“The influence of corporate governance characteristics on profitability of Indian firms: An empirical investigation of firms listed on Bombay Stock Exchange”

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Eissa A. Al-Homaidi, Ebrahim Mohammed Al-Matari, Mosab I. Tabash, Amgad S.D. Khaled and Nabil Ahmed M. Senan (2021). The influence of corporate governance characteristics on profitability of Indian firms: An empirical investigation of firms listed on Bombay Stock Exchange. Investment Management and Financial Innovations, 18(1), 114-125. doi:10.21511/imfi.18(1).2021.10

http://dx.doi.org/10.21511/imfi.18(1).2021.10

Friday, 05 February 2021
Saturday, 14 November 2020
Monday, 25 January 2021

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“Investment Management and Financial Innovations”

1810-4967
1812-9358

LLC “Consulting Publishing Company “Business Perspectives”

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Abstract

This article aims to empirically examine corporate governance features and their association with Indian listed companies’ profitability. Thirty-three listed firms are selected from the top 100 companies in India. Corporate governance is defined by two parts: board of directors (size, structure, diligence) and audit committee (size, structure, diligence). In contrast, the profitability of Indian listed firms is calculated by two indicators: return on assets (ROA) and earnings per share (EPS). The outcomes concerning ROA reveal that board diligence, size of audit committee, audit committee composition, diligence of audit committee, and size of a company have a significant relationship with ROA. In contrast, board size and board composition have an insignificant association with ROA. Concerning earnings per share (EPS) model, the results show that size of audit committee, audit committee composition, diligence of audit committee, and firm size have a significant relationship with EPS. In contrast, board size, board composition, and board diligence have an insignificant association with EPS. The results may be of benefit to those scholarly researchers, practitioners, and governors who are interested in exploring the quality of corporate governance practices in an emerging market such as India and its effect on firms’ profitability.

Keywords

- corporate governance
- firms’ profitability
- ROA
- EPS
- panel data
- India

JEL Classification

- C23
- L25
- G34
- G32

INTRODUCTION

The main motivation of this study is to empirically investigate the association between corporate governance features and companies’ profitability in a developing country, India. Specifically, this study checks the effect of corporate governance characteristics on firms’ profitability (ROA and EPS) by Indian listed firms. The study strives to contribute to the discussion on whether excellent corporate governance can be seen as a prerequisite for a good firm (Haat et al., 2008) by reducing earnings management. Over the past two centuries, corporate governance is becoming a hot issue primarily created by corporate rumors and scams like Enron and WorldCom that have shaken both the corporate atmosphere and the confidence of investors. These reporting frauds are connected to poor accounts financial regulation (Berkman et al., 2009). There is a need to induce such norms that can minimize the scope of these scams. There is continuing discussion about whether excellent corporate governance leads to better company results. In this context, Black, Jang, and Kim (2006) reported that “high-governance companies have a high market value. In anticipation of improvement...
in companies’ performance, the stock price could also react instantly to news suggesting better corporate governance. Companies with weak governance structures face more agency problems. Those companies’ executives get more personal advantages due to weak governance structures” (Core, Holthausen, & Larcker, 1999). There is no “unambiguous proof to suggest that better corporate governance increases firm profitability” (Klein et al., 2005). As a result, “investors are still skeptical about the presence of the link between good governance and profitability indices. For many professionals and scholars in the field of corporate governance, this remains their quest for the Holy Grail, the quest for the link between yields and governance” (Bradley, 2004).

Corporate Governance (CG) in India was originally controlled by the firms’ Act of 1956, but recently the Indian Securities Exchange Board (SEBI) has awarded the 2013 Companies Act and Clause 49 of the stock exchange listing as the main sources of Indian CG laws (Larson & Pierce, 2015). Both laws have a huge effect on regulating CG issues in India (Agarwal, 2013; Jha & Mehra, 2015; PwC, 2013; Sangwan, 2015). The amended clause 49 involves “(11) clauses on (1) shareholder rights, (2) board of directors (BOD), (3) audit committee, (4) appointment and remuneration committee, (5) subsidiary firms, (6) risk management, (7) associated party transaction, (8) disclosure, (9) CEO/CFO certification, (10) corporate governance report, (11) compliance report”. Additionally, it has 4 annexes dedicated to “(1) data to be put before BOD, (2) quarterly compliance report format on CG, (3) proposed list of things to be included in the company’s annual CG report, and (4) non-compulsory regulations. Regarding CG regulations on board size, structure, diligence, audit committee size, composition Clause 49 has distinct criteria for diligence”.

