of the CEO on the performance

; there is a non-linear relation between pay and performance of the firm; and pay-performance sensitivity is higher for the smaller firms comparison to the larger firms. Ghosh (2003) have shown performance is very sensitive to the pay of the CEO/MD in comparison to the compensation of the entire board and the structure of the compensation also has an important role in determining the performance. Parthasarathy, Menon and Bhattacharjee (2006) in their study investigated the determinants of executive compensation using data on performance, governance compensation for a large sample of Indian firms. The results shows that no profitability measures is important determinant of total CEO/MD pay. Firm size is a significant variable in explaining both total CEO/MD pay and the proportion of variable or incentive pay that a CEO/MD receives. They also proposed that CEO/MD compensation was a function of three distinct sets of parameters: (a) firm performance and shareholder wealth, (b) firm specific characteristics and (c) corporate governance parameters because the issue of compensation is complex as number of factors playing a crucial role in the determination of compensation. The main contribution of the Ghosh (2003) study was their study on compensation as very limited literature available on the determinants of top executive compensation in Indian firms. Ghosh (2006) in this studies shows, determination of Board and CEO Compensation and he examines the effect of governance, performance and diversification on board as well as CEO compensation and its components in Indian firm. This paper found that board compensation largely depends on current and past year firm performance and compensation depends on present year firm performances. Other point mentioned on CEO compensation, was that size of the firm is more significant important pay to performance relation. However, majority of studies show a positively related pay to performance relation but it seems low in most of the cases.

Objectives

The main objective of this study are-

With change in the legal system that is, introduction of Companies act, 2013 and modification in Clause-49-

- 1: How much is the sensitivity of firm performance to women director compensation post-reform.
- 2. What is the effect of the women directors compensation on firm performance

Theories:

Agency theory states that an agency problem exists when an agent, such as a Directors or a top executive, acts in a manner that is not necessarily in line with the interest of the shareholders which, needless to say, is to maximize share value, but instead aims at maximizing personal wealth (Attaway, 2000).

Due to that the relationship between executive compensation and firm performance exhibits varying degrees of relation depending on the context, and sometimes even a negative relationship, the subject has been widely researched over the years.

Institutional theory by Dimaggio (1983) portrays— Coercive, Normative and Mimetic as the Guiding force that anchors the other constructs. Since the organization compensation practices and policy is responsible for the overall compensation of the firm director compensation, and the Development and direction of the firm. Therefore the institutional norms has important role to play in setting up the directors compensation of the firm.

According to Institution theory, Coercive, Normative and Mimetic pressure independently monitor strategic compensation challenges facing a firm and evaluate director performance. However, a noticeable gap in the research in the failure to examine the application of this Coercive, Normative and Mimetic pressure in the design of Director 'compensation skills or the processes to maximize the firm compensation strategy

Literature:

There is relationship between presence of compensation of Women directors and firm performance: Although, the constitution of India grants equal rights to both Men's and Women's of India, the average representation of women in corporate India in the year 2009 was 4.1% in comparison to global average of 9.1 %(See annexure-I). It might be reason that, the section 149(1) of the India's Companies Act, 2013, was introduced which states that -

"such class or classes of company as may be prescribed shall have at least one woman director" having paid up share capital in excess of Rs. 100 crores (16 million US \$; OR Rs. 62 per US \$ on 29th December' 2014) or turnover of Rs. 300 crores (48 million US \$; OR Rs. 62 per US \$ on 29th December' 2014) or more shall appoint a woman director within 3 years from the commencement of the 2nd proviso as above"

SEBI, Capital market regulator in India, on 16th September' 2014, relaxed provision for appointing at least one woman director by April 1, 2015.

Some studies suggest female managers have eleven points higher mean total emotional intelligence scores than their male colleagues as reported by Mandell and Pherwani's study (2003), using Bar-On Emotional Quotient Inventory.

This report link mentioned below that there is a correlation between performance and the proportion of women on executive board. Available at http://www.europeanpwn.net/files/mckinsey_2007_gender_matters.pdf

There is evidence to suggest that Female directors bring more fairness and transparency as well as improve overall efficiency of the company they lead, Catalyst (1993), non-profit research firm in US, notes 82% of the 50 most valuable Fortune 500 firms were found to include at least one-woman director on the board.

