



Corporate Social and Environmental Responsibility in an Emerging Economy: Through the Lens of Legitimacy Theory

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Abstract

Efforts to promote Corporate Social and Environmental Responsibility (CSER) require an understanding of stakeholder attitudes toward enhanced responsibility. However, little is known about current attitudes on this subject, or the determinants of these attitudes. This study presents a survey of the attitudes of Indian managers, toward 18 social and 16 key contemporary environmental management issues. The findings indicate that respondents are concerned about a range of issues surrounding social responsibility. With respect to environmental responsibilities, Indian respondents were also strong in their support, and identified a select few issues to be more important over other environmental factors. Results indicated a positive attitude of Indian managers towards CSER. Confirmatory factor analysis (CFA) confirmed three distinct social and environmental factors for the respondents and provided a model of managerial attitudes towards CSER.

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1. Introduction

Corporate social and environmental responsibility (CSER) research gained increasing significance, particularly among academic accountants in Western countries (Adams & Kuasirikun, 2004). Whilst there has been an increase in CSER research, most studies have focused on Western countries (Adams & Kuasirikun, 2004). Relatively few attempts have been made to research CSER in the non-western and especially Asian context (Kuasirikun, 2005). Scant published research work (except Belal & Owen, 2007; Islam & Deegan, 2008; Islam & Dellaportas, 2011) is available in the area of managerial attitudes, purely from a south-Asian emerging economy perspective. Fukukawa, Shafer & Lee (2007) suggested that future studies should assess support for SER, and the determinants of such support among stakeholders from a diverse group of nations. Cummings (2008) suggested that future research could undertake further empirical work across geographical locations, and explore in more detail the underlying determinants that shape environmental beliefs and attitudes.

This study is motivated by the urge to obtain a better understanding of managerial attitudes toward CSER within emerging south Asian economies, particularly Indian managerial attitudes. It is important in gaining an understanding of current and potentially future Indian managerial attitudes. Understanding Indian CSER practice is critical because India is one of the important emerging economies in Asia in terms of economic growth, with significant urbanisation, a large populace, and a growing presence in the global market. Despite these factors, Indian environmental practices are far behind those found in developed economies (Balasubramanian, Kimber & Siemensma 2005). This study will help in understanding Indian CSER practices. CSER information is crucial to various Indian government organisations and foreign investors. Embedding social and environmental criteria within the supply chain of companies, including its procurement practices, and adopting international quality standards and benchmarks, are becoming essential in order to attract foreign direct investment, and export goods to countries and markets which require sustainable production practices. In future this will require Indian government authorities to both enact and enforce regulations that improve social and environmental conditions to a level ideally on par with their developed counterparts. Foreign investors may also use environmental information to gauge Indian operating standards, in order to establish and operate sustainable businesses in India.

Some emerging economies are confronted with the widespread problem of poverty, human rights violations, corruption, inequalities and social exploitation. Pachauri (2006) argued that organisations operating within emerging economies have a responsibility to address some of these problems. By holding business organisations to account, Belal and Momin (2009) believed CSER has the potential to promote equality, social justice, transparency and responsibility. Studying attitudes will enable a better understanding of the relationship (if any) among social and environmental factors, such as culture, ethics, education, law and its enforcement, and the attitude towards environmental management, and whether those attitudes vary across different industries (Thorne & Saunders, 2002). This study contributes to the little researched area of managerial attitude towards CSER and does so in Indian context.

The objective of this paper is twofold.

- (1) To examine the Indian managerial attitudes toward CSER and assess their support for social and environmental responsibility.
- (2) To explore the underlying factors those may be responsible to shape Indian managerial attitudes.

Selected contemporary social and environmental issues have been used to determine respondent's attitudes and support. Principal component analysis (PCA) is used to explore the underlying dimension or factors for social and environmental responsibility. A confirmatory factor analysis (CFA) was also undertaken to confirm the social and environmental factors in the study. The paper used organisational legitimacy theory to discuss managerial attitudes with regard to maintaining legitimacy as defined by Suchman (1995). Using a sample of 168 randomly chosen, publicly listed, environmentally sensitive Chemical, Industrial Engineering and Pharmaceutical and Biotech companies, this study investigates managerial attitudes towards CSER with the purpose of better understanding of Indian managerial attitudes toward CSER.

