Corporate Governance and Performance of Indian Companies: Case Study

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Abstract: Corporate Governance is considered to have significant implications for the growth prospects of an economy. Good Corporate Governance practices are regarded as important in reducing risk for investors, attracting investment capital and improving the performance of the firms. However, the way in which corporate governance is organized differs between countries, depending on their economic, political and social contexts. Given the importance of the research problem to the field of corporate finance and for resolving the inconsistent research findings in the prior literature, the co relation between individual governance mechanism and performance of firms have been looked into.

The study made an attempt to focus on five years data from 2006-2010 but due to non-availability of data of 5 years for all the companies finally the study could include only 163 companies from the BSE 200 list. The purpose of this research paper was to examine the relationship between individual corporate governance mechanism and performance of Indian companies. A correlation matrix has been presented to describe the linear relationship between five governance facets and six performance variables.

Keywords: Corporate Governance, Performance, Governance mechanism

I. Introduction

Corporate Governance is the set of processes, customs, policies, laws and institutions affecting the way a corporation is directed or controlled. Corporate Governance also includes the relationships among the many participants involved and goal for which the corporation is governed. In this regard, corporate governance has succeeded in attracting a good deal of public interest because of its importance for the economic health of corporations and society in general. However the concept of corporate governance has been considerable interest in the corporate governance practices of modern corporations, particularly the high profile collapses of firms such as Satyam, Enron Corporation etc.

The question of corporate governance in India has come mainly in the wake of economic liberalization, deregulation of industry and business as also the demand for a new corporate ethos and stricter compliance with the legislation. The new economic policies adopted by the Government of India since 1991 has necessitated the demand for introduction and implementation of a proper corporate governance policy in management of companies not only in the interests of their stakeholders but also for the overall development of the country.

There has been considerable research in the domain of corporate governance in recent years in India. In the light of the growing importance of India in the world economy as a source of intellectual capital and outsourcing possibilities, there is an urgent need to understand the governance structures in India India's cultural values are different from other countries values, are shaped by history and institutions and form the backdrop of businesses in a country. The dynamism of these influences in India has resulted in a complex blend of ownership forms that include family governance, professional and foreign owned firms. The corporate governance also has to take into account the legal, regulatory, institutional and ethical environment of the community. Corporate success and sustainable economic growth rest with good governance. A firm which has good governance system has better image and greater value, higher profits and higher sales growth than those with poor governance system (Paul et al. 2003). Furthermore, corporate governance will promote enterprise and ensure accountability. Different countries follow different models of corporate governance depending upon their environment, cultural background etc. The importance of corporate governance had not been felt and practice in the past until the economic crisis hit many parts of the western and Asian countries. The current wave of reform of Corporate Governance commenced with the Cadbury code of practice published by the London Stock of Exchange in 1992. Corporate Governance has now become the subject of intense debate in the background of the recent scam involving the world's leading firms that include Enron, WorldCom, Xerox and others and has become a mainstream issue and subject of discussion for boardroom, academics circles, government and regulators. These incidents highlighted the importance and status of corporate governance the world over.

In effectual, poor corporate structure increase the risk of fraud, corporate failure or both. Further, with the wave of globalization, mergers and acquisition, there is an increasing competition where only the strong survive, brought the corporation towards better governance system. Corporate Governance concerns the exercise of power in corporate entities and has wider implications and is critical to economic and social well-being,

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firstly in providing the incentives and performance measures to achieve business success, and secondly in providing the accountability and transparency to ensure the equitable distribution of the resulting wealth. Thus the quantity, quality and frequency of financial disclosure, accountability, transparency in corporate functioning for maximizing shareholders wealth are the progressive elements and indeed the underlying spirit of corporate governance. Failure in Corporate Governance is a real threat to the future of every corporation and to the economy, therefore the weakness of corporate should be tackle and assess for healthy future.

II. Literature Review

Brown, Robinson, Caylor (2004), study the linkages between Corporate Governance to Firm Performance using 2,327 firms based on 51 corporate governance provision provided by Institutional Investors Services (ISS) and using Pearson and Spearman correlation analysis finds that firms with poor governance are relatively less profitable and less valuable. Further they find that executive and director compensation are highly associated with good performance while governance category, charter/by laws, is least associated with good performance.

Johnson, Boone, Breach, Friedman (2000) study whether the weakness of legal institutions for corporate governance had an important affect on the extent of depreciation and stock market declines in the context of Asian countries during the crisis. Taking a sample of 25 firms of emerging markets and using regression co-efficient analysis finds that managerial agency problems can make countries with weak legal system vulnerable to loss of investor confidence that results in fall in asset value and decline in exchange rate. They find that corporate governance variables affect more variation in exchange rate and stock market performance than macroeconomic variables.

