Impact of Audit Committee structure on firms’ value in Pakistan: Evidence from the Cement Sector

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Abstract

The core tenacity of this study is to check out how the audit committee structure influence on firms’ financial value. With the help of literature, the study sets its main objective and uses penal data of 14 companies from cement sector which covers a period of 4 years from 2013 to 2016. The fixed effect approach is used to get the results of regression. The finding of the empirical outcomes is indicating that the Audit Committee structure has a substantial effect on firms’ financial value. The study used data from one sector and only from Pakistan, due to which the application of results in other sectors and the economy is not strong enough. According to superlative of our understanding, this type of research has conducted for the first time in Pakistan which contributes in the fiction of corporate governance as a showing effect of the audit committee structure on firms’ performance. This article provides helpful information to those who are affiliated with the management authorities when they design the structure of Audit committee, so they should make a good combination of audit committee elements for the better performance of the company.

Keywords: audit committee, AC structure, cement sector, Tobin’s Q, company performance
1. Introduction

The core tenacity of this research is to find out how the audit committee (AC) structure influence performance of the company. In prior studies, there is a lot of inquiries on AC and its structure is available, and their influence has been tested with company performance, the company reporting writing process, company disclosure etc. (Aldamen, Duncan, Kelly, McNamara, & Nagel, 2012). Audit committee is considered to be one of the keys and persuasive players in CG helps the director of the board in fulfilling their responsibilities by managing the company administration (Bédard & Gendron, 2010; Li, Mangena, & Pike, 2012).

An audit committee (AC) is a committee that looks at the various types of decisions and activities performed by corporate executives and management. Audit Committee (AC) works for shareholder's interest, by giving different independent reviews and objections on company executives and management decisions to reduce the frauds and agency conflict (Fama & Jensen, 1983; Klein, 1998). The researcher checks the impact of AC with three magnitudes: AC size, AC meeting frequency, and the percentage of the independent auditors in AC (Berkman & Zuta, 2017). And the financial performance of the companies is measured as Tobin’s Q (Agyemang-Mintah, 2015; Agyemang-Mintah & Schadewitz, 2018; Berkman & Zuta, 2017; Black, Jang, & Kim, 2006).

In the context of Pakistan, there are some studies existing related to AC and its structure, so it is the motivation factor for the researcher to donate in the literature of AC in the viewpoint of Pakistan. The first motivation for the researcher is to contribute to AC literature. Secondly, AC is the only committee which controls and make objections on corporate decision for the interest of shareholders. Third one is, the empirical research on cement sector in Pakistan that is very rare and erratic. So this research makes a valuable contribution to the cement sector as well as literature of AC in Pakistan.

The researcher completes his research work in the following remaining sections: the second section is related to the background literature and hypothesis development to support the research tenacity. Third section, is based on research methodology, testing of the hypothesis and measurement of the variables, also generate a regression model of study. Forth section is linked to the analysis of the regression and discussion about the descriptive results, empirical results, and the hypothesis. Fifth section is interconnected to the summary and conclusion of the research, also discuss the research limitations and provide some sanctions for assisting research.

2. Literature Review and Hypothesis Development

The place of AC under the main board of directors. The BOD has given the authority to AC to look into the company's reporting process (Bédard & Gendron, 2010; Li et al., 2012). The committee is such a device that eliminates the intervention of publishing the company's information (Akhtaruddin & Haron, 2010) and aids soften the agency costs in the company (Bédard & Gendron, 2010). All this indicate us that AC is a source of monitoring and
improving the company’s system (Akhtaruddin & Haron, 2010; Barako, Hancock, & Izan, 2006; Bédard & Gendron, 2010) including company reporting and publication process.

Studies in the past on audit committee show the effectiveness of AC is the function of its structure (Dhaliwal, Naiker, & Navissi, 2010; Li et al., 2012; Persons, 2009). Hence, the perfect mishmash of experience and skill helps AC to fulfill its responsibilities in the best way. So we can say there is a connection between AC structure and the firms’ value (Madi, Ishak, & Manaf, 2014).