Good corporate governance is a move that enables modus operandi to be developed and adhered to, resulting in corporate responsibility, structured ethical practices, and organizational accountability that heralds the handling of sufficient resources. The fact that CG is directly linked to a company’s performance is not overemphasized. This realization has led to a range of empirical research into the relationship between corporate governance in ensuring enhanced organizational efficiency.

This investigation aims to seek the correlation between enterprise governance characteristics and profitability of 33 Indian listed companies during four years from 2011 to 2014. The study achieves the main aim by two sub-objectives: first, to evaluate the influence of board of directors’ effectiveness on profitability of Indian listed firms, second, to test the influence of audit committee effectiveness on profitability of Indian listed companies during the period of the study. However, it explores the influence of two corporate governance features as board of directors (size, structure, and diligence) and audit committee (size, structure, and diligence). This investigation is classified into two regression models from prior studies; ROA and EPS are indicators for measuring the profitability of Indian listed companies.

1. LITERATURE REVIEW

Many types of research used different indicators for examining firms’ profitability, e.g., AL-Omar and AL-Mutairi (2015), Darayseh and Chazi (2018), Menicucci and Paolucci (2016), Mokni and Rachdi (2014), Zheng, Sarker, and Nahar (2018), Al-Homaidi et al. (2018), Almaqtari et al. (2018), and Al-Homaidi et al. (2019) applied ROA as a first indicator. In contrast, Waleed, Pasha, and Akhtar (2016) utilized EPS as a second indicator for testing firms’ profitability in different countries. Said, Zainuddin, and Haron (2009) demonstrated that only two factors were related to the scope of disclosure, explicitly public property ownership and audit working group. Group of the register of government management and audit is favorably and suggestively link with the rate of disclosure of corporate social obligation. Uchida, Ahmed, and Aabed (2011) indicated that governance has a beneficial but non-material connection with strong execution (return on assets). However, Cheema and Din (2013) revealed a beneficial connection between enterprise governance and company exe-
ution had been identified. Adekunle and Maurice (2014) found a favorable and important connection between the structure of the board member and size of the board as autonomous factors and strong execution. The CEO position also has a beneficial connection with the firm’s execution, but it is unimportant at $p < 0.05$. Nevertheless, attention to ownership has a poor relationship with ROA but a beneficial connection with a profit margin (PM). The associations are not important at 5%.

Dabor et al. (2015) examined the effect of enterprise governance features on profitability of the textile industry in Pakistan. The facts are set from the annual reports of the specific textile industry from 2005 to 2014. The report’s after-effects explain that enterprise governance and profitability demonstrate a beneficial connection with each other. This means that in the textile area. Shahwan (2015) stated a beneficial connection between CG practices and profitability. Haque and Arun (2016) recorded a favorable connection between the corporate governance quality of a firm and its valuation, although the relationship between corporate governance at the enterprise level and operational execution seems dubious. Herdijono and Sari (2017) reported that board of directors’ size has a favorable profitability result, while “the size of the audit committee, institutional proprietorship, and managerial proprietorship has no result on the profitability”. According to Dzingai and Fakoya (2017), “outcomes designate a weak negative relationship between return on equity and board size and a weak but positive correlation between return on equity and board independence”. Furthermore, there is a favorable but low association between equity returns and sales development, but an unfavorable and low connection between equity returns and company size. In contrast, Kapoor and Goel (2017) revealed that profitability is a significant variable, “as it moderates the connection between audit committee independence and the management of income”. Managers of a profit-making business would have little need to change their income. Further, Arora (2012) suggested that enterprise governance has an important effect on company profitability. Mohan and Chandramohan (2018) indicated that the CG factor is the duality of the managing director and team composition, which had a substantial adverse effect on firms’ profitability, whereas board structure disclosed no important effect on firms’ profitability.