Todd Milton (2004), in his study on corporate governance and dividend policy in emerging market, with a sample of 365 firms from 19 countries found that firms with stronger corporate governance have higher dividend payout and also there is an increase negative relationship between dividend payout and growth opportunities. Moreover, firms with stronger governance show higher profits. The study also reveals that countries with stronger investor protection have a limitation of dividend payout. Further, country level investor protection and firm level corporate governance are complementary to each other. (Shareholder prefers higher dividend paid when the firm has weak legal protection and vice versa. CG rating developed by credit Lyonnais securities Asia, CLSA-2001 is used.)

Bernard Black (2001), in his study on the relationship between CG behavior and market value of Russian firm took a sample of 21 Russians firms. The study reveals that CG behavior has a strong impact/effect on the market value in a country where legal and cultural constraint on corporate behavior is weak. According to the reports of World Bank, Public corporations in East Asia typically have low levels of transparency and disclosure quality. Some commentators and policy advisors believe that a closer adherence to international disclosure rules and the adoption of international accounting standards are essential for improving corporate transparency in the region (World Bank, 1998, East Asia).

Jayanth R. Varma (2002) studies and documents the accounting scandals and corporate frauds that came to light during 2001 and 2002 of Enron and other companies in the United States and elsewhere. It then describes the failure of governance and supervision as well as the failure of market discipline that took place and go on to analyze the lessons that can be drawn from these episodes. He concluded that while the Enron and related scandals represent a massive regulatory failure those failures are inherent in the regulatory process. Regulators are poor at detecting fraud, and therefore suggest that market discipline should be strengthened. Further the study also suggest four important measures: encouraging hostile take-over, allowing free short selling, permitting and facilitating class action lawsuits, and promoting competition in the securities industry.

Joh, (2003) study the affect of poor corporate governance system on firm profitability in the context of Korean firms before the crisis and also investigate whether other factor also contribute to poor performance. Using a data of 5829 Korean firms for the period 1993-1997 in which firm profitability was measure through its performance by using accounting profitability and regression analysis while controlling industry fixed effect. He concluded that poor corporate governance and weak legal environments prevails even before the crisis that contribute for poor firm performance besides this lower controlling by family ownership and financial investment in affiliated firm also effects firm profitability. Firms with higher control- ownership disparity showed lower profitability. Back, Kang & Park (2004) study the effect of corporate governance on firm performance during Korean crisis (1997), using a sample of 644 non- financial listed on the Korean Stock exchange between November 1997-December 1998 and using a statistical regression analysis, they concluded that firms with larger equity ownership by foreign investors experience a smaller reduction in their share value. Firms that have higher disclosure quality and alternative sources of external financing also suffer less and affiliated firms also exhibits larger drop in equity value. Firms that have higher cash flow than the voting rights and those that borrow more from the bank has lower returns and similar effects on diversified firms, those with high leverage and those that are small and risky. They also find that agency problem between controlling

shareholders and minority shareholders is much serious during the crisis and concentrated ownership has strong incentives to maximize either their own utility or overall size rather than individual firms. *Klapper & Love* (2004) investigate the determinants of firm-level governance, their relationship with the country legal environments and the correlations between governance and performance taking data from 495 firms in 25 countries. Using Tobin Q'(as a market valuation of the firm) and Return on Assets(ROA) as a measure of operating performance finds that governance is higher in countries with stronger legal protection(using three legal efficacy measures-judicial effiency, antidirectors rights and legality), however there is no systematic relationship between variation in firm level ranking and country legal-efficiency.

Drobetz et.al., (2004) tried to find evidence for a possible relationship between corporate governance and firm performance within a single jurisdiction. Rather than looking at the regulatory environment or ownership structure that effects all firms within a country they focus on the relationship between a large set of governance proxies and firm performance in German public listed firms. To measure the relationship, they use corporate governance rating as a proxy for firm level governance quality and found that C.G is highly correlated with better operating performance, higher stock return and higher valuation. For investigating expected stock return, Historical return and dividend yields(d/p2) of 50 months is used and for C.G and firm valuation Tobin Q and Market –to-book-ratio is used and find that expected stock return are negatively correlated with firm level. Fama and Jensen (1983) suggest that the board has no important function of alleviating agency costs that arise from the separation of ownership and decision control in corporations. Short et el (1999) also take this view and argue that the board of directors is the central corporate governance control mechanism responsible for monitoring the activities of managers. Jensen (1993) describes the board of directors as the apex of the internal control system in an organisation. Therefore, the board of directors exists to protect the interests of shareholders from where it receives its authority for internal control from the stakeholders (Jensen, 1993).