The remainder of the paper is organized as follows: Section 2 presents theoretical framework of the study describing how responsibility and legitimacy are defined with reference to companies. Section 3 reviews relevant prior literature. Section 4 discusses research design issues by presenting methodology, sample and data. Section 5 presents descriptive and empirical results, and section 6 discusses the findings and concludes the paper.

2. Theoretical Framework

While there is no generally accepted theory for explaining CSER practices, recent research in the CSR literature has relied heavily on legitimacy theory (for example, Branco & Rodrigues, 2008; Claasen & Roloff, 2012). According to Gray (1995a), legitimacy theory has an advantage over other theories in that it provides disclosing strategies that organisations may adopt to legitimate their existence that may be empirically tested. Legitimacy theory explains the association of accountability with the society from an organisation's perspective. An organisation will voluntarily report on activities if management perceives that the particular information is demanded by the societies in which it operates (De Villiers & Van Staden, 2006).

Social Responsibility and Legitimacy

Social responsibility

Carroll (1999) stated the question of what constitutes the responsibility of business towards society has been addressed since the 1920s. Although a wide range of definitions for Corporate social responsibility (CSR) was proposed the concept remains disputed until today. The definition provided by Carroll (1999) received a lot of attention. "The social responsibility of business encompasses the economic, legal, ethical and discretionary expectations that a society has of organizations at a given point in time." Competing definitions tried to be more specific by emphasising the voluntary character of corporate social responsibility and linking it, thus, more strongly to ethical and philanthropic responsibilities than to economic and legal ones (Claasen & Roloff, 2012). The European Union defines corporate social responsibility as "a concept whereby companies integrate social and environmental concerns in their business operations and in their interaction with their stakeholders on a voluntary basis". Dahlsrud (2008) developed five dimensions of CSR through a content analysis of existing CSR definitions and commented that "altogether, these five dimensions (1) stakeholder dimension, (2) social dimension, (3) economic dimension, (4) voluntariness dimension, and (5) environmental dimension are used consistently in the definitions. Although they apply different phrases, the definitions are predominantly congruent, making the lack of one universally accepted definition less problematic than it might seem at first glance (p. 7). The understanding of corporate responsibility being an essential part of management rather than a voluntary addition reflects the underlying assumption that companies need to actively ensure their legitimacy to be effective (Claasen & Roloff, 2012). This assumption is more typical for an implicit understanding of CSR that is more commonly found in Europe (Matten & Moon, 2008). Some recent theoretical

conceptions of CSR (Basu & Palazzo, 2008; Claasen & Roloff, 2012) have expressed the idea that social responsible behaviour is instrumental to a company's legitimacy. Suchman (1995) also made a link between a company's active CSR management and legitimacy.

Legitimacy

Legitimacy focuses on whether the value system of an organisation is consistent with the value system of society, and whether the objective of organisations is to meet social expectations (Suchman, 1995). Legitimacy is a condition or a status which exists when an entity's value system is congruent with the value system of the larger social system of which the entity is a part (Lindblom 1994 p. 2). Legitimacy is a generalised perception or assumption that the actions of an entity are desirable, proper or appropriate within a socially constructed system of norms, values, beliefs and definitions (Suchman, 1995, p. 574). The literature on organisational legitimacy tends to identify three alternative forms of obtaining and sustaining legitimacy, but the categorisation differs from author to author (Bitektine 2011). Dowling and Pfeffer (1975) define social legitimacy as the degree to which an organisation conforms to the prevailing social norms and values. They describe three ways of becoming a legitimate organisation:

First, the organisation can adapt its output, goals, and methods of operation to conform to prevailing definitions of legitimacy. Second, the organisation can attempt, through communication, to alter the definition of social legitimacy so that it conforms to the organisation's present practices, output, and values. Finally, the organisation can attempt, again through communication, to become identified with symbols, values, or institutions which have a strong base of social legitimacy. (Dowling & Pfeffer 1975, p. 127)

Suchman (1995) articulated three types of legitimacy, being pragmatic, moral and cognitive, which co-exist and strengthen one another. Types of legitimacy are briefly discussed below.