So our tenacity is to know what the impact of AC’s structure on the firms’ value (Ferreira, 2008). To accomplish this objective, we studied various types of papers related to audit committee, its structure (i.e. AC’s size, AC’s meeting frequency, AC’s independence, etc.) and company’s performance.

There were various types of results after various studies, from a study it came to know that if AC’s size is smaller and members experience is high then it is positively associated with the company’s performances. And as well, if the chairman seat is too long in AC, it negatively associates with a company’s accounting performance (Aldamen et al., 2012). A study finds that AC with autonomous members is more efficient to prevent frauds in the company as compared to AC with internal members (Abbott, Park, & Parker, 2000). A study indicates that the AC’s size, independence, and the directorship of AC’s members at multiple boards is positively related to the company reporting process and performance. However, the meeting frequencies of AC and members experience is not significantly related to the firms’ value and the disclosure of reporting (Madi et al., 2014).

From a study, it also shows that there is a good system of AC, members’ forecasting is more update and more accurate which is likely to be according to the market response, so for the better performance the AC structure having valuable consideration (Karamanou & Vafeas, 2005). A study also states that an independent AC charge higher fee for high slandered of quality in the reporting process of the company (Carcello, Hermanson, Neal, & Riley, 2002). In a similar study, the researcher says positive association between the reporting process of the company and independent AC (Carcello & Neal, 2003; Felo, Krishnamurthy, & Solieri, 2003).

A study in Pakistan shows the positive relationship between ROE and AC in oil and gas sector (Arslan, Zaman, Malik, & Mehmood, 2014). Another study indicates the positive association between AC members and firms value companies listed in Pakistan stock exchange (Qaiser Rafique & Al Mamun, 2015) A study in Singapore argues that the members of the ACs, who are more autonomous, provide better and effective results (Van Der Zahn & Tower, 2004). A research indicates the AC which has more members and its members has different types of professional knowledge, provides better and effective outcomes (Choi, Jeon, & Park, 2004). The researcher perceived that the newly appointed 850 outside directors during 1993 and 2002 in AC having a progressive and significant influence on the firms’ value (DeFond, Hann, & Hu, 2005). By using a sample of companies from 2002 to 2004 after the COC released by the Chinese supervisory authority the researcher establish the positive effect of AC on a company’s financial performance (Zha, 2006). A research in Sub Saharan,
African countries argues that there is a progressive and noteworthy link between AC and firms’ value (Munisi & Randøy, 2013).

On the other hand, there is a lot of benefits with the help of AC can be achieved, some studies specify the manifestation of AC either having no effect or negatively associated with firms’ value. An Italian study indicates that the meeting frequency of insider ownership is adversely associated with the performance of the board while the outsider members are positively associated with the performance (Greco, 2011). An India-based research that compiled the data of 317 companies from 2008 to 2012, independent AC has an adverse influence on firms’ value (Khosa, 2017). Another research state the adverse link between AC size and the firms’ value (Bradbury, Mak, & Tan, 2006). A research on US industries shows the negative relationship between the AC board and the firms’ value (Yermack, 1996).

There are more or fewer revisions, which argue there is no noteworthy link between the firms’ value and AC. A research conduct by Rahman and Ali find no significant association in AC and earning management (Abdul Rahman & Haneem Mohamed Ali, 2006). The reason is that the directors did not pay their duty due to management intervention.