Prior study explains that board size is an important aspect of effective corporate governance (Pearce and Zahra, 1992, Jensen, 1993, Yermack, 1996) and is related to firm performance (Haniffa and Hudaib, 2006). A larger board is more likely to have a greater range of expertise to monitor the actions of management effectively, which is required not only for enhancing the monitoring activities of managers (Monks and Minow, 1995). On the contrary, however, others (Lipton and Lorsch, 1992; Yermack, 1996) argue that a small board is more effective. They argue that large boards may be less cohesive and slow in making decisions., less candid in discussions of managerial performance and more difficult to coordinate (Lipton and Milliken, 1999). Jensen 1993 argues that large boards are less likely to function effectively and are easier for the CEO to control.

Empirically, the evidence on the importance of board size on firm performance is mixed. Holthausen and Larcker (1993) consider board size among other variables that are more likely to influence firm performance. They fail to detect consistent evidence of a relationship between board size and firm performance. Yermark (1986); Haniffa and Hudaib (2006) in their study by using Tobin's Q as a measure of firm performance find in inverse relationship, suggesting that small boards of directors are more effective. In their research study, they argue that whilst the market may percieve large boards as ineffective, they are beneficuially to the company as they provide the diversity of knowledge that is necessary for directing the operations of the company.

Fama and Jensen (1983); Shivdasani (1993) also suggest that NEDs are more unlikely to collude with executive directors to expropriate shareholder wealth. In addition, NEDs have incentives to develop reputations as experts in decision control and are concerned about maintaining their reputation because the external labour market prices them according to their performance as NEDs. Moreover, Haniffa and Hudaib (2006) says that, the presence of NEDs on board ensures that executive directors are not the sole evaluators of their performance and thus improving transparency. This literature suggests that a higher proportion on non executive directors on the board improves the ability of the board to monitor managerial performance. However, other literature Demb and Neubauer, 1992; Patto and Baker, 1987 argues that a higher proportion of NEDs may also be detrimental. They may stifle strategic actions, lead to excessive monitoring of managers, lack business knowledge to make them effective and lack real independence to influence the CEO

Lins (1996) shows that companies with a higher proportion of NEDs are more likely to participate in major restructuring events such as mergers, takeovers and tender offers. Weisbach (1998) documents that board with higher proportion of NEDs are more likely to remove poor performing CEOs. Rosenstein and Wyatt (1990) reveal an increase in shareholder wealth following the addition of NEDs to the board. Size and independence of the board cannot in themselves lead to its effectiveness in the monitoring role unless it is diligent or active. Board diligence is an important characteristics for its effectiveness (Kalbers and Fogarty 1993) suggest that the frequency of meetings can be a proxy of diligence. Vafeas (1999) study suggest that the frequency of board meetings is a proxy for the time directors spend monitoring managerial performance. Lipton and Lorsch (1992) suggest that board meeting time is an important resource in stirring the company to better performance. Thus boards that meet more frequently allow directors more time to confer , set strategy and to execute their monitoring role more effectively (Vafeas , 1999). Abbott et el (2003)suggest , when boards hold regular

meetings they are more likely to remain informed and knowledgeable about relevant performance of the company leading them to take or influence and direct the appropriate action to address the issue. The preceding discussion suggest that board that meet more frequently are more likely to perform better their roles of monitoring performance in accordance with shareholder's interests. Empirically, the evidence is inconclusive. Vafeas (1999) find that firms with boards that meet more frequently are valued less by the market as reflected in lower Tobin's Q ratioand suggests that the market may perceive more board meetings as expensive in terms of managerial time, travelling expenses and director's meeting fees. However Vafeas (1999) also find that boards meet more frequently after crises and thus improving the company's performance.

III. Objective of The Study

The relations between governance and performance of firms have been looked into with help of the following objectives:

- Examining the association between governance practices at firm level with their respective performance
- Identifying the cause and effect relationship between individual governance mechanism (Board process and structure, Ownership structure, Audit committee, Remuneration committee and grievance committee) and the firm performance.

For carrying out the above objectives, the corporate governance information relating to Board of directors, ownership structure, Audit committee, Remuneration committee and grievance committee and their financial statements are collected through secondary source. Different performance measures spread across three categories: operating performance, market value added and shareholder payout are used in the study. Operating performance would be measured through return on equity, profit margin and sales growth. To represent the market value added, the study used P/B ratio that are collected from the website of Bombay Stock exchange. P/B is in fact the single MVA measure considered by economics, finance and law researchers. Further the performance measures like EBITDA margin, ROE, Sales growth are collected from the PROWESS (CMIE) data base.