Pragmatic legitimacy derived from people's perception that organisation is beneficial for themselves. It is thus a form of "exchange legitimacy" (Suchman 1995, p. 578) that serves the needs of self-interested individuals. By addressing stakeholder expectations companies can obtain pragmatic legitimacy. Stakeholder management literature has been widely acknowledged this fact. Some authors (Savage et al. 1991) suggest prioritising powerful vocal stakeholders but others (Freeman, Harrison, Wicks, Parmar & de Colle, 2010) warn managers not to overlook the importance of more vulnerable stakeholder groups for a company's legitimacy in the longer term.

Cognitive legitimacy is the "mere acceptance of the organisation as necessary or inevitable based on some taken-for-granted cultural account" (Suchman 1995, p. 582). For example, companies in the food industry are perceived as more legitimate than companies in the tobacco industry because of the different nature of their products. Cognitive legitimacy is not investigative by nature. The third way described by Dowling and Pfeffer (1975) (i.e. through communicating a link between the firm and legitimate symbols, values and organisations) can influence cognitive legitimacy. This could be attained through a marketing approach that creates this cognitive link. Cognitive legitimacy emerges, when the society regards an organisation and its output, procedures, structures and leader behaviour as inevitable and necessary. This acceptance is based on mostly public assumptions (Palazzo & Scherer, 2006, p. 72). It is difficult for the organisation to directly and strategically influence and manipulate perceptions as cognitive legitimacy operates mainly at the subconscious level (Suchman, 1995).

Moral legitimacy is described as resulting from “a positive normative evaluation of the organisation and its activities” (Suchman 1995, p. 579). According to Suchman, a morally legitimate company is judged by its accomplishments, its work in accordance with socially accepted procedures, and its capacity to perform well and by having a charismatic leader. Palazzo and Scherer (2006) refine Suchman’s concept by arguing that moral legitimacy results from a conscious moral judgment on “the organisation’s output, procedures, structures and leaders” (p. 73). They propose that moral legitimacy is socially created in a reflection of reasons that are used and considered to justify a company’s actions, practices, structures and results. This reflection can either have the characteristics of a discourse in which the better argument prevails and a consensus is reached resulting in “philosophical legitimacy” or it has a political nature and establishes “democratic legitimacy” (Scherer & Palazzo 2007, p.1113). Koppell (2008, p. 182) refers to moral legitimacy as the “true meaning of the word legitimacy,” because cognitive and pragmatic legitimacy imply only that an authority is acknowledged and surrendered to. It is not a decisive factor for cognitive and pragmatic legitimacy whether this authority deserves its status or imposes it. Organisational legitimacy is not a universal concept. Whether an organisation and its actions are perceived as legitimate is socially created, therefore subject to change depending on the social environment in which the organisation is based in. This study discussed managerial attitudes with regard to cognitive, pragmatic and moral legitimacy as done by Claasen and Roloff (2012).

3. Relevant CSER Studies

Managerial attitudes towards CSER in emerging economies could be somewhat different to that in the developed economies because of the socio-economic, (Xiao et al., 2005) and technological development (Williams & Pei, 1999) differences between these groups of countries. Brief descriptions of CSER studies are provided in tables 1.

