A Corporate Social Responsibility Indicator System For Construction Enterprises In Vietnam

An Hoang Bac¹, Huyen Tran Thi Thanh²

¹Department of Civil Engineering, University of Architecture Ho Chi Minh City, Ho Chi Minh City, Vietnam. ²Department of Accounting and Finance, Nguyen Tat Thanh University, Ho Chi Minh City, Vietnam.

> Received Date: 22 April 2020 Revised Date: 08 June 2020 Accepted Date: 12 June 2020

Abstract

Corporate social responsibility (CSR) is now being valued as a factor that will contribute to the sustainable development of businesses, especially businesses in the construction industry. However, understanding the meaning of CSR in the construction industry and how it is practiced is currently limited. This paper aims to develop a framework for CSR indicators related to construction businesses in Vietnam to further clarify the content and aspect of the CSR conceptual framework. Based on stakeholder theory, CSR issues to stakeholders were developed to address key elements of CSR of construction companies. The indicators are then extracted to reveal the specific content contained in these performance issues. The indicator system guides the implementation of CSR in the construction industry, allowing construction businesses to evaluate the effectiveness of CSR scientifically, thereby supporting the sustainable development of enterprises.

Keywords — *CSR*, *CSR* index, construction industry, *CSR* in construction, stakeholder theory, Vietnam.

I. INTRODUCTION

Currently, Vietnam is a developing country, so the demand for infrastructure and facilities is increasing, which is a premise for the construction industry in Vietnam to develop. In the world, the growth of the construction industry will develop society, according to (Global_Construction, 2015)- forecasts the volume of construction output will grow by 85% to \$15.5 trillion worldwide by 2030, with three countries -China, US, and India - leading the way and accounting for 57% of all global growth. In Vietnam, according to (GSO, 2019), the contribution of the construction industry ranked 3rd in the contribution to GDP growth, particularly in 2019, the industry and construction sector increased by 8.85%, contributing 48.6% to the economy. The construction industry brings a lot of benefits to society such as creating jobs for workers, building infrastructure to meet the needs of people and social organizations, and supporting the community such as building gratitude houses, supporting victims of natural disasters, floods ...

However, in addition to positive contributions, there are many issues related to the construction

industry that are criticized for being less concerned about the environment and society (Barthorpe, 2010). Construction has affected the health and life of the people around the site such as dust and gas emissions, noise pollution, waste generation, resource abuse, and pollution (Tam, Tam, and Tsui, 2004; Wu et al., 2008; Silva et al., 2017). Construction businesses often use large amounts of resources and energy but the efficiency is low, especially in developing countries. Research from (WBCSD, 2009) shows that more than 50% of natural raw materials are used to construct buildings, these buildings themselves consume more than 40% of global energy when they are built and operated. In Vietnam, the amount of minerals exploited as construction materials has been constantly increasing, from 2006 to 2017, the exploitation and processing output increased nearly 3 times, specifically in 2017, about 530 million tons. The annual amount of industrial waste is about 27 million tons, of which the proportion of construction demolition waste is about 20% (Van Tuan et al., 2018). Several organizations have implemented ISO 14000 International Environmental Management (EMS) standards to improve environmental performance, however, many construction enterprises have not shown adequate attention to the environmental issues (Tam, Tam, and Tsui, 2004)(Turk, 2009).

From a social perspective, the construction industry is a high-risk occupation, especially labor insecurity, causing great economic losses. Statistics show that fatal accidents for workers in construction companies are often much higher than for other industries with main causes such as falling from above, operating machinery and equipment (Maxwell and Decker, 2006). According to the statistics of the Labor, Invalids and Social Affairs Inspectorate of Ho Chi Minh City, among the 160 labor accidents in the construction industry in recent years, up to 65-70% of the errors are attributable to employers. They hire seasonal workers, do not have health insurance, social insurance, contractors are not equipped with knowledge of occupational safety, leading to problems during the construction process such as the collapse of scaffolding, partial collapse of a house or structure ...