Dividend payout ratio is also considered in the study. Several theories have been put forward to explain the information that dividend pay-out might convey, most prominently the cash flow signaling and the free cash flow hypotheses. The free cash flow hypothesis asserts that the value of the firm should increase if over-investing managers pay out more of the cash flows as dividends. Positive abnormal returns in case of dividend increases and negative abnormal returns in case of dividend reductions are also expected according to the cash flow signaling hypothesis, however. Hence dividend pay-out ratio is used as a proxy for future expected performance of firms. The information on dividend payout ratios for different companies is gathered from the PROWESS (CMIE) data base.

BSE 200 companies representing different size across industries are to be considered for the study as more than that would have been difficult to manage for a clinical exploration. The companies chosen are listed in BSE irrespective of their boundaries confined to India or abroad. The study made an attempt to focus on five years data from 2006-2010 but due to non-availability of data of 5 years for all the companies finally the study could include only 163 companies from the BSE 200 list.

IV. Analysis & Interpretation

To investigate the relationship between facets of corporate governance and six different performance variables and to draw reliable conclusion, a multivariate regression framework is used. Table 1.1 through Table 1.5 reports our examination of the main effects of the explanatory variable (i.e. facets of corporate governance) on six different dependent variables (i.e. firms' performance measures).

Individual Governance components on P/B ratio – Impact and Analysis

Table 1.1 Impact of Individual Governance components on P/B ratio

Dependent Variable: PB				
Method: Panel Least Squ				
Sample: 2006 2010				
Cross-sections included:	163			
Total panel (balanced) o	bservations: 815			
Variable	Coefficient	Std. Error	t-Statistic	Prob.
С	9.380825	4.047772	2.317528	0.0207**
ВО	-0.76126	0.251743	-3.02395	0.0026*
OW	0.404607	0.136967	2.954039	0.0032*
AC	0.286133	0.257648	1.110558	0.2671
RC	0.121282	0.084634	1.433007	0.1522
CG	-0.21153	0.067649	-3.12695	0.0018*
R-squared	0.022646	Mean deper	5.443399	
Adjusted R-squared	0.016606	S.D. dependent var		9.370876
S.E. of regression	9.292744	Akaike info	criterion	7.30368

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Sum squared resid	69861.28	Schwarz criterion	7.338304
Log likelihood	-2970.25	Hannan-Quinn criter.	7.316969
F-statistic	3.749073	Durbin-Watson stat	1.055416
Prob(F-statistic)	0.002315		

^{*} and ** indicate significance at 1% and 5% level of confidence.

Table 1.1 reports the analysis of the impact of the five different constituents of corporate governance on Price to Book value ratio. It can be observed that the relationship between Price to Book and Board, Ownership and Governance committee are significant showing significant predictive power at 5% and 1% level of significance. A negative correlation between firm value and the size of a firm's board of directors supporting the previous studies by Yermack's (1996) who studied of Fortune 500 industrial firms, partly confirmed by Bhagat and Black (1996).

However, the model lacks predictive power with adjusted R-squares is 2.2%.

Individual Governance components on EBITA Margin – Impact and Analysis

Table 1.2 Impact of Individual Governance components on EBITA Margin

Dependent Variable: EM	radar Governa		S OII EDITIT	T SIII
Method: Panel Least Square	AC .			
Sample: 2006 2010	2.5			
Cross-sections included: 16	3			
Total panel (balanced) obse		1		
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	43.93216	12.20286	3,600154	0.0003*
ВО	1.807627	0.758933	2.381801	0.0175*
OW	-0.21683	0.412916	-0.52513	0.5996
AC	-2.21756	0.776735	-2.85497	0.0044*
RC	0.2993	0.255148	1.173043	0.2411
CG	0.056285	0.203941	0.275985	0.7826
R-squared	0.019163	Mean depend	lent var	37.59837
Adjusted R-squared	0.013101	S.D. depende	ent var	28.20026
S.E. of regression	28.01493	Akaike info	criterion	9.510687
Sum squared resid	634932.5	Schwarz criterion		9.545311
Log likelihood	-3869.61	Hannan-Quinn criter.		9.523976
F-statistic	3.161089	Durbin-Watson stat		0.057225
Prob(F-statistic)	0.007813			

^{*} and ** indicate significance at 1% and 5% level of confidence.