Two years later, Catalyst (1995) reports that of the top 100 US companies in terms of revenue, 97 had at least one-woman board member.

Based on the 1993 Ashridge survey of the Top 200 UK companies, it was found that 49 companies (25%) have women on their boards: an increase from 21 companies (11%) in 1989. The results also indicate that women are much more likely to be non-executive directors, she noted that women might have a slight edge over men in strategic planning.

Shrader et al. (1997) who examined firm financial performance with gender diversity at the middle-and upper-management, and at the board of director levels for large firms, find in general, a positive link between women in management positions with firm financial performance. They explained the positive performance relationship by suggesting that these companies were recruiting from a relatively larger talent pool, and subsequently recruited more qualified applicants regardless of gender.

Due to the under representation of women, there has been relatively little research conducted on women directors to performance (Burke, 1997).

Erhardt (2003), results supports, the hypothesis, that executive board of director diversity was positively associated with both ROA and ROE.

Thus, diversity with boards of directors appeared to have an impact on overall organizational performance.

Hypothesis:

The alignment hypothesis (Jensen, 1993) takes the following form;

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Firm performance=f(compensation + control variable)

Total compensation=F( firm performance + control variables)
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Research Methodology

In order to determine how well the regression model explains the relationship between the included variables, there are a number of econometrics tests at the researcher's disposal

The method of choice

Given the discussion about the common practice for researching the pay performance relationship, this study adopts a regression model where total compensation for top-management will be held as the dependent variable and a combination of accounting— and market based variables are the independent variables. The study spans over a period for one year, 2016, the year when the one women director per firm was introduced. The sample is constructed using BSE— 500 companies listed on the Bombay stock exchange. The methodology largely follows that of Jensen, 1990; Murphy, 1985, who by studying the American stock market which arguably can be said to hold some resemblance to this study.

Descriptive statistics:

From the table 1 the return on capital employes (ROCE) for the year 2016 of the 407 firms drawn from the BSE-500 has mean of 15 and standard deviation of 16. The return on networth (RONW) of these firms has mean 13 and standard deviation 23.

P/E ratio is with mean 76 with the standard viation of 433.

P/BV is with mean 123 and standard deviation of 4.79.

Net sales mean of these firms are Rs. 13015 crores, standard deviation is Rs. 37291 crores.

Advertisement expenditure is Rs. 94 crores (mean with standard deviation of Rs. 474 crore.

R easear and development expenditure (R & D) is Rs 7.21 crores (mean) and standard deviation of Rs 51.02 crores. The Earning per share (EPS) is mean 37 and standard deviation of 253.

The total compensation paid to the women directors of these firms are Rs. 42.93 lakhs (mean) with standard deviation of Rs. 2.87 crores.

Table-1

Descriptive Statistics

					
	N	Minimum	Maximum	Mean	Std. Deviation
ROCE (%) [Latest]	499	-28. 12	172. 89	15. 9384	16. 64094
RONW (%)[Latest]	499	-206. 05	313. 51	13. 9846	23. 11142
Price Earning	498	. 00	5950. 00	76. 6151	433. 48282
(P/E)[Latest]	490	.00	5950.00	70.0131	433. 40202

Price to Book Value (P/BV)[Latest]	498	-27.77	123. 11	4. 7971	9. 71012
Net Sales[Latest](RS.)	499	12. 59	455891.63	13015. 5654	37291. 67526
Advertisement[Latest] (RS.	499	. 00	8847. 93	94. 6612	474. 86465
R & D Expenses[Latest] (RS.)	499	0	923	7.21	51. 029
EPS (Adj) (Unit Curr.)[Latest]	500	-84. 6	5578.7	37. 802	253. 0671
[Remuneration -Unit Curr (Latest)](Rs.)	547	0	612600000	4293185.01	28778075. 520
Valid N (listwise)	498				

Data source: Annual statement of BSE-500 Indian traded firms

 $Note-Net\ sales\ \hbox{,advertisemnet\ ,total\ remuneration\ and\ R\ and\ d\ is\ in\ crores\ of\ indian\ rupes.\ I\ 1crore\ =100\ lakhs$

Regression analysis:

From the table-2 the model no I to V looks at the impact of the compensation on firm performance by using accounting measure (EPS, RONW & ROCE) and Market measure (P/E, P/BV).