However, G.C (2016) demonstrated the size of the team, promoter control, and leverage a negative correlation with profitability. Kumar (2016) revealed a favorable connection for both factors. Similarly, Ahmad and Al-Homaidi (2018) revealed that the “audit group size and board size” had the largest disclosed proxies, whereas public ownership was the smallest exposure indicator for tourism companies. Jackling and Johl (2009) suggested that bigger board sizes have a beneficial influence on profitability, thus bolstering the opinion that increased display to the outside setting increases evaluate to multiple resources and has a favorable impact on profitability. Consistently, Raithatha and Bapat (2014) found that the average disclosure score was discovered to be 73%, max and min are 100% and 46%, respectively. The results “support agency theory in terms of tracking board function since board size is discovered to be important, but the research does not find any impact of board independence on disclosure”. However, Ghosh (2006) revealed that, after managing various company-specific variables, larger boards tend to be dampened the effect on company profitability. Appendix A. presents summary of previous studies examined in different sectors in India.

Accordingly, this article aims to examine the impact of corporate governance mechanisms on firms’ profitability of Indian listed firms. The research achieves the main objective by two sub-objectives:

1. To assess the impact of the effectiveness of the board of directors on the profitability of Indian listed companies;

2. To measure the impact of the effectiveness of the audit committee on the profitability of Indian listed companies during the study period.

This article bridges a divide in corporate governance and literature on profitability in India. Besides, the present research extends and contributes to previous research from different countries as it incorporates panel data from 33 Indian listed companies from 2011 to 2014 and uses various corporate governance factors comprehensively.
2. METHODOLOGY

2.1. Sample selection and model specification

The data of the current study are collected from 33 Indian listed companies for a period of four years from 2011 to 2014 based on the following criteria: firstly, accessibility and availability of data for the period of research; secondly, non-financial firms; thirdly, there is a lack of studies that examined corporate governance and profitability from 2011 to 2015 in India. This investigation is based on secondary information collected from the published annual reports of Indian listed firms. This paper examines two elements of the features of “corporate governance: the board of directors (size, independence, and diligence) and the audit committee (size, independence, and diligence)”. Firms’ profitability is measured by two indicators (ROA and EPS).

Multiple regression was applied to identify the effect of corporate governance features on Indian listed firms’ profitability. The review suggests the following model to check the business governance influence on the profitability of businesses defined by ROA and EPS:

\[
\text{Profitability}_i = \alpha_0 + \alpha_1 \text{BSIZE}_i + \\
+ \alpha_2 \text{BCOMP}_i + \alpha_3 \text{BDEL}_i + \\
+ \alpha_4 \text{ACSIZE}_i + \alpha_5 \text{ACCOMP}_i + \\
+ \alpha_6 \text{ACDEL}_i + \alpha_7 \text{FSIZE}_i + \varepsilon_i. 
\]

(1)

\[
\text{ROA}_i = \alpha_0 + \alpha_1 \text{BSIZE}_i + \\
+ \alpha_2 \text{BCOMP}_i + \alpha_3 \text{BDEL}_i + \\
+ \alpha_4 \text{ACSIZE}_i + \alpha_5 \text{ACCOMP}_i + \\
+ \alpha_6 \text{ACDEL}_i + \alpha_7 \text{FSIZE}_i + \varepsilon_i. 
\]

(2)

\[
\text{EPS}_i = \alpha_0 + \alpha_1 \text{BSIZE}_i + \\
+ \alpha_2 \text{BCOMP}_i + \alpha_3 \text{BDEL}_i + \\
+ \alpha_4 \text{ACSIZE}_i + \alpha_5 \text{ACCOMP}_i + \\
+ \alpha_6 \text{ACDEL}_i + \alpha_7 \text{FSIZE}_i + \varepsilon_i. 
\]

(3)

where Profitability = ROA and EPS; \( i \) relates to an individual firm; \( t \) relates to year; \( \alpha_1 : \alpha_8 \) are the determining coefficients of factors and \( \varepsilon \) is term of mistake, and all other indicators as described in Table 1 and presented in Figure 1.