Table 1.2 presents analysis of the impact of five governance variables on firms' EBITA margin. Board and Remuneration Committee share a positive and significant predictive relationship with firms' EBITA margin. But audit committee negatively related to EBITA margin implying that more the no of audit activities, the EBITA margin will decline and vice-versa. Nevertheless, the model here again lacks predictive power as it has R-square value of 1.9%.

Individual Governance components on ROE – Impact and Analysis

 Table 1.3 Impact of Individual Governance components on ROE

Dependent Variable: RO	Е			
Method: Panel Least Squares				
Sample: 2006 2010				
Cross-sections included:	163			
Total panel (balanced) ob	servations: 815			
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	11.87639	8.934828	1.329224	0.1841
ВО	-0.82281	0.555684	-1.48072	0.1391
OW	0.979504	0.302334	3.239809	0.0012*
AC	1.372106	0.568719	2.412627	0.0161*
RC	0.305323	0.186817	1.634343	0.1026
CG	-0.26118	0.149324	-1.74911	0.0807
R-squared	0.024402	Mean depender	nt var	25.18676
Adjusted R-squared	0.018372	S.D. dependent	t var	20.70335
S.E. of regression	20.51229	Akaike info criterion		8.88726
Sum squared resid	340390.1	Schwarz criterion		8.921885
Log likelihood	-3615.56	Hannan-Quinn criter.		8.90055
F-statistic	4.046955	Durbin-Watson stat		0.47984
Prob(F-statistic)	0.001237			

^{*} and ** indicate significance at 1% and 5% level of confidence.

Table 1.3 reports explanatory power of the corporate governance variables of the Return on Equity. Both Audit committee and Ownership structure share a positive relationship with ROE at 1% level of significance. As both the variables are part of the monitoring mechanism of the agency theory of governance, the significance of the coefficients indicates that stronger monitoring will improve the return on equity and slack monitoring will result in lesser return on equity. But the model in explaining such relationship lacks predictive power as it has a R- squared value of 2.4%.

Individual Governance components on Sales Growth - Impact and Analysis

Table 1.4 Impact of Individual	Governance components on	Sales Growth
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Dependent Variable: SO			ponema on ,	T T T T T T T T T T T T T T T T T T T
Method: Panel Least So				
Sample: 2006 2010				
Cross-sections included	1: 163			
Total panel (balanced)	observations: 815	5		
Variable	Coefficient	Std. Error	t-Statistic	Prob.
С	74.63557	19.92573	3.745688	0.0002*
ВО	-3.77717	1.239242	-3.04797	0.0024*
OW	-0.15533	0.674241	-0.23038	0.8179
AC	-0.51935	1.268311	-0.40948	0.6823
RC	0.253054	0.416625	0.607392	0.5438
CG	-0.05825	0.33301	-0.17492	0.8612
R-squared	0.013265	Mean depender	nt var	26.53041
Adjusted R-squared	0.007167	S.D. dependent	t var	45.90966
S.E. of regression	45.74486	Akaike info cri	terion	10.49137
Sum squared resid	1692907	Schwarz criterion		10.526
Log likelihood	-4269.23	Hannan-Quinn criter.		10.50466
F-statistic	2.17514	Durbin-Watson stat		1.649108
Prob(F-statistic)	0.055			

^{*} and ** indicate significance at 1% and 5% level of confidence.

In Table 1.4, none other except Board as governance variable shares a significant predictive relationship with Sales growth as a measure of performance of the firms. Though the relationship is negative it is significant. It indicates that sales will decline due to bigger size of the Board, the reason being decision making process gets delayed larger board. Again here also the predictive power of the model is not significant as indicated by the smaller R-square value of 1.3%.

Individual Governance components on Dividend Payout Ratio Impact and Analysis

Table 1.5 Impact of Individual Governance components on Dividend Payout Ratio

Dependent Variable: D	P			
Method: Panel Least Squares				
Sample: 2006 2010				
Cross-sections included	l: 163			
Total panel (balanced)	observations: 815			
Variable	Coefficient	Std. Error	t-Statistic	Prob.
С	16.48814	8.561643	1.925815	0.0545*
BO	-0.77222	0.532475	-1.45025	0.1474
OW	0.022154	0.289706	0.076471	0.9391
AC	1.44101	0.544965	2.644226	0.0083*
RC	-0.12779	0.179014	-0.71385	0.4755
CG	-0.09942	0.143087	-0.69482	0.4874
R-squared	0.010415	Mean depend	lent var	24.93432
Adjusted R-squared	0.004299	S.D. depende	nt var	19.69793
S.E. of regression	19.65555	Akaike info	Akaike info criterion	
Sum squared resid	312549.5	Schwarz crite	Schwarz criterion	
Log likelihood	-3580.79	Hannan-Quin	Hannan-Quinn criter.	
F-statistic	1.702859	Durbin-Wats	on stat	0.743529
Prob(F-statistic)	0.131432			

^{*} and ** indicate significance at 1% and 5% level of confidence.