The model no. Vi is to measure pay -performance sensitivity (Jensen, 1990). The model no vii includes the market measure to test the sensitivity. The model VIII and IX includes the dummy to measure the mpact of promoters directors and independent directors.

 $$\operatorname{Table}{-2}$$ Regression of firm performance on compensation of women directors for the year 2016

Independent Variable	YEAR 2016	YEAR 2016	YEAR 2016	YEAR 2016	YEAR	Year 2016	Year 2016	Year	Year
	EPS	ROCE	RONW	P/E ratio	2016	Tot. Comp.	Tot. Comp.	2016	2016
	I	II	III	IV	P/BV	VI	VII	Tot. Comp.	Tot. Comp
					V			VIII	IX
Intercept	36. 485**	16. 196**	14. 025***	79. 711***	4. 917**	6156994**	6386221.18**	4966722. 4**	10132782.1*
	(2.958)	*	(12.543)	(3.776)	*	(3. 132)	(3. 152)		**
					(10.17)				

^{,1}crores=10 millions.1 US \$ =Rs. (indian) 67

		(20. 389)							
Corporate governance variable									
Total compensation	-0. 011 (-0. 234)	-0. 047 (-1. 058)	-0. 034 (-0. 764)	-0. 014 (-0. 305)	-0. 025 (- 0. 570)	-	-	-	-
Control Variable	(0.204)				0.010)				
Net sales	0. 012 (0. 255)	-0. 144** (-3. 100)	-0. 066 (-1. 411)	-0. 033 (-0. 691)	- 0. 114** (- 2. 435)	-0. 012 (-0. 259)	-0. 013 (-0. 280)	-0. 008 (-0. 179)	-0. 026 (-0. 566)
R & D expenses	0. 007 (0. 166)	0. 055 (1. 242)	0. 051 (1. 136)	-0. 015 (-0. 333)	-0. 003 (- 0. 058)	_	-	-	-
Advertisement Exp.	0. 009 (0. 194)	0. 171*** (3. 685)	0. 097** (2. 076)	0. 043 (0. 900)	0. 158** (3. 389)	_	_	=	-
EPS	-	-	-	-	-	-0. 007 (-0. 155)	-0. 007 (-0. 155)	-0. 005 (-0. 103)	-0. 011 (-0. 239)
ROCE	-	-	-	-	_	-0. 043 (-0. 757)	-0. 043 (-0. 757)	-0. 042 (-0. 726)	-0. 046 (-0. 789)
RONW	-	-	-	-	-	-0. 009 (-0. 167)	-0. 010 (-0. 167)	-0. 010 (-0. 171)	-0.001 (-0.013)
P/E	=	-	-	-	-	-	-0. 017 (-0. 367)	-0. 027 (-0. 589)	-0. 017 (-0. 374)
P/BV	-	-	-	-	-	-	-0. 012 (-0. 250)	-0. 013 (-0. 284)	-0.008 (-0.169)
Dummy women controlling shareholder (promoter) director	-	-	-	-	-	-	-	0. 151** (3. 381)	-
Dummy women Independent director	-	-	-	-	-	-	-	-	-0. 122** (-2. 706)
\mathbb{R}^2	0.02	0. 19	0.11	0.05	0. 16	0.05	0.05	0.02	0.01
F	0.058***	5. 086***	1. 69	0.30	3. 51***	0.31	0. 24	1.84**	1. 26
Obsevation	547	547	547	547	547	547	547	547	547
N(firms)	407	407	407	407	407	407	407	407	407