2.2. Measurement of dependent variable

Return on assets (ROA) is a ratio assessed by (“profit after tax to total assets”) as a first indicator for measuring the firms’ profitability used in previous investigations, e.g., Al-Homaidi et al. (2019), Menicucci et al. (2016), Zheng et al. (2018)loans, equity, deposits, economic growth, inflation and market capitalization on major profitability indicators i.e., return on asset (ROA, Al-Homaidi et al. (2019), Tabash et al. (2020), Al-Homaidi et al. (2020), adopted ROA as a first indicator for evaluating the profitability of firms.

![Figure 1. Study framework for all indicators](http://dx.doi.org/10.21511/imfi.18(1).2021.10)
Earnings per share (EPS) is a ratio that can be measured by net profit after tax to numbers of equity shareholders as a second indicator for measuring firms’ performance, (e.g., Abbas et al. 2014, Al-Homaidi et al. 2020, Al-Homaidi et al. 2019,Waleed, Pasha, and Akhtar 2016).

2.3. Measurement of independent variables

Corporate governance features measured by two parts, board of directors (size, independence, and diligence) and audit committee (size, independence, and diligence), were taken as important determinants of corporate governance. Table 1 summarizes the measurements of variables.

### 3. RESULTS

3.1. Descriptive analysis

Table 2 provides the outcomes of descriptive analysis for the research factors. The results show a mean, median, maximum, minimum, and Std. Dev. values of the variables. The average values of ROA and EPS are 10.126 and 42.424 and Std. Dev. values are 6.709 and 41.955, respectively, whereas the maximum value is 27.430 and 242.300, and the minimum value is –0.710 and –1.460, respectively. The BODSIZE, indicates the minimum value is 0.000 members of the board against the value is 25.000 as a maximum member in the board, with an average of 11.206, the median value is 11.000, and Std. Dev. of 2.870. The BODCOMP shows that the maximum value is 0.778 against value is –0.690 as a minimum value with an average value is 0.513, the median value is 0.500, and Std. Dev. value is 0.146. The BODDIL shows the minimum value is –0.690 against value is 3.333 as a maximum value with an average value is 0.331, the median value is 0.159, and Std. Dev. value is 0.467. The average value of ACSIZE, ACCOMP, and ACDELIG are 4.739, 0.741, and 0.164, while minimum values are 3.000, 0.500, and 0.067 against value is 6.000, 1.000, and 0.317 as a maximum value with an average value are 4.739, 0.741, and 0.164, median values are 5.000, 0.750, and 0.146, and Std. Dev. values are 0.903, 0.158, and 0.063, respectively. The FIRMSIZE reveals the minimum value is 7.209 against value is 12.237 as a maximum value with a mean value is 9.393, the median value is 9.306, and Std. Dev. value is 1.169.
3.2. Correlation matrix and diagnostics of multicollinearity

Table 3 reveals correlation assessment and multicollinearity diagnostics for current study factors. The results regarding ROA indicate that BODSIZE, ACSIZE, ACDELIG, and FIRMSIZE have a negative relationship with ROA, while BODCOMP, BODDEL, and ACCOMP have a positive correlation with companies’ profitability calculated by ROA. Concerning EPS, the study reveals that BODSIZE, BODDEL, ACSIZE, ACDELIG, and FIRMSIZE positively correlate with company profitability assessed by EPS, while BODCOMP and ACCOMP have a negative association with profitability of Indian firms evaluated by EPS.

This research applied Variance Inflation Factor (VIF) test to check the multicollinearity problem. The results show no multicollinearity problem among the autonomous variables. All VIF values are below 5, which indicates that “multicollinearity problem among the independent variables is not present in this research” (see Table 3, panel B).

3.3. Regression analysis

Table 4 provides the outcomes of various regressions between independent and dependent factors. The adjusted $R^2$-squared model of pooled effects is 91 percent concerning ROA. This stated that independent proxies participate in about 91% of the ROA variation. The outcomes revealed that ACSIZE and FIRMSIZE significantly affect firms’ performance at a 1% level, while BODDIL, ACCOMP, and ACDELIG have a significant influence on companies’ profitability at the level of 10%. BODSIZE and BODCOMP have an insignificant impact on firms’ profitability calculated by ROA. The outcomes also suggest that BODSIZE, BODDEL, ACSIZE, and ACCOMP negatively associate with companies’ profitability, while BODCOMP, ACDELIG, and FIRMSIZE have a positive impact on companies’ profitability (ROA).