Table 1 Summary of Studies on Attitudes towards CSER

	Research methods	Brief Description	CSER Studies
Studies on developed economies	Questionnaires and interviews	Predominantly qualitative studies which directly explore managerial attitude towards SER	Arvidsson, 2010; Cummings, 2008; Fukukawa, et al., 2007; Michael, Echols and Bukowski, 2010; Petts, Herd & O'Heocha, 1998; Shafer, 2006; Stanaland, Lwin and Murphy, 2011; Yakovleva and Vazquez-Brust, 2012.
Studies on emerging economies	Questionnaires and interviews	Predominantly qualitative studies which directly explore managerial attitude towards SER	Balasubramanian et al., (2005); Belal and Owen, (2007); Islam and Dellaportas (2011); Islam and Deegan, (2008); Jaggi and Zhao, (1996); Kim and Park (2011) Kuasirikun, (2005); Lawrence, and Roper, (2004); Liangrong and Song, (2008). Rahaman, 2000; Rahaman, Teoh and Thong, (1984); Tian, Wang and Yang, (2011).

In studies based in emerging economies, management attitudes and interpretations of SER have been explored by Jaggi and Zhao, (1996); Kuasirikun (2005); Belal and Owen, (2007), Islam and Deegan, 2008; Islam and Dellaportas, 2011; and Tian et al., 2011. Investigating the attitudes of managers and management accountants in Hong Kong, Jaggi and Zhao (1996) commented that although managers were concerned about the protection of the environment in Hong Kong, but they did not show much enthusiasm to convert their attitudes into action. A similar attitude was found by Kuasirikun (2005) who evaluated attitude to social and environmental accounting among Thai managers and management accountants. The author argued that changing attitude will have to involve a change in the nature of the Thai accounting profession.

Liangrong and Song (2008) investigated how Chinese senior executives and middle level managers perceive and interpret CSER, to what extent firms' characteristics influence managers' attitudes towards CSER and whether their values in favour of CSER are positively correlated to firms' economic performance. They found an overall favourable view, but the true nature of their attitude was linked to entrepreneurs' gaining economic benefits. They also found that managers of firms smaller in size, state-owned, and located in poorer regions are more likely to strongly support CSER. Tian et al. (2011) examined the attitude of consumers towards CSER in China. The authors found that product categories influence the consumer responses to CSER not the responsibility. The authors concluded that consumers with middle level of age and income showed positive attitude towards CSER.

Belal and Owen (2007), Islam and Deegan (2008) and Islam and Dellaportas (2011) have explored the attitudes of managers of Bangladeshi companies. Using 23 semi-structured interviews, managerial perceptions of Bangladeshi organisations had been studied by Belal and Owen (2007). The results propose that a desire to manage powerful stakeholder groups was the main drive behind Bangladeshi CSER. They commented that "outside forces" and pressure from international buyers are eventual motivating force behind rising CSER practices in Bangladesh. Using legitimacy theory as a framework, the drive for Bangladeshi CSER had been re-examined by Islam and Deegan (2008). The results are similar to that of Belal and Owen (2007). Belal and Owen (2007) also claim that social policy and reporting in the garment industry is compelled by such pressure. Rahman (2000) explored senior management attitudes towards CSER in Ghana, and found that the principal determinants of their attitudes were pressures from international lending agencies (such as the World Bank and the IMF), management philosophy, government regulation and the desire to achieve listing on international stock markets. Rahman et al. (2004) explored this issue further in a later study and found that the main driving force behind CSER in the Volta River Authority was external pressure from international lending institutions such as the World Bank.

In summary, few studies have investigated managerial attitudes towards CSER. The minute amount of literature looking at emerging economies suggests that corporate attitudes could be somewhat different from that found in developed economies. Belal and Momin (2009) argued that the difference could be because of the differences in the level of socio-economic and technological development between these two groups of countries. Various authors (Belal & Owen, 2007; Islam & Deegan, 2008; Rahman et al. 2004) argued that consumer pressure or pressure from non-government organisations or civil society groups are the driving force for CSER in organisations in developed economies. In contrast, the driving force of CSER in organisations in emerging economies which depend on foreign loans and aid, could be external pressure from international lending institutions (Rahman et al. 2004), pressure from particular stakeholders (such as international buyers) to upgrade their social performance, which shaped

their social policy (Belal & Owen, 2007), pressure from outside forces via parent company's instructions and pressure from international buyers (Islam & Deegan, 2008). Table 2 summaries the key variables and related study on emerging economy.