Quality issues in construction projects and a lack of awareness about social responsibility also occur in many construction enterprises. (KPMG, 2013) reports that the construction industry is one of the slowest sectors to realize their CSR obligations compared to other sectors.

Therefore, the trend of sustainable construction is being carried out by many countries, among which is the leading of European countries towards construction enterprises focusing on implementing their social responsibility in the process of implementing, operating, and maintaining projects. An increasing number of organizations have adopted Social Responsibility 8000 (Leipziger, 2015) to audit their social responsibility performance (Maxwell and Decker, 2006). Other similar activities are carried out by organizations to identify challenges and formulate key strategies for the implementation and reporting of social responsibility in the sector (Székely and Knirsch, 2005)(AA1000, 2008).

So what is sustainable development? How to develop sustainably in the construction industry is an issue of concern for Vietnamese businesses today. With competition in the construction market becoming increasingly fierce, construction industry enterprises are turning to social responsibility as a means to enhance their brand.

II. CONCEPT FRAMEWORK AND THEORETICAL BACKGROUND

A. The CSR concept

(Bowen, 1953) first mentioned the social responsibility of business owners as "the responsibility of business owners does not damage the rights and interests of others; business owners must have charitable lines and make up for the damages their businesses cause when harming society ... ".

(Carroll, 1979, 1991)argues that CSR includes economic, legal, ethical, and charitable expectations that society wants organizations to do at a given time. (Carroll, 1991) presented the pyramid of CSR, which emphasizes the combination of entrepreneurial ethical views on the four key aspects of social responsibility, include charity responsibilities, ethical responsibilities, legal responsibilities, and economic responsibilities (Fig.1).



Fig1: Carroll's Pyramid of Social Responsibility (Carroll, 1991)

Currently, a number of organizations in the world have introduced CSR conceptual frameworks for social responsibility to provide ways to assess and implement social responsibility in enterprises such as the European Commission: managing human resources, health, and safety at work, adapting to changes, managing environmental impacts and natural resources or measures, outside the enterprise, including local communities, partners, suppliers and customers, human rights, global environmental frameworks.

Meanwhile, the Global Reporting Initiative (GRI) has developed the most popular global sustainability reporting framework, which provides a set of operational principles and indicators for the implementation of social responsibility. The AA1000 Standard of Accountability Principles is based on the principle of increasing accountability for multinational organizations towards responsible business as well as more sustainable development. The Organization for Economic Co-operation and Development has guided responsible business practices for multinational enterprises regarding contents: human rights, employment and labor, environment, exchange, and labor relations, benefits of consumers, science and technology, competition and tax calculation(BIAC, 2012). ISO international standard organization for management system related to social responsibility is included in the ISO 26000 series, for ISO organization issued in 2010 mainly guiding how enterprises can operate, how to have social responsibility. The main contents of the concept of social responsibility concept of organizations in the world are shown in Table 1 below.

Framework for CSR concept of organizations in the world									
Content	EU	GRI	OECD	AA10000	IIRC	IFC	CDP	ISO	GIIRS
Employees	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			\checkmark
Customer	\checkmark	\checkmark		\checkmark		\checkmark			\checkmark
Product		\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
Environment	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Energy	\checkmark	\checkmark		\checkmark	\checkmark		\checkmark		
Community	\checkmark	\checkmark			\checkmark	\checkmark		\checkmark	\checkmark
Government		\checkmark							
Compete	\checkmark	\checkmark	\checkmark				\checkmark		\checkmark

TABLE 1 Framework for CSR concept of organizations in the wo

Because the concept of CSR is so diverse and inconsistent, there is little uniformity in the CSR frameworks, so the implementation and reporting of CSR have developed in a manner specific to needs. Therefore, the main objective of this study is to develop a CSR indicator system that can be used to evaluate the performance of CSRs of construction companies and to guide scientific considerations of social responsibility. The theory of stakeholders is applied as a conceptual basis for the development of the CSR framework. The application of this theory provides a link between the concept and the selection of indicators, providing a definition of measurement and the concept of social responsibility. To develop an appropriate and meaningful CSR indicator, the first phase of this study is to identify stakeholders in the implementation of social responsibility of construction enterprises.