Concerning EPS, the adjusted $R^2$-squared of the random-effects model is 10%. This indicated that independent factors lead to about 10% of the EPS variation. The results reveal that ACSIZE, ACCOMP,
ACDELIG, and FIRMSIZE significantly associate with firms’ performance defined by EPS, whereas BODSIZE, BODCOMP, and BODDIL have an insignificant association with the profitability of companies measured by EPS. The outcomes also show that BODSIZE, BODCOMP, ACDELIG, and FIRMSIZE positively connect with companies’ profitability, while BODDIL, ACSIZE, ACCOMP have a negative relationship with companies’ profitability calculated by EPS. This impact is not strengthened by Cheema and Din (2013) who stated that size of board has an insignificant influence on strong profitability (EPS).

Hausman test has been used to determine the correct method of analysis (fixed- or random-effects models). Regarding the ROA model, the Hausman test outcomes showed that since the \( p \)-value is less than 5% (\( p \)-value < 0.05), and the fixed-effects model is better than the random-effects model. In the case of the EPS experiment, however, the Hausman test results showed that the random-effects model experiment is more appropriate than the fixed-effects model because the \( p \)-value is more than 5% (\( p \)-value > 0.05).

**CONCLUSION**

This article explores the association between corporate governance features and profitability of Indian listed companies. This investigation is based on secondary information collected from the published annual reports of Indian listed firms. Concerning ROA, the outcomes show that board’s diligence, size of the audit committee, structure of the audit committee, audit committee’s diligence, and size of the company have an important relationship with ROA. In contrast, the size of the board and the composition of the board have an insignificant association with return on assets (ROA). Concerning the EPS model, the results show that the size of the audit committee, the structure of the audit committee, the diligence of the audit committee, and the size of the company have an important relationship with EPS. In contrast, the size of the board, the composition of the board, and the diligence of the board have an insignificant relationship with EPS. This investigation expands current literature, particularly in the Indian context, by examining companies’ profitability concerning corporate governance characteristics adopted.

**AUTHOR CONTRIBUTIONS**

Conceptualization: Ebrahim Mohammed Al-Matari.
Data curation: Ebrahim Mohammed Al-Matari, Amgad S.D. Khaled.

Table 4. Regression analysis

| Variable | ROA | EPS |
|----------|-----|-----|
|          | C   | BODSIZE | BODCOMP | BODDIL | D(ACSIZE) | ACCOMP | ACDELIG | FIRMSIZE | R-squared | Adjusted R-squared | Durbin-Watson stat | F-statistic | Prob(F-statistic) | Hausman test |
|          | Coeff. | Std. Error | t | Prob. | Coeff. | Std. Error | t | Prob. | Coeff. | Std. Error | t | Prob. | Coeff. | Std. Error | t | Prob. |
|----------|------|--------|-----|-------|-------|--------|-----|-------|-------|--------|-----|-------|--------|--------|-----|-------|
| C       | 0.672 | 0.416  | 1.617 | 0.109 | 0.560  | 0.526  | 1.065 | 0.289 |
| BODSIZE | –0.152 | 0.196 | –0.773 | 0.441 | 0.092  | 0.119  | 0.777 | 0.439 |
| BODCOMP | 0.176  | 0.192  | 0.917 | 0.361 | 0.092  | 0.110  | 0.835 | 0.405 |
| BODDIL  | –0.032 | 0.018  | –1.784 | 0.077**| –0.019 | 0.057  | –0.340 | 0.735 |
| D(ACSIZE) | –0.484 | 0.136 | –3.551 | 0.001***| –0.029 | 0.015  | –1.938 | 0.055**|
| ACCOMP  | –0.358 | 0.136 | –1.853 | 0.066* | –0.364 | 0.173  | –2.107 | 0.037**|
| ACDELIG | 0.152  | 0.083  | 1.844 | 0.068* | 0.858  | 0.311  | 2.755 | 0.007***|
| FIRMSIZE | 0.795 | 0.335 | 2.376 | 0.019***| 0.854  | 0.436  | 1.958 | 0.053**|
Formal analysis: Ebrahim Mohammed Al-Matari, Amgad S.D. Khaled.
Funding acquisition: Eissa A. Al-Homaidi, Amgad S.D. Khaled.
Methodology: Eissa A. Al-Homaidi, Amgad S.D. Khaled, Nabil Ahmed M. Senan.
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Supervision: Ebrahim Mohammed Al-Matari, Mosab I. Tabash.
Validation: Mosab I. Tabash.
Writing – original draft: Eissa A. Al-Homaidi.
Writing – review & editing: Eissa A. Al-Homaidi, Nabil Ahmed M. Senan.