Table 2 Summary of the Key Variables and Related Study on Emerging Economy

Key Variable	Study
Differences in the level of socio-economic	Xiao et al., 2005.
Technological development	Williams and Pei, 1999.
External pressure from international lending institutions	Rahman et al. 2004.
Pressure from particular stakeholders	Belal and Owen, 2007.
Pressure from outside forces via parent company's instructions and pressure from international buyers	Islam and Deegan, 2008
Age and level of income	Tian et al. 2011

Managerial attitudes towards CSER in India have not been researched. Scant research has attempted to describe CSER for certain emerging economies in Asia such as Bangladesh, China and Thailand. Therefore, using data from Indian companies, this study aims to examine Indian managerial attitudes towards CSER.

4 Research Method to Assess Managerial Attitudes

4.1 Survey Instrument Development

Similar to Bhattacharyya and Cummings (2013) and Fukukawa et al. (2007) the survey research method is used in this study. A paper-based questionnaire was used for the survey. The questionnaire drew on different issues arising from CSER literature to ascertain managerial attitudes towards these issues and how these issues influence attitudes toward the social and environmental responsibility of Indian managers. Accordingly, the questionnaire was structured and divided into three sections: managerial attitudes toward social responsibility; managerial attitudes toward environmental responsibility; and demographic questions. Interval response scales of 1– 5 (Likert Scale e.g., 1 strongly disagree to 5 strongly agree) were used.

The social responsibility section was developed using 18 items (see table 4). Five items (B1, B2, B6, B7 and B9) measured respondent's attitude towards social rules, three items (B4, B13 and B17) measured respondent's attitude towards employees and their rights, while three items (B8, B10 and B11) measured respondent's attitude towards corporate social responsibility and reporting. Another four items (B3, B5, B15 and B18) measured respondent's attitude towards their community and towards corruption prevention. The remainder measured respondent's attitude towards customer health and safety and resource constraints. The environmental responsibility section (see table 5) consisted of 16 questions. Five items (C9, C10, C11, C12 and C13) measured respondent's attitude towards different aspects of environmental reporting; two (C3 and C16) measured their attitude towards trade sanctions and environmental taxes. Respondent's attitude towards increased government regulations, independent verification, compliances and enforcement of environmental regulations were measured by four items (C4, C8, C14, and C15), whilst another two items (C1 and C2) measured attitudes towards local culture and values. The other items measured attitudes towards an environmental management system, recording of greenhouse gas emissions and policy decisions. The demographic section of the questionnaire (see table 3) included questions relating to age, gender, education level and managerial position.

4.2 Data Collection

The data was collected through a professional data collection agency, Market Xcel Data Matrix Pvt Ltd, which had the necessary expertise and manpower to facilitate a higher response rate. A sample size of 350 organisations from three industries (Chemical, Industrial Engineering and Pharmaceutical/Biotech) was randomly selected. These industries were selected based on the social perceptions that organisations operating in these Chemical, Industrial Engineering and Pharmaceutical/Biotech industries are more likely to be considered socially and environmentally sensitive (Elkington, 1994). Many prior studies have compared between industries, this study examined the effect within one industry group considered socially and environmentally sensitive thus contributes to the theory of legitimacy. Industry classification and companies were selected randomly from the list of companies provided by the electronic database, DataStream Advance 4. An industry wide list of selected companies along with a questionnaire was supplied to Market Xcel Data Matrix Pvt Ltd, for collating the information. This data collection company maintained data originality and independence by following the International Code on Market and Social Research (ICC/ESOMAR) guidelines, (www.esomar.org) and maintained international delivery standards. To maintain data originality and reduce the risk of a low response rate, the author was personally present in India (at the beginning of the collection process) and oversaw (gave instructions from time to time) data collection to avoid possible data duplication and fraud, and to make sure that the data collected was original, legitimate and reliable. The firm randomly selected participants from their database who were middle / top level corporate / branch managers of companies. The firm delivered questionnaires to the selected participants, who had the option to complete it in their own time. The firm personally collected the completed questionnaires after a period of approximately one week from the participants. Due to the different operational environment in India it was prudent to have a professional firm deliver and collect the questionnaires, as mailed questionnaires would most likely remain unanswered without a personal approach. A total of 170 questionnaires were finally received with responses.