2.1 Hypothesis Development

After collecting various types of research evidence, the prediction of this study is that the AC structure can have any a progressive or adverse link with the company’s performance. Hereafter, the following hypothesis is developed for testing to get the study results:

\[ H_1: \text{There is a positive relationship between AC SIZE and company's performance} \]

\[ H_2: \text{There is a positive relationship between AC MF and company's performance} \]

\[ H_3: \text{There is a positive relationship between AC Ind.A and company's performance} \]

3. Research Methodology

3.1 Research Sample

This study uses the data of 14 Pakistani companies from the cement sector and covers a 4-year period from 2013 to 2016, data manually obtained from the annual publications of the companies. The decision to use the annual publications is trustworthy with previous research revisions. e.g., (Agyemang-Mintah, 2015; Botosan, 1997; Chenhall & Moers, 2007; Ho & Williams, 2003; Mangena & Chamisa, 2008; Ntim, 2013; Zagorchev & Gao, 2015).

The annual publications of 14 companies generate 56 observations, which are satisfactory to aid in the testing of hypostasis and added a significant input in AC literature. Due to time limitation, the researcher uses a small sample for the research process. But it does not mean that sample is insufficient, many other studies, a similar range of the sample, for example, a study in Nigeria used 25 company’s data for its research purpose (Aanu, Odianonsen, &
Foyeke, 2014). A researcher used only 36 annual reports for his research process (Firer & Meth, 1986), while this research used 56 annual reports. Another study related to use 20 annual reports for its research process on mining companies (April, Bosma, & Deglon, 2003). However, it does not indicate that for a significant research a small size of data is sufficient. The researcher suggests more significant results; the sample size should be increased. But this research has been done with small sample size due to time limitation.

3.2 Research Variables

This research uses three types of the variable for testing of hypothesis and obtains results to answer the research objective. The following three types of variables discussed in details below:

3.2.1 Dependent Variable

In this study, the firm’s value is a dependent variable which is measured by Tobin’s Q which is used to represent the financial valuation of the companies. In many prior studies, it has been used for the company's financial performances. E.g., (Agrawal & Knoeber, 1996; Beiner, Drobetz, Schmid, & Zimmermann, 2006; Black et al., 2006; Gompers, Ishii, & Metrick, 2003; Guest, 2009; Haniffa & Hudaib, 2006; Henry, 2008; Klapper & Love, 2004; Krause & Tse, 2016; Yermack, 1996). Tobin’s Q is calculated as total assets – MVE +BE / entire assets (Beiner et al., 2006; Chung & Pruitt, 1994).

3.2.2 Independent Variable

In this research 3 independent variable are used, jointly name is AC’s structure. The first one is AC Size, which is the sum of AC members. The second one is AC’s M.F, which is the frequency of the meeting held by AC in a year. And the third one is AC Ind.A., which is the ratio of independent members of the AC (Abbott et al., 2000; Aldamen et al., 2012; Berkman & Zuta, 2017).

3.2.3 Control Variables

To check the relationship between dependent and independent variables some control variables also introduce in the model in order to diminish the omitted bias of potential variables. So with the help of literature, these are the control variable, related to our model, added in this research regression. First one is GROWTH, companies which have more opportunities for investments they known as faster growing companies due to this their valuation and performance is better in the future. Growth is premeditated by the total sale growth ratio divided by total assets growth (Durnev & Kim, 2005; Klapper & Love, 2004). Second, one LEV., which is the capital structure because it has a great effect on the company’s profit. It is calculated as company total debts divide by total assets (Modigliani & Miller, 1963). The third one is FSIZE, which is calculated by the neutral log of company total assets (Waresul Karim, van Zijl, & Mollah, 2013). The fourth one is the BIG4, it is a dummy variable. A company audited by big four audit companies in Pakistan is getting 1, else 0 (Agyemang-Mintah & Schadewitz, 2018).