B. Theory background

Stakeholder theory reflects the concept of governance and ethics, first introduced by (Freeman and Cavusgil, 1984). The theory is that for businesses to survive, they must get the approval and continued support of their stakeholders and as a result businesses will tailor activities to maintain support (Clarkson, 1995)(Mitchell, Agle, and Wood, 1997)(O'Donovan, 2002). The main content of this theory is that the success of an organization depends on the relationship between the manager and the stakeholders such as investors, employees, creditors, customers, contractor/suppliers, the state, and the social community that is concerned with achieving the goals of the business. In which the level of contribution of each related party will have different moves to care about the business results of the enterprise such as investors want to get the maximum profit for the money they invest in the enterprise; employees want businesses to compensate in a way that is worth their efforts through compensation, reward, assessment of skills, position, working environment...; customers are interested in product quality and price of goods supplied by enterprises; suppliers pay attention to solvency, ability to consume goods, and services they provide; State management agencies are interested in whether enterprises carry out legal responsibilities on people, products, taxes ..., the social community is interested in how businesses' business activities have an impact on the environment..... It is because the interest of the stakeholders involved in the business at different angles and levels makes managers to consider the interests of all groups and to balance their interests in the decision making process.

The identification of relevant stakeholders is closely related to the conceptual framework, which is a conceptual framework for building CSR efficiency issues. This study is a global approach to identify stakeholders affecting CSR in construction activities. Due to the nature of the industry, construction companies operate at two different levels: the corporate and project level. The corporate level is often related to enterprise interactions in the broader economic, social, technological, political, environmental, and legal context (Moodley, Smith, and Preece, 2008). Project level involves interactions that arise from the implementation of a particular project. Previous studies have mainly focused on social responsibility issues at the corporate level. However, the construction industry is a project-based industry, in which projects are often long-term, geographically dispersed, and fixed in terms of completion time and results. Therefore, the stakeholders involved in each construction project differ significantly from the parties involved in each construction corporate.

Stakeholders in the conceptual framework and process project can be divided into two levels: stakeholders at the corporate level and stakeholders at the project level.

Stakeholders at the corporate level are meant to meet the requirements of employees and customers, shareholders, and government-related to the enterprise. Thus the social responsibilities that enterprises must fulfill include legal, economic, and moral responsibilities (Carroll, 1991). For example, the economic responsibility of an enterprise is to ensure that its continuous operation generates profits, to provide dividends to shareholders, to repay the debt to creditors, and to pay salaries and allowances to employees. Ethical responsibility has implications for public welfare, such as participating in charitable activities, sponsoring social community activities, and supporting disadvantaged groups (Wang and You, 2008). Legal responsibilities related to enterprises must comply with laws and regulations such as the Law on construction, Building codes. Stakeholders at the corporate level are not only related to the whole organization, such as shareholders, employees, creditors, etc. that have direct economic or commercial interests in the company but also include people who are concerned or complain about the company's operations, such as local communities, state management agencies, and local governments, non-governmental organizations (NGOs).

It is possible to generalize stakeholders at the corporate level as shown in Fig. 2.

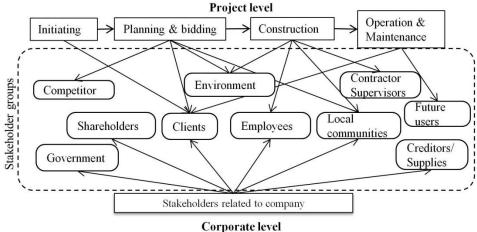


Fig 2: Stakeholder groups mapped into construction enterprise

III. METHOD OF MEASURING CSR INDICATORS IN CONSTRUCTION ENTERPRISES

Based on the conceptual framework and background theory of stakeholders, in this study, the author determines social measurement indicators based on the following steps (Fig. 3).