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### APPENDIX A

#### Table 1A. Some of prior studies in India

| No. | Author | Objective | Variables | Sample |
|-----|--------|-----------|-----------|--------|
| 1   | Dwivedi and Jain (2005) | To study the relationship between corporate governance and firm performance of Indian companies | Tobin’s Q, the board size, advertising intensity, R&D intensity, gross fixed assets, current year ROCE, previous year ROCE, debt-equity ratio, foreign shareholding, financial institution shareholding, directors’ shareholding, public shareholding, and trading activity | 367 firms, 1997–2001, Secondary, Descriptive regression |
| 2   | Ghosh (2006) | To examine the association between profitability and boards of non-financial firms | Return on assets, PERF, logarithm of size of board of directors, logarithm of total assets netted for depreciation, cash flows, age of the firm, leverage, percentage share price change, dummy variable indicating uncertainty in the economic environment, and dummy variable which assumes value 1 if a firm belongs to the private sector, else zero; IND1 if a firm belongs to industry | 127 listed firms, 2003, Secondary, Regression |
| 3   | Jackling and Johl (2009) | To investigate the relationship between internal governance structures and profitability of Indian companies | Return on assets, return on assets, Tobin’s Q, number of outside directors, outside directors, CEO chair, promoter CEO, CEO only employee, powerful CEO, busyness – all directors, busyness – outside directors, board size, board meetings, total assets, log of total assets, leverage, capital expenditure to sales, research and development, and firm age | Top listed firms, 2004–2006, Secondary, Descriptive correlation Regression |
| 4   | Arora (2012) | To examine the impact of corporate governance on firm performance for Indian firms for the period 2001–2010 | Return on assets, adjusted Tobin’s Q, board size, proportion of outside directors, board activity intensity, institutional ownership, CEO-chair duality, and firm age | 150 pharmaceutical firms, 2001–2010, Secondary, Descriptive correlation Regression |
| 5   | Raithatha and Bapat (2014) | To identify the impact of corporate governance and ownership structure on financial disclosures made by the Indian firms | Disclosure score, board size, board independence, board activeness, board busyness, proportion of shares held by foreign promoters’ shareholders, proportion of shares held by institutional shareholders, CEO duality, size, return on assets, leverage, quality of audit based on audit firm size, and age | 325 listed firms, 2009–2010, Secondary, Descriptive correlation Regression |
| 6   | Kandukuri, Memdani, and Babu (2015) | To assure importance of corporate governance was recognized aftermath the major corporate scandal and regulators all over the world tightened regulations | Tobin’s Q, Log of firm’s age, Log of total firm’s assets, and Corporate Governance Index | 94 firms, 2011–2012, Secondary, Corporate Governance Index |
| 7   | G.C. (2016) | To analyze inter-linkages between corporate governance, ownership structure, capital structure, and firm performance in India | Market to book value, Tobin’s Q, board independence, board size, board committees, remuneration, promoter shareholding, return on assets, leverage, ownership structure, corporate governance, firm size, firm age, market performance, operating performance, and industry dummy | CNX Nifty companies, 2008–2012, Secondary, Regression |
| 8   | Kumar (2016) | To examine the relationship between corporate governance and firm performance in Indian listed IT companies | Return on assets, board size, board independence, and board diversity | All IT listed companies, 2008–2011, Secondary, Descriptive regression |
Table 1A (cont.). Some of prior studies in India