All independent, control and dependent variable define more clearly in “figure 1” in the
3.2.4 The Regression Model

With the help of literature review and measurement of variables, the researcher designs the following regression model to testing the hypothesis and answer the objectives of the revision:

\[
Tobin's \ Q_{i,t} = \alpha_0 + \sum_{i=1}^{n} \alpha_i \ AC.\ Structure_{i,t} + \sum_{j=1}^{n} \beta_j \ Controls_{i,t} + \varepsilon_{i,t}
\]

In the regression model, the performance of the companies measured with the help of Tobin’s Q, \( \alpha_0 \) is the constant, \( \alpha_i \) is the AC Structure, which is the sum of all independent variable including AC Size, AC. MF, AC %ind. \( A \) and \( \beta_j \) is the sum of all control variables including GROWTH, LEV (capital structure), C.SIZE (company size), and Big4 (big four auditing firms for external audit). The last is the error term for company \( i \) at time \( t \) in the model.

4. Analysis of Data

4.1 Descriptive Results

Table 1. Descriptive Statistics for All Variables

<table>
<thead>
<tr>
<th></th>
<th>Count</th>
<th>Minimum</th>
<th>Maximum</th>
<th>Mean</th>
<th>S.D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tobin's Q</td>
<td>56</td>
<td>1</td>
<td>3</td>
<td>1.39</td>
<td>.528</td>
</tr>
<tr>
<td>AC-Size</td>
<td>56</td>
<td>3</td>
<td>6</td>
<td>3.80</td>
<td>.923</td>
</tr>
<tr>
<td>AC-MF</td>
<td>56</td>
<td>4</td>
<td>7</td>
<td>4.41</td>
<td>.654</td>
</tr>
<tr>
<td>IND-A</td>
<td>56</td>
<td>0</td>
<td>100</td>
<td>34.68</td>
<td>23.718</td>
</tr>
<tr>
<td>Growth</td>
<td>56</td>
<td>-30</td>
<td>54</td>
<td>1.34</td>
<td>9.036</td>
</tr>
<tr>
<td>LEV</td>
<td>56</td>
<td>0</td>
<td>4</td>
<td>.32</td>
<td>.664</td>
</tr>
<tr>
<td>C-Size</td>
<td>56</td>
<td>22</td>
<td>25</td>
<td>23.34</td>
<td>.978</td>
</tr>
<tr>
<td>Big4</td>
<td>56</td>
<td>0</td>
<td>1</td>
<td>.77</td>
<td>.426</td>
</tr>
<tr>
<td>N</td>
<td>56</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 1 designates the full statistics description of all study variables which are used in the empirical test of the research study. The descriptive statistics indicates the variation of study variables, which defines the study normality and distribution of all the variables, many researchers include it in their research studies like (Beiner et al., 2006; Guest, 2009; Henry, 2008; Ntim, 2013). Descriptive statistics provide help to explain variable in that way, for example, the minimum value of Tobin’s Q is 1 and maximum is the 3 whereas mean is 1.39 and the standard deviation is the 0.528 which indicate the wide variation from mean to plus &
4.2 Multicollinearity Test

When all the independent variables are very much correlated with the dependent variable, a problem of multicollinearity are occurred (Klein, 1998; Waresul Karim et al., 2013). In this condition it creates instability in regression results, therefore there is a requisite to control it. In any pairs of two expounding variables the correlation should not be high then 0.80 (Hair, Black, Babin, Anderson, & Tatham, 1998). The researcher uses person correlation in the study for checking the multicollinearity and no high correlation is found. See table 2 which show the multicollinearity absence in the study (Agyemang-Mintah & Schadewitz, 2018; Hair et al., 1998; Waresul Karim et al., 2013). For example, AC size positive and significantly correlated with (Tobin’s Q) firms’ value (Agyemang-Mintah & Schadewitz, 2018).