The Table-1.5 reports the impact of governance explanatory variables on Dividend Payout. Only Audit committee explains the dividend payout. That means frequent audit activities result in more dividend payout. But again the model lacks explanatory power with a R- squared value of 1%. We can conclude that the Ordinary Least Square model in the aforementioned multivariate regression analysis fails to carry significant predictive power. Further, it assumes that all the firm are homogenous even through the presence of heterogeneity is in cross sectional series.

Thus for appropriate model to be applied for the multivariate analysis, we have applied Hausman Test with the null hypothesis that the random effect is applicable and alternative hypothesis is application of fixed effect model. The results are reported in the Table 1.6 are per which we cannot reject the null hypothesis of the application of random effect model for our study of the impact of the different facets of governance on performance variables of the firm.

V. Application of Hausman Test & Its Results:

Table 1.6 Hausman Test Result

Hausman Test				
Dependent Variable	Chi-Sq. Statistic	DF.	Prob.	Model
P/B Ratio	1.140132	5	0.9505	Random Effect
EBITDA Margin	5.669088	5	0.3398	Random Effect
ROE	7.02094	5	0.2191	Random Effect
Sales Growth	0.612991	5	0.9874	Random Effect
Payout Ratio	2.326241	5	0.8024	Random Effect

The results of Panel data analysis are reported in Table 1.7 through Table 1.11.

Individual Governance Components - Panel Data Analysis

Table1.7 Impact of Individual Governance components on P/B Ratio – Panel Data Analysis

Dependent Variable: PB					
Method: Panel EGLS (Cros	s-section random et	fects)			
Sample: 2006 2010					
Cross-sections included: 16	i3				
Total panel (balanced) obse	ervations: 815				
Swamy and Arora estimato	r of component vari	ances			
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
С	9.515971	5.593683	1.701199	0.0893***	
BO	-0.63848	0.303149	-2.10616	0.0355**	
OW	0.374095	0.217301	1.721555	0.0855***	
AC	0.185547	0.359085	0.516722	0.6055	
RC	0.096045	0.127218	0.754963	0.4505	
CG	-0.18945	0.104378	-1.81503	0.0699***	
	Effects Specificat	tion			
			S.D.	Rho	
Cross-section random			5.923521	0.4005	
Idiosyncratic random			7.247871	0.5995	
	Weighted Statisti	cs			
R-squared	0.009479	Mean dependent va	ır	2.613002	
Adjusted R-squared	0.003357	S.D. dependent var		7.242726	
S.E. of regression	7.23056	Sum squared resid		42295.32	
F-statistic	1.548307	Durbin-Watson stat		1.739815	
Prob(F-statistic)	0.172418				
	Unweighted Stati	stics			
R-squared	0.022135		Mean dependent var		
Sum squared resid	69897.84	Durbin-Watson sta	t	1.052765	

^{*, **} and *** indicate significance at 1%, 5% and 10% level of confidence.

Table 1.7 reports impact of five corporate governance variables on Price to Book ratio. Board impacts negatively to Price to Book ratio which is significant at 5% level of confidence. On the other hand ownership and governance committee impacts positively to PB ratio which is significant at 10% confidence level. Further, PB is not explained by other governance factors like audit committee and remuneration committee.

Table 1.8 Impact of Individual Governance components on EBITDA Margin - Panel Data Analysis

Dependent Variable: I	EM			
Method: Panel EGLS	(Cross-section rar	ndom effects)		
Sample: 2006 2010				
Cross-sections include	ed: 163			
Total panel (balanced) observations: 81:	5		
Swamy and Arora estimator of component variances				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	29.9745	8.156984	3.674704	0.0003*
BO	0.302232	0.32218	0.938083	0.3485
OW	-0.34848	0.654025	-0.53282	0.5943
AC	0.068707	0.495183	0.138751	0.8897
RC	0.278271	0.2259	1.231832	0.2184
CG	0.188402	0.237972	0.791697	0.4288

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			S.D.	Rho
Cross-section random			27.74943	0.9561
Idiosyncratic random			5.947734	0.0439
	Weighted Statist	ics		
R-squared	0.004341	Mean dependent v	var	3.587529
Adjusted R-squared	-0.00181	S.D. dependent var		5.944809
S.E. of regression	5.950194	Sum squared resid		28642.49
F-statistic	0.705472	Durbin-Watson stat		1.195139
Prob(F-statistic)	0.619426			
	Unweighted Stat	istics		
R-squared	0.002868	Mean dependent v	var	37.59837
Sum squared resid	645480.7	Durbin-Watson st	at	0.053033

^{*, **} and *** indicate significance at 1%, 5% and 10% level of confidence.