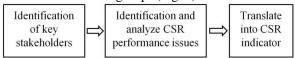


Fig 3:Research process

In general, construction projects progress through the following stages: Project initiation, Project planning, Project execution, and finally acceptance and maintenance (Fig.4 Project life cycle).

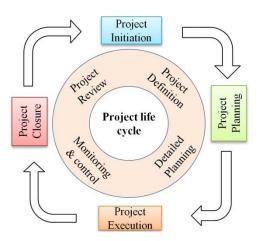


Fig 4: Project life cycle

The initiation stage was carried out from activities such as investment intent research, opportunity research, and project approval. During this period, customers need to discuss the necessity of the project, the feasibility of construction conditions, profitability and the impact of the project on the surrounding environment.

The technical design stage is greatly influenced by customers' wishes and aspirations, total investment, project progress, construction stability, security issues, energy-saving, and environmental protection.

At the construction preparation stage, the impact of the project on the surrounding environment and fair competition during the process should be considered. Therefore, at the planning and bidding stage, stakeholders are customers, local communities, and competitors.

After winning the bid, the construction stage must ensure the project quality, period, cost and safety, and environmental protection objectives. During this period, the enterprise's social responsibility will be influenced by stakeholders such as officers and employees, directly and indirectly, participating in the project, suppliers/contractors, partners, customers, related issues. Environmental concerns and local communities are involved in this process. Finally, the time to complete the handover of the project and the warranty is primarily the responsibility of the customer. Fig. 5 shows the interaction of stakeholders in the life cycle of construction projects at each stage of the project process.

Based on Table 1, combined with the theory of stakeholders with the characteristics of construction enterprises (Fig. 2), the author has determined the framework of CSR indicators by capturing the benefits and concerns of stakeholders of enterprises in the construction industry.

These social responsibility indicators will be the basis for identifying the issues of social responsibility of enterprises in the construction industry from which to use quantitative and qualitative methods to supplement the solutions for determining operational efficiency of businesses in economic, environmental, and social aspects. The development of these indicators is also intended to help address the main concerns of each stakeholder and guide businesses to more effectively manage. Therefore, to develop the

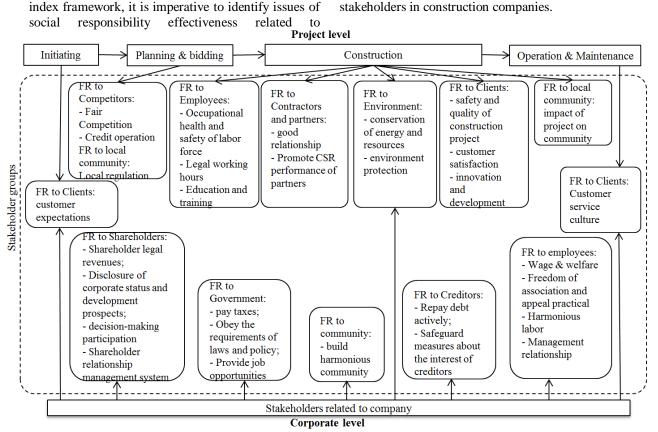


Fig 5: CSR performance factors relevant for construction companies

Vietnamese construction enterprises when implementing projects will have to comply with the standards to ensure the quality of works as well as safety for the community, these are also the main evaluation systems related to the social responsibility of businesses. In Table 2, the evaluation systems related to the performance of enterprises are summarized.

From Fig. 5 (a system of relevant assessment ide standards), the characteristics of construction of enterprises have been described in the operation stat process to reflect the requirements of stakeholders an that enterprises must implement social responsibility, the TABLE 2

from that will determine the effectiveness of social responsibility of construction enterprises. In addition to general standards, several specific regulations that construction industry enterprises must meet to ensure the reflection of the effectiveness of production activities as well as the effectiveness of social responsibility.

Combining Table 2 and Fig. 5, the author aims to identify key factors affecting the social responsibility of construction corporates. The author will conduct statistics and build indicators for each factor based on an overview of previous studies and background theory of stakeholders (Table 3).