Table 2. Person Correlation Matrix

<table>
<thead>
<tr>
<th>Correlation</th>
<th>TOBIN_S_Q</th>
<th>AC_MF</th>
<th>AC_SIZE</th>
<th>%IND_A</th>
<th>GROWTH</th>
<th>LEV</th>
<th>C_SIZE</th>
<th>BIG4</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOBIN_S_Q</td>
<td>1.000000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AC_MF</td>
<td>0.123313</td>
<td>1.000000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AC_SIZE</td>
<td>0.363619</td>
<td>0.045698</td>
<td>1.000000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>%IND_A</td>
<td>-0.064705</td>
<td>-0.196503</td>
<td>-0.169586</td>
<td>1.000000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GROWTH</td>
<td>-0.131186</td>
<td>-0.077849</td>
<td>-0.247393</td>
<td>-0.014403</td>
<td>1.000000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LEV</td>
<td>-0.191294</td>
<td>-0.139619</td>
<td>-0.026412</td>
<td>0.271268</td>
<td>0.047963</td>
<td>1.000000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C_SIZE</td>
<td>0.192861</td>
<td>0.304566</td>
<td>0.277144</td>
<td>-0.609616</td>
<td>-0.179242</td>
<td>-0.309143</td>
<td>1.000000</td>
<td></td>
</tr>
<tr>
<td>BIG4</td>
<td>0.437671</td>
<td>0.217778</td>
<td>0.251881</td>
<td>0.141290</td>
<td>-0.376839</td>
<td>-0.011193</td>
<td>0.122766</td>
<td>1.000000</td>
</tr>
</tbody>
</table>

4.3 Empirical Results

The main motivational tenacity of the revision is to check the effect of AC structure on a company’s financial performance. A different analysis is used by prior studies to check the effect of independent variables on dependent variables in term of simple LSL, multiple regression, fixed approach or random approach (Agyemang-Mintah & Schadewitz, 2018; Mousa & Saeed, 2017; Othman, Ishak, Arif, & Aris, 2014). On the basis of literature and according to data style the researcher first runs a houseman test to decide either regression analysis with the fixed approach is appropriate or with the random approach.

Housman test:

The researcher develops the hypothesis about the housemen test to decide which regression analysis model is best to check the effect:

\[ H_0: \text{Random effect model is appropriate} \]
The result of the housemen test indicates that we reject $H_0$. Because the probability value of housemen test is less the 5% or 0.05. Which mean that the Fixed effect model is appropriate for the regression analysis because $H_0$ is rejected and $H_A$ is accepted.

4.4 Regression Analysis with Fixed Effect Model Approach

On the basis of the houseman test, the fixed effect model is appropriate for the final discussion on the hypothesis. Table 3 shows the result of the fixed effect model there are 56 observations; the p-value is zero, which indicate the results are significant. The value of adjusted $R^2$ is 0.68, which indicate that the 68% change in Tobin’s Q due to the all autonomous and control variables as well as the value of adjusted $R^2$ shows that the model is good fit enough (SAJJAD, 2017). The DW value is near to 2 which indicate that there is no high issue of serial auto-correlation in the model (Chatfield, 1998; Durbin & Watson, 1951; Savin & White, 1977).

Table 3. Fixed Effect Model

<table>
<thead>
<tr>
<th>Variable</th>
<th>Coefficient</th>
<th>Std. Error</th>
<th>t-Statistic</th>
<th>Prob.</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>-10.69988</td>
<td>6.484801</td>
<td>-1.649993</td>
<td>0.1079</td>
</tr>
<tr>
<td>AC_MF</td>
<td>-0.225460</td>
<td>0.091478</td>
<td>-2.464648</td>
<td>0.0188</td>
</tr>
<tr>
<td>AC_SIZE</td>
<td>-0.020177</td>
<td>0.121985</td>
<td>-0.165403</td>
<td>0.0696</td>
</tr>
<tr>
<td>IND_A</td>
<td>0.002036</td>
<td>0.004481</td>
<td>0.454465</td>
<td>0.0423</td>
</tr>
<tr>
<td>GROWTH</td>
<td>0.009280</td>
<td>0.005291</td>
<td>1.754013</td>
<td>0.0882</td>
</tr>
<tr>
<td>LEV</td>
<td>-0.051894</td>
<td>0.085877</td>
<td>-0.604277</td>
<td>0.5496</td>
</tr>
<tr>
<td>C_SIZE</td>
<td>0.562013</td>
<td>0.270472</td>
<td>2.077896</td>
<td>0.0451</td>
</tr>
<tr>
<td>BIG4</td>
<td>-0.037249</td>
<td>0.183258</td>
<td>-0.203262</td>
<td>0.8401</td>
</tr>
</tbody>
</table>