As reported in Table 1.8, governance does not contribute EBITA margin of the firms. The reported results are not statistically significant.

Table 1.9 Impact of Individual Governance components on ROE – Panel Data Analysis

Dependent Variable: Ro					
Method: Panel EGLS (0	Cross-section ra	ndom effects)			
Sample: 2006 2010					
Cross-sections included	: 163				
Total panel (balanced)					
Swamy and Arora estin	nator of compor	ent variances			
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	37.31131	12.24875	3.046132	0.0024*	
ВО	-1.78081	0.609441	-2.92203	0.0036*	
OW	0.897127	0.535073	1.676645	0.094***	
AC	0.291251	0.787011	0.370072	0.7114	
RC	0.317166	0.295789	1.07227	0.2839	
CG	-0.25855	0.251119	-1.0296	0.3035	
	Effects Speci	fication			
			S.D.	Rho	
Cross-section random		16.07927		0.6061	
Idiosyncratic random		12.96307		0.3939	
	Weighted Sta	tistics			
R-squared	0.015116	Mean dependent v	ar	8.542624	
Adjusted R-squared	0.009029	S.D. dependent va		13.03824	
S.E. of regression	12.97925	Sum squared resid	1	136284.8	
F-statistic	2.483278	Durbin-Watson stat		1.191908	
Prob(F-statistic)	0.030356				
	Unweighted S	weighted Statistics			
R-squared	0.013967	Mean dependent var 25.1867			
Sum squared resid	344030.8	Durbin-Watson st	at	0.472164	

^{*, **} and *** indicate significance at 1%, 5% and 10% level of confidence.

Table 1.9 shows that Return on Equity is negatively affected by the Board which is statistically significant at 1% confidence level and positively impacted by the ownership structure of the firms. But since the R-squared value is only 1.5%, the model lacks explanatory power.

Table 1.10 Impact of Individual Governance components on Sales Growth – Panel Data Analysis

ouct of illustriana	1 Covernance co	inponents on b	ares crown	I direi Data I II	
Dependent Variable	e: SG				
Method: Panel EGI	LS (Cross-section rar	ndom effects)			
Sample: 2006 2010)				
Cross-sections incl	uded: 163				
Total panel (balanc	ed) observations: 81:	5			
Swamy and Arora	estimator of compone	ent variances			
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	77.28332	23.44246	3.296724	0.001*	
ВО	-3.99422	1.402494	-2.84794	0.0045*	
OW	-0.14213	0.821294	-0.17305	0.8627	
AC	-0.52116	1.496861	-0.34817	0.7278	
RC	0.248959	0.501364	0.496564	0.6196	
CG	-0.07836	0.402637	-0.19462	0.8457	
	Effects Specifi	Effects Specification			
			S.D.	Rho	
Cross-section random			16.0254	0.1217	
Idiosyncratic random			43.04946	0.8783	

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	Weighted Statistics			
R-squared	0.011339	Mean dependent var		20.3907
Adjusted R-squared	0.005229	S.D. dependent var		43.04526
S.E. of regression	42.93258	Sum squared resid		1491154
F-statistic	1.855685	Durbin-Watson stat		1.872138
Prob(F-statistic)	0.099767			
	Unweighted Stat			
R-squared	0.013224	Mean dependent var		26.53041
Sum squared resid	1692978	Durbin-Watson stat		1.648955

^{*, **} and *** indicate significance at 1%, 5% and 10% level of confidence.

None other governance factors except Board impacts sales growth of the firms as per the results reported in Table 1.10. The size of the Board is negatively related with sales growth that means when size of the Board increases, growth in sales declines and vice-versa.

Table 1.11 Impact of Individual Governance components on Payout Ratio – Panel Data Analysis

Dependent Variable: DP				
Method: Panel EGLS (Ca	oss-section rando	om effects)		
Sample: 2006 2010				
Cross-sections included:	163			
Total panel (balanced) ob				
Swamy and Arora estima	tor of component	variances		
Variable	Coefficient	Std. Error	t-Statistic	Prob.
С	10.93466	11.93802	0.915953	0.36
ВО	-1.07671	0.612882	-1.75679	0.0793***
OW	0.086318	0.49749	0.173507	0.8623
AC	2.039589	0.767168	2.658596	0.008*
RC	-0.01038	0.281771	-0.03683	0.9706
CG	-0.15183	0.235721	-0.6441	0.5197
			S.D.	Rho
Cross-section random	14.49112	0.5345		
Idiosyncratic random			13.52399	0.4655
•				
R-squared	0.011054	Mean dependent var		9.603846
Adjusted R-squared	0.004942	S.D. dependent var		13.53511
S.E. of regression	13.50162	Sum squared resid		147475.7
F-statistic	1.808473	Durbin-Watson stat		1.57482
Prob(F-statistic)	0.108712			
R-squared	0.008338	Mean dependent var		24.93432
Sum squared resid	313205.4	Durbin-Watson stat		0.741519

^{*, **} and *** indicate significance at 1%, 5% and 10% level of confidence.