| No. | Author | Objective | Variables | Sample | Period | Data | Methods |
|-----|--------|-----------|-----------|--------|--------|------|---------|
| 9   | Arora and Sharma (2016) | To examine the impact of corporate governance on firm performance for a large representative sample | Return on assets, return on equity, net profit margin, Tobin’s Q, stock returns, square of board size, square of proportion of outside directors, square of board meetings, chief executive officer duality, institutional ownership | 20 industries | 2001–2010 | Secondary | GMM Regression |
| 10  | Kapoor and Goel (2017) | To explore the association between earnings management and specific board characteristics and the firm’s profitability in the Indian context | Dechow and Dichev (2002) model, board size, board independence, board busy, board attendance, firm age, ratio of market value to book value, leverage, firm size, profit, ABS EP, AC size, AC independence, AC attendance, operational performance of the firm, and firm age | 297 companies | 2006–2013 | Secondary | Descriptive regression |
| 11  | Mohan and Chandranohan (2018) | To study the impact of corporate governance on firm performance: empirical evidence from India | Return on equity, price to book ratio, board composition, board size and CEO duality, financial leverage, asset turnover, and growth in sales | 30 firms | 2007–2016 | Secondary | Descriptive correlation Regression |
| 12  | Ahmad and Al-Homaidi (2018) | To examine the disclosure of corporate governance practice in published annual reports of Indian tourism companies | Board of directors (size, composition, and diligence), audit committee (size, composition, and diligence), ownership (government, institutional and overseas) | 53 firms | 2013–2015 | Secondary | Frequency |
| 13  | Al-Homaidi, Almaqtaqi, Ahmad and Tabash (2019) | To examine the impact of corporate governance mechanisms on financial performance of Indian hotel companies | Return on assets, net interest margin, earnings per share, board of directors (size, composition, and diligence), audit committee (size, composition, and diligence), institutional ownership, and company size | 30 firms | 2013–2014, 2015–2016 | Secondary | Descriptive correlation Regression |
| 14  | Al-Matari and Mgammal (2019) | To analyze the impact on the financial performance of Saudi financial firms of corporate governance mechanisms | ROA, board size, board non-executive, audit committee size, audit committee independence, risk committee size, risk committee independence, internal audit size, internal audit education, internal audit professional certificate, firm size, leverage and bank sector | 47 firms | 2014–2017 | Secondary | Descriptive correlation FGLS regression |
| 15  | Al-Matari (2019) | To investigate the impact of board of directors and top executive characteristics on financial sector corporate performance | Tobin’s Q, board size, non-executive board, board meeting, top executive management size, professional certificate of top executive management, experience of top executive management, accounting experience of top executive management, firm size and leverage | 24 firms | 2011–2017 | Secondary | Descriptive correlation FGLS regression |
| 16  | Al-Matari, Al-Swidi, and Fadzil (2014) | To examine the connection between the characteristics of committees, audit committee and the executive committee and firm results in Oman | Tobin’s Q, board size, board composition, board meeting, CEO tenure, CEO compensation, board change, the secretary on the board, the legal counsel, audit committee size, audit committee independence, audit committee meeting, the executive committee size, the executive committee independence, the executive committee meeting, firm size and leverage | 162 firms | 2011–2012 | Secondary | Descriptive correlation Multiple regression |
| 17  | Al-Matari, Al-Swidi, and Faudziah (2014) | To analyze the impact of the relationship between the board of directors on the success of the company in Oman | ROA, board size, board composition, board meeting, CEO tenure, CEO compensation, board change, the secretary on the board, the legal counsel, firm size and leverage | 162 firms | 2011–2012 | Secondary | Descriptive correlation Multiple regression |
| 18  | Al-ahdal et al. (2020) | To analyzes the impact of corporate governance mechanisms on the financial performance of Indian and GCC listed firms | Return on equity, tobin’sq, board accountability, transparency and disclosure, audit committee index, leverage, governance effectiveness, industry dummies, country dummies | 53 companies | 2009–2016 | Secondary | Descriptive correlation Multiple regression |