*** Indicates statistical significance at the .01 level, two-tailed **Indicates statistical significance at the .05 level, two-tailed * Indicates statistical significance at the .10 level, two-tailed. T-value in parenthesis. ROCE is the ratio of the which measure the performance of a company as a whole in using all sources of long-term finance. RONW is a ratio that shows the extent to which companies manage their own capital (net worth) to effectively and measure the profitability of the investments made by its own capital owners or shareholders of the company. EPS is a measurement of the company's per-share performance. P/BV calculated by dividing the stock price by book value. Book value is calculated by subtracting intangible assets and liabilities from total assets. P/E ratio measures the number of times a stock quotes as a multiple of its earnings per share. Model -VII represent study of Jensen, 1990; Murphy, 1985,

Findings

There is a negative relationship between the total women director compensation and firm performance It is in alignment with the earlier literation and study, based on Dutch firms by Duffheus and Kabir (2008) who also reports a negative relation.

Their is low pay-performance sensitivity which is also in aligned with the literature (Jensen, 1990; Murphy, 1985,)

Although no hypothesis was made on the control variable R & D expenditure which is very low and in some regression model negatively co-related to R & D expenditure of firm performance can be expressed in words of (Jensen, 1993, P.854-855),

"In this case the firm's shareholders suffered an opportunity loss equal to the value that could have been created if the firm had paid the funds out to them and they had invested it in equivalently risky projects. The opportunity cost of R&D and capital expenditures thus can be thought of as the returns that would have been earned by an investment in equivalent-risk assets over the same time period.".

The regression result indicates the compensation is in non alingnment with the firm performance, the dummy variable for women promoter directors indicates that it may lead to higher compensation of directors, Sonja Fagernis (2007), also reports that CEOs related to founding members or directors are paid more than other CEOs. Sarkar and Sarkar (2009), reveals in India marked level of concentration is in the hand of the "Promoters" (i.e. Founding and controlling/Dominant shareholders). Ghosh. A(2006), notes compensation was higher on an average Rs. 69 lakhs(6.9 millions) when the CEO was related to the founding family. The dummy regression result of women independent director presents evidence that presence of women independent Directors lowers the pay.

Conclusion

It confirms Jensen (1993) non -alignment of compensation hypothesis with the firm performance.

POLICY IMPLICATION

·Compensation committee(clause 49 of listing agreement) should Linearly aligned compensation to firm performance, by making stock option mandatory in compensation(Jensen and Murphy, 2004)

- ·Agency Power-Promoters presence affecting over compensation need for dilution of powers of promoters.
- ·Compensation committee design of compensation should be free from the influence of promoter's, compensation should be objectively set.

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Table 3: International comparison of women on boards

Country	% of Women on Boards
Australia	9.9%
Hong Kong	7.6%
Japan	0.9%
New Zealand	11.4%
Singapore	5.7%
Industrialised Asia-Pacific	3.6%
Austria	6.7%
Belgium	6.5%
Denmark	12.1%
Finland	21%
France	8.2%
Germany	9%
Greece	9.5%
Iceland	14.3%
Ireland	7.1%
Italy	3.6%
The Netherlands	10.3%
Norway	35.9%
Portugal	0.4%
Spain	6.6%
Sweden	23%
Switzerland	8.4%
UK	7.8%
Industrialised Europe	9.6%
Canada	11.3%
US	11.4%
North America	11.4%

Source: Women on Boards: A Statistical Review by Country, Region, Sector and Market Index; Governance Metrics International, March 2009

Country	% of Women on Boards
China	6.6%
India	4.1%
Indonesia	4.1%
Malaysia	4.2%
Pakistan	4.6%
Philippines	23%
South Korea	1%
Taiwan	6.4%
Thailand	8.7%
Emerging Markets – Asia	4.7%
Czech Republic	4.4%
Hungary	10.2%
Poland	10.2%
Russia	5.8%
Turkey	9.7%
Emerging Markets – Europe	7.8%
Egypt	7.1%
Israel	12.5%
Morocco	0%
South Africa	14.6%
Emerging Markets – Middle East and Africa	12.4%
Argentina	4.1%
Brazil	3.9%
Chile	2.4%
Colombia	11.3%
Mexico	6.5%
Peru	3.6%
Emerging Markets – Latin America	4.7%
Total Emerging Markets	6%
	8.9%