In Table 1.11, it is observed that Dividend payout ratio is negatively related to size of the Board and positively related with the audit committee at statistical significance level of 10% and 1% respectively. More the activities of the audit committee, one can expect a better dividend payout ratio. However, increase in Board size results in lesser dividend payout ratio. Nevertheless, the model lack significant explanatory power as indicated by the R-squared value of 1.1%.

Impact of Individual Governance Components on Firm Performance

The study investigates the relationship between various facets of corporate governance and six different performance variables independently. In order to draw a reliable conclusion, a multivariate regression framework is used. The analysis of the impact of the five different constituents of corporate governance (Board Process and Structure, Ownership Structure, Audit committee, Remuneration Committee and Grievance Committee) on Price to Book value ratio exhibits that the Price to Book ratio is impacted by three governance facets like Board process and Structure, Ownership and Governance committee. A negative correlation between firm value and the size of a firm's board of directors supports the findings of many of the previous studies.

A subsequent analysis of the impact of five governance variables on firms' EBITA margin reveals that both Board structure and process and Remuneration Committee share a positive and significant predictive relationship with firms' EBITA margin while the audit committee negatively related to EBITA margin implying that more the no of audit activities, the EBITA margin will decline and vice-versa. Similarly an analysis of the impact of corporate governance variables of the Return on Equity highlights that both Audit committee and Ownership structure share an influencing relationship with ROE. As both the variables are part of the

monitoring mechanism of the agency theory of governance, the significance of the coefficients indicates that stronger monitoring will improve the return on equity and slack monitoring will result in lesser return on equity. A cursory look at the impact of individual governance facets portrays that none other than Board Process and Structure shares a significant predictive relationship with Sales growth as a measure of performance of the firms. Though the relationship is negative it is significant. It indicates that a higher growth in sales is hampered due to bigger size of the Board, more and more meetings etc. The possible reason may be the delay in decision making process that is prevalent in a larger board. In case of Dividend Payout ratio, it's only the Audit committee that explains the dividend payout signifying that a stringent audit activities result in more dividend payout.

The above results obtained through Ordinary Least Square model in the aforementioned multivariate regression analysis may have some limitation as the model assumes that the entire firm are homogenous even through the presence of heterogeneity is in cross sectional series. Thus a further verification through a panel data analysis is thought to be appropriate for the multivariate analysis. In order to specify the panel regression model, we have applied Hausman Test with the null hypothesis that the random effect is applicable and alternative hypothesis is application of fixed effect model. The result of Hausman Test favoured the application of random effect model for the study.

The panel result reports the impact of three out of five corporate governance variables on Price to Book ratio. While the Board Process and Structure impacts Price to Book ratio negatively, ownership structure and governance committee impacts the ratio positively. PB ratio is not explained by other governance factors like audit committee and remuneration committee. Interestingly none of the governance facets has a significant influence on the EBITA margin of the firms. Another measure of performance, Return on Equity is found to be negatively affected by the Board Process and Structure and positively impacted by the ownership structure of the firms. Consistent with the OLS result, the sales growths of the firms are not influenced by any governance variable other than Board Process and Structure. The size of the Board is negatively related with sales growth. The panel data analysis also reveals that Dividend payout ratio is negatively influenced by the Board Process and Structure and positively related with the audit committee. More the activities of the audit committee, one can expect a better dividend payout ratio. However, increase in Board size results in lesser dividend payout ratio.

VI. Conclusion

Summarizing the results of the analysis of individual impact of governance facets on performance variables under a random effect model, no facets of governance impacts the EBITDA margin. Further, Board structure impacts negatively to the performance in terms of P/B ratio, Return on Equity, Sales growth and Dividend payout ratio. It shows that though it is good to have more no of board meetings and attendance, but presence of independent directors and CEO duality impacts the performance negatively and significantly. However, positive performance in terms of P/B ratio, ROE, and dividend payout ratio contributed by ownership, grievance committee and audit committee.

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