EFFECTS SPECIFICATION

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Mean dependent var</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>$R^2$</td>
<td>0.796963</td>
<td></td>
<td>1.397697</td>
<td></td>
</tr>
<tr>
<td>Adj. $R^2$</td>
<td>0.680942</td>
<td>S.D. dependent var</td>
<td>0.525503</td>
<td></td>
</tr>
<tr>
<td>S.E. of regression</td>
<td>0.296832</td>
<td>Akaike info criterion</td>
<td>0.688692</td>
<td></td>
</tr>
<tr>
<td>Sum squared resid</td>
<td>3.083814</td>
<td>Schwarz criterion</td>
<td>1.448199</td>
<td></td>
</tr>
<tr>
<td>Log likelihood</td>
<td>1.716613</td>
<td>Hannan-Quinn criter.</td>
<td>0.983152</td>
<td></td>
</tr>
<tr>
<td>F-statistic</td>
<td>6.869123</td>
<td>Durbin-Watson stat</td>
<td>1.564464</td>
<td></td>
</tr>
<tr>
<td>P-value</td>
<td>0.000000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
4.5 Results of AC Structure

Table 3 shows the outcomes of analysis with the fixed effect approach, the AC structure consists of three variables which are AC_MF, AC_SIZE, and IND_A. The result of the fixed effect model designates that AC_MF is negative and statically significant with the Tobin’s Q as a proxy for a firms’ financial value. The result of this study about AC_MF is not matched with the result of (Sharma, Naiker, & Lee, 2009) however, the results are up to some limit agree with results of (Greco, 2011). AC_SIZE is negative and insignificant with Tobin’s Q (Abbott, Parker, & Peters, 2004; DeAngelo, 1981). However, the IND_A is having a positive and significant impact on Tobin’s Q (Bronson, Carcello, Hollingsworth, & Neal, 2009; DeZoort & Salterio, 2001). So there is a need for more research on that, how many meetings should be done in a year? How many independent members should be in an audit committee? This is the consideration for upcoming researchers and contributors.

4.6 The Result of the Control Variables

The four control variables are used in this study, the first one is GROWTH which shows the positive effect on Tobin’s Q at the level of 5% it is insignificant but at the level of 10%, it is statistically significant (Agyemang-Mintah & Schadewitz, 2018; Sharma et al., 2009). The capital structure (LEV) is negative and insignificant with the company’s performance. Company size (C_SIZE) is positive and significant with Tobin’s Q as a proxy of the financial performance of the companies at a level of 5% (Agyemang-Mintah & Schadewitz, 2018; Mousa & Saeed, 2017). Last, the dummy variable BIG4 is insignificant with the firms’ performance.

4.7 Discussion on the Hypothesis

The first hypothesis H\textsubscript{1} of study is rejected because it has significantly negative effect on firms’ value. The second hypothesis of the study H\textsubscript{2} also rejected because there is negative and insignificant link between AC_MF and firms’ value (Madi et al., 2014). The third hypothesis of the study H\textsubscript{3} is accepted because there is a positive and significant affiliation between AC\_%ind.A and firms’ value (Madi et al., 2014).

5. Summary and Conclusions

The tenacity of this study is to scrutinize the impact of AC structure on the financial performance of the companies. For this purpose, the researcher collected manual information from the yearly publications of 14 Pakistani cement companies. By using SPSS and EVIEWS the researcher runs different types of the analysis to get the results of the data which was collected from the annual publications of the companies. The empirical results of study reject the hypothesis H\textsubscript{1} & H\textsubscript{2} and the third one is accepted H\textsubscript{3}.