Treaties and standards	Evaluation indexes	Content index	Related research
GRI		Energy; Product Environment; Employees;	(Moodley, Smith and Preece, 2008); (Shen <i>et</i>
FTSE4good	- DJSI	Social community Environment; Stakeholders; Community; Human rights	<i>al.</i> , 2007); (Petrovic- Lazarevic, 2008); (Mitchell, Agle, and
Business Ethics 100	- FTSE- All index - Domini Index - KLD	Environment; Employees; Social community; Diversity; Customer	Wood, 1997);(Rhodes, 2015); (O'Connor and Spangenberg, 2008).
WBCSD	- Content analysis method	Energy; Environment Employees; Social community; Anti-corruption	
UNGlobal Compact		Environment; Employees;	

Documentation system	of social	responsibility	assessment			

		Human rights; A	nti-corruption			
		Environment;	Employees;			
GIIRS		Social	community;			
		Governance strue	cture			
ISO 26000:2010		Human right; Hu	man;			
		Environment;	Product;			
		community; Fair				
AA10000 series of	Quality of published	information about	CSR			
standards						
Vietnam Building codes						
- QCVN 02:2009/BXD	Natural Physical & Climatic Data for Construction.					
- QCVN 05:2014/BXD	Dwellings and Public Buildings - Occupational Health and Safety.					
- QCVN 06:2010/BXD	Fire Safety of Buildings.					
- QCVN 09:2013/BXD	National technical re	regulation on energy efficiency buildings				
- QCVN 10:2014/BXD	- QCVN 10:2014/BXD National Technical F			Regulation on Construction for Disabled Access to Buildings		
and Facilities.						
- QCVN 16:2011/BXD	Products, Goods of B	Building Material.				
- QCVN 18:2014/BXD	National technical re	gulation on Safety	in Construction	L		

TABLE 3

TL - C- - 4

	The factors affect the stakeholders								
	Impact	CSR	Treaties and	CSR indicator					
No	factor	efficiency	standards	Indicator	Corporate level	Project level			
		Financial performance		 The value of financial results such as maintaining and improving the indicators of revenue, profit, Stock value, Company reputation, Construction market share. 	\checkmark	✓			
1	Shareholder	Efficiency on management	GRI	-Management effectiveness (indicators related to the construction enterprises), - Organizing and coordinating between departments, corporate culture, building relationships and images of businesses with customers and partners	✓	~			
			GRI, Business Ethics 100, WBCSD, GIIRS, UN Global Compact, SA8000,	 Having a safe and healthy working environment; Organizing medical examination and treatment 	✓ ✓	√ √			
2	Employees	Employees Health and labor safety QCV BXI QCV	OHSAS18001, OHSAS18002, QCVN 05:2014/ BXD, QCVN 18:2014 / BXD	for employees. - Raising awareness and responsibility for construction safety. - Regular maintenance of construction machinery and equipment;	\checkmark	✓ ✓			
			(Thuy, 2017)	- Management process of labor safety supervision.	\checkmark	\checkmark			