4.3 Analysis

The aim of this study is to explore the Indian managerial attitude towards social and environmental responsibility. Hence, a three-step data analysis procedure was undertaken in this study. In the first step, responses to scale items by the respondents were analysed. In the next step, an exploratory principal components analysis (PCA) with varimax rotation and Kaiser normalisation was undertaken to identify the number of factors that underlie the variables of social and environmental responsibility. In the final stage a confirmatory factor analysis (CFA) was also undertaken to confirm the social and environmental factors in the study. Factor analysis is a data reduction technique that can be used for reducing a large number of variables to a smaller set of underlying factors that summarize the essential information contained in the variables (Coakes, Steed & Ong, 2010). PCA helped the researcher in evaluating the new scales developed for the study, by identifying the underlying structure (dimensions) of the key constructs. Next, the CFA enabled confirmation of the discriminant validity of the key constructs. Finally, a full structural model tested the relationships developed in the conceptual model.

5. Findings

5.1 Descriptive Analysis

Respondents' positions ranged from vice president to assistant manager, with 11% holding a director's position and 62% managerial positions. The majority (67%) of respondents was aged between 25 and 44 years and most (90%) were male. All respondents identified themselves as Indians with Indian cultural background, with many having a master's degree (45%). The preliminary analysis indicated that overall, the data had moderate levels of skewness, (between -1.395 and -0.254) indicating normal distribution. The findings enabled the researcher to explore the responses to each question in the survey and understand the symmetry of the data.

Table 3 Descriptive Statistics of Respondents

Characteristic	Attributes	N= 170	%
Gender	Male	153	90
	Female	17	10
Age	Under 25	5	2.9
	25-34 years	46	27.1
	35-44 years	64	37.6
	45-54 years	37	21.8
	55+ years	18	10.6
Country of birth	Australia	Nil	
	India	170	100
	Others	Nil	
Resided in the country of residence	> 10 years	4	2.4
	10 to 20 years	20	11.8
	20 years +	146	85.9
Education	Non-university Post secondary	14	8.2
	Bachelors	77	45.3
	Masters	77	45.3
	others	2	1.2
Occupation	Director	19	11.2
	Manager	100	58.8
	C EO	4	2.4
	Chief Accountant	2	1.2
	Others	45	26.5

It is indicated in table 4 that the mean responses to most of the social responsibility items ranged from 3.59 to 4.30. This suggests that average respondents in the study had high support for the most of the social responsibility related items of the questionnaire. The low standard deviation (narrow spread) of scaled items reflects a greater consensus of attitude amongst Indian managers (Shafer, 2006). Respondents supported strongly about a range of issues on social responsibility, ranging from corruption prevention policies, customer health and safety, sustainability report, and employee's rights and benefits. This finding indicates that respondents are concerned about a range of issues surrounding social responsibility. Alternatively it can be suggested that three issues of health and safety (mean score 4.33), corruption prevention, (mean

score 4.33) and employee benefits, (mean score 4.26) have been the key social issues perceived by the participated Indian managers. On the down side, the Indian respondents more or less provided the least support to the organisations' community involvement, educating employees about social rules, the practice of higher ethical standards by Indian managers and the resource constraints to influence the discharge of social responsibility.

The mean response to the environmental responsibility items ranged from 3.59 to 4.20, suggesting that the respondents were in good favour of the questions. The respondents mostly favoured specific issues concerning environmental responsibility such as, the acquisition of international standards for environmental management system, keeping records of the amount of greenhouse gas emissions, consultation with various stakeholder groups while making environmental policy decisions, standalone environmental reporting, and poor compliance with environmental regulations. At the same time they moderately favoured the rest of the items on environmental responsibility. This finding also indicates that respondents are concerned about environmental responsibility, however they categorised few issues to be more important over other environmental factors.