This revision donates to the surviving collected works of the corporate governance (CG) in that this way: the AC structure which exists on AC_SIZE, AC_MF and AC\_%ind.A. Auditors, how it affects the company's performances. Because the audit committee is the best sentient out of corporate governance, therefore the structure of AC is valuable to enhance or reduce
the performance of the AC. So the results indicate that the AC_SIZE and AC_MF have a negative impact on a company’s financial performance, while the %ind. Auditors are positive relationships with Tobin’s Q as a proxy for the financial performance of the companies.

For the professionals and policymakers the study state that the appropriate structure of AC is a key factor for success, therefore at the time of AC design, the elements of the AC structure should be considered, how it stimulus the company’s performance. The best combination of the AC structure will play a vital role in increasing the company’s performance. We can take help from various types of studies and further research on AC and its structure for the best mishmash of AC elements (Klein, 1998; Xie, Davidson III, & DaDalt, 2003).

This study faces different limitations: the first one is data size is small which produce only 56 observations because time was too short, the second one is data from Pakistani companies and from only one sector so the result may be not widely acceptable on other economy or other sectors. Last but not the least is, the data is manually calculated from annual publications so the chances of error are also prevailing. The researcher suggests some future keys: increase data size, implementation of other sectors and economies. Add new elements in AC structure like Multiple directorships of the members of AC, and financial experience of the members.

Acknowledgment

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References


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Appendix

Simple regression model:

\[
Tobin^'s Q_{i,t} = \alpha_0 + \alpha_1 AC.Size_{i,t} + \alpha_2 AC.MF_{i,t} + \alpha_3 AC.\% ind.A_{i,t} + \beta_1 Growth_{i,t} + \beta_2 Lev_{i,t} + \beta_3 C. Size_{i,t} + \beta_4 Big4_{i,t} + \epsilon_{i,t}
\]

Table 1: Summary of variables and explanation.

<table>
<thead>
<tr>
<th>Dependent variables:</th>
<th>Tobin’s Q</th>
<th>Tobin’s Q is premeditated as the book value of total assets plus equity market value minus equity book value divide by assets total value. (Beiner et al., 2006; Chung &amp; Pruitt, 1994)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Independent variables:</td>
<td>AC SIZE</td>
<td>AC size is the sum of all members of the audit committee. (Berkman &amp; Zuta, 2017; Madi et al., 2014)</td>
</tr>
<tr>
<td></td>
<td>AC. MF</td>
<td>AC meeting frequency is the sum of all meeting held by audit committee during the year. (Berkman &amp; Zuta, 2017; Madi et al., 2014)</td>
</tr>
<tr>
<td></td>
<td>AC % ind. A</td>
<td>Percentage of independent auditors in the audit committee. (Berkman &amp; Zuta, 2017)</td>
</tr>
<tr>
<td>Control variables:</td>
<td>Growth</td>
<td>Growth is calculated as sale growth ratio divide by assets growth ratio. Which companies have higher opportunities for investment growing much faster, with growing much faster that’s companies receive better performance and high valuation (Durnev &amp; Kim, 2005; Klapper &amp; Love, 2004).</td>
</tr>
<tr>
<td></td>
<td>LEV</td>
<td>LEV used for a capital structure which is calculated as % of total debts divide by % of total assets. The capital structure may have an effect on companies success (Modigliani &amp; Miller, 1963).</td>
</tr>
<tr>
<td></td>
<td>C. Size</td>
<td>Company size is the natural log of the total assets. In large companies, there is a bigger volume of the transaction under audit committee (Waresul Karim et al., 2013).</td>
</tr>
<tr>
<td></td>
<td>Big4</td>
<td>Big four is the dummy variable: a company audit by big four audit companies including A.F Ferguson &amp; Co., KPMG, Ernst &amp;Young, and Deloitte touch. Assign 1 and if not then 0.</td>
</tr>
</tbody>
</table>

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