Table 4 Mean Scores of Social Responsibility Items

	Social responsibility item description	Mean (Sd)
B17	An organisation should make its policies on corruption prevention publicly available.	4.30 (0.72)
B16	An organisation should make its policies on customer health and safety publicly available.	4.21 (0.74)
B10	A sustainability report will improve the image of an organisation.	4.16 (0.64)
B15	The full range of organisational employee benefits should be made available to all employees.	4.15 (0.75)
B14	Corporate social responsibility (CSR) reporting should be mandatory.	4.11 (0.78)
B13	Informing employees about their rights is the responsibility of top management.	4.09 (0.83)
B2	The cultural values of a country directly influence the development of an organisation's social reporting system.	4.04 (0.75)
B8	Social codes of conduct encourage an organisation to be more accountable.	4.03(0.75)
B6	Educating employees about social rules is the organisation's responsibility.	4.01(0.90)
B11	A sustainability report will improve the competitiveness of an organisation.	3.98 (0.79)
B1	The social rules of a country influence individual attitudes towards accountability.	3.98 (0.71)
B18	An organisation should make its policies on the extent of local area employment publicly available.	3.92 (0.79)
B9	Organisations must discharge their social obligations to survive.	3.88 (0.85)
B3	The needs of society overall are just as important, if not more important in managerial decision making, as the specific needs of the shareholder.	3.83 (0.843)
B7	Multinational organisations apply a higher standard of social responsibility in their home (domiciled) country.	3.82 (0.86)
B5	The primary area of social concern for organisations is community involvement.	3.79 (0.93)
B4	Managers in this country are more likely to practice higher ethical standards than managers overseas.	3.69 (0.90)
B12	Resource constraints are the main obstacle for organisations wishing to discharge their social responsibility.	3.59 (0.96)

Table 5 Mean Scores of Environmental Responsibility Items

	Environmental responsibility item description	Mean (Sd)
C4	A register to record the amount of greenhouse gas emissions should be maintained by corporations in the manufacturing industry.	4.20 (0.61)
C3	Corporations in the manufacturing industry should acquire ISO14001 – the international standard for environmental management systems.	4.15 (0.76)
C9	Individual environmental behaviour is influenced by local culture.	4.09 (0.68)
C16	Weak enforcement by authorities causes poor organisational compliance with environmental regulations.	4.08 (0.65)
C5	Managers should consult with various stakeholder groups when making environmental policy decisions.	4.06 (0.79)
C7	A stand- alone environmental report (separate from an annual report) should be published by organisations operating in the manufacturing industry.	4.01 (0.76)
C6	Local organisations should be subject to the same degree of environmental scrutiny as organisations from foreign countries (i.e. multinationals).	3.99 (0.81)
C2	Trade sanctions should be imposed on countries not complying with international environmental agreements.	3.97 (0.82)
C15	An increase in government regulations/oversight will encourage a more balanced approach to environmental reporting.	3.96 (0.74)
C13	Reporting on its environmental activities can add value to an organisation and help it reduce costs in the long term (> 3 yrs).	3.94 (0.71)
C8	An organisation's environmental performance should be subject to independent verification by a government authority.	3.91 (0.92)
C14	Environmental taxes can be an important way of achieving reductions in greenhouse gases.	3.79 (0.96)
C10	Most organisations do not report environmental information because they believe their operations do not have significant environmental impact.	3.77 (0.84)
C12	Reporting on its environmental activities can add value to an organisation and help it reduce costs in the short term (< 3 yrs).	3.72 (0.84)
C1	The degree of pressure from stakeholders determines the level of environmental reporting by an organisation.	3.65 (0.83)
C11	Most organisations do not report environmental information because they do not have the resources to do so.	3.59 (0.94)

5.2 Principal Components Analysis (PCA)

A PCA (using SPSS) with varimax rotation and Kaiser normalisation was used to explore the underlying dimension or factors for social and environmental responsibility of respondents. This provided a better understanding of which factors constitute both social and environmental responsibility for the respondents. Cronbach's Alpha test was undertaken to test the reliability of the items. The values of the Cronbach's Alpha were in the range of .80 to .60, which is considered acceptable for exploratory measures (Nunnally, 1967). However, before conducting the analysis several diagnostic tests were performed to ensure that valid conclusions are drawn based on the factor analysis. Barlett's test of sphericity and the Kaiser-Meyer-Olkin (KMO) measure of sampling adequacy was also performed to determine the factorability of the matrix.

To check the normality of the data, skewness and kurtosis of the variables were examined. The skewness and kurtosis of all of the observations were within the range of $2 \times$ Standard Error. Linearity was checked by scatterplots of pairs of variables. The Bartlett's test ensured that the correlations were significant at the .001 level and the Kaiser-Meyer-Olkin (KMO) measure of sampling adequacy (MSA) value falls in the acceptable range (above 0.50) with a value of 0.729 indicating that the variables meets the fundamental requirements for factor analysis.

5.2.1 *PCA of social responsibility*

The analysis revealed five interpretable factors that explain 58.6% of the total variance. Table 6 present the results. Indian managers considered factors internal to the organisation such as social rules and responsibilities (factor 1), availability of information (factor 2), needs and responsibilities of organisation (factor 3), influences on social accountability (factor 4), and sources within organisations (factor 5) to measure social responsibility.

Factor one, which is referred to herein as 'social rules and responsibilities', based on its items commonality represent the social obligation, social codes and responsibility of the organisation. This factor consists of three items, B14, B9 and B8 that load in the range of 0.61 to 0.65. Similarly, factor two has three items B16, B15, and B18, that loaded in the range of 0.52 to 0.82. However, the respondents considered that these two items along with item B16 to be important items that represent the organisations' role in making policies related to employment, employee benefit, and customer health and safety available to people. This is evident by the mean score of the three items ranging from 3.92 to 4.21 and high loading of the three items together on one factor proving its discriminant validity, (Nunnally & Bernstein, 1994). Hence, factor two is labelled as 'public availability of organisational policies'.

The third factor consisted of three items, B3, B6, and B13. The analysis revealed items B6, (educating employees about social rules) B13, (informing employees about their rights) and B3, (societal needs are important) loaded on one factor in the range of 0.52 to 0.64. Hence, we named these three items as, 'needs and responsibilities of the organisation', based on their item commonalities that represented the factor. Factor four consisted of two items B1, (social rules of a country influence individual attitudes toward accountability) and B2, (cultural values of a country directly influence the development of an organisation's social reporting system), that loaded in the range of 0.75 to 0.85. These two items are named as, 'influence on social accountability'. This decision was taken to remain consistent with other dimensions of social accountability to represent the factors internal to the organisation, as mentioned above. The five factors of social accountability displayed good reliability score in the range of 0.8 to 0.95 (Nunnally and Bernstein, 1994). Thus, all factor loadings and the factor reliabilities for the SEA items were relatively high, suggesting that these items measure five distinct constructs. Based on the factor loadings few factors such as factor 4 'Influences on social accountability' (average load .80), factor 5 'Organisational sources to improve social accountability' (average load .73) and factor 2 'Public availability of organisational policies' (average load .70) were more important than other factors. It also indicates that important variables according to factor loadings are B1 (.85), B16 (.82), B2, B15 (.75) and B12 (.74).

Table 6 Factor Analysis of Social Responsibility

	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
<i>Social rules and responsibilities</i>					
B14: Corporate social responsibility reporting should be mandatory.	.65				
B9: Organisations must discharge their social obligations to survive.	.63				
B8: Social codes of conduct encourage an organisation to be more accountable.	.61				
<i>Public availability of organisational policies</i>					
B16: An organisation should make its policies on customer health and safety publicly available.		.82			
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