				Encouring the maining	\checkmark	/
				- Ensuring the minimum wage as prescribed;	v	v
				-Transparency of wages,	\checkmark	\checkmark
		Wages and		bonus, allowance, and		
		benefits		social security policies.		
				- Resort according to	\checkmark	\checkmark
				regulations		
				- Training suitable for the	\checkmark	\checkmark
				job;		
				- Employees are aware of	\checkmark	\checkmark
		Training and		the rules, company		
		promotion		culture;	,	,
		Fairness of		- On-site career guidance	\checkmark	\checkmark
		rights and		plan for employees	/	
		obligations		- Human rights policies;	~	\checkmark
		C		- Regulations on corporate	\checkmark	\checkmark
				culture,	/	/
				- Purchase Policy for	\checkmark	V
				employees. - The quality and	\checkmark	./
				durability of the entire	v	v
				building;		
				- Meet legal and safety	\checkmark	\checkmark
		Quality and safety of construction products		requirements;	·	•
				- Eliminate potential	\checkmark	\checkmark
				safety threats for		·
				customers and the		
				community;		
			ISO,	- Establishing a project	\checkmark	\checkmark
			QCVN 1: 2008/BXD,	quality management		
			QCVN 05: 2014/BXD, QCVN	system.		
3	Products	ducts Customer satisfaction Customer service culture Innovation	10: 2014/BXD, QCVN	- Complete the project	\checkmark	\checkmark
5	Troducts		QCVN 16: 2011/BXD. (Thuy, 2017)	within the budget;	,	,
				- Complete the project on	\checkmark	\checkmark
				time;	/	
			•	- Process of resolving	\checkmark	V
				customer complaints; - Maintenance procedure;	\checkmark	\checkmark
				- Maintenance procedure; - The attached after-sales	v ./	v ./
				- The attached after-sales services.	v	v
				- Investment in developing	\checkmark	
				new construction	-	
		and		materials;		
		development		- New construction	\checkmark	
		_		method and technology		
				- Saving water in	\checkmark	\checkmark
	Environment and		ISO 14000,	construction and building		
			QCVN02:2009/BXD,	operation;		
			QCVN06:2010/ BXD,	- Land use efficiency;	\checkmark	\checkmark
		Conserve	QCVN 09:2013/	- Minimize construction	\checkmark	\checkmark
4		25	BXD,	waste and energy		
	Resources	resources	QCVN 18:2014/	consumption;	,	,
			BXD.	- Development of	\checkmark	\checkmark
			(Thuy, 2017)	renewable energy and		
				alternative energy,		/
				- Saving resources and	\checkmark	V

				awareness about environmental protection.		
		Environmental Protection		 Recycle and treat waste appropriately, reduce pollutant emissions; Use of environmentally friendly products; 	✓ ✓	✓ ✓
		The impact of		- Provide employment opportunities for local	\checkmark	~
		the project on the	GRI, QCVN 01:2008/BXD, QCVN 03:2012/BXD, QCVN 07:2013/BXD, QCVN 08:2009 /BXD, QCVN 14:2009/ BXD, QCVN 17:2013/BXD. (Thuy, 2017)	communities, - Commitment to protect the local environment;	\checkmark	\checkmark
		community		- Minimize safety hazards to the community;	✓ 	√
5	Social community	Join community activities		 Participate in community support activities, Construction of community welfare facilities, 	√ √	✓ ✓
				- Training human resources for localities.	\checkmark	\checkmark
				Tax rates paid to the State,Compliance with laws and State policies.	✓ ✓	√ √
		Legal records		- Accurate information on credit records, corporate finance, product quality	\checkmark	
	Suppliers and contractors	Suppliers and contractors Suppliers and contractors Suppliers and contractors Suppliers and con repayments and con repayments and con repayments and con repayments and con repayments and con repayments and con repayments con repay repayments con repay repayments con repay repayments con repay repayments con repay repay repayments con repay	GRI, TCXDVN 340:2005, TCVN 5671:2012 System of building codes and standards related to the construction industry, a pre-acceptance test of components, work items, and the whole	- Accuracy of the credit contract compliance;	√	,
6				 Pay on schedule; Strictly comply with commitments with suppliers (partners); 	\checkmark	✓ ✓
				 Level of increase in the number or value of contracts Attachment and 	✓ ✓	
		with partners	project	association shown by the number of new customers introduced	-	

IV.DISCUSSION

Based on the methodology of an overview of the concept of CSR and the application of stakeholder background theory, the study proposed a CSR indicator system at different levels of a construction project. The establishment of an indicator framework will guide all stakeholders to contribute to CSR effectiveness at two different key levels: project phase and enterprise management. In essence, the conceptual framework provides a system for selecting indicators. A conceptual framework embedded in the theory will provide a method to convey the selection and arrangement of CSR issues covered in the assessment. A comprehensive approach on both the enterprise and project levels proposed in this study will provide useful inputs for construction companies to incorporate CSR into their business strategies as well as process management projects. It will enhance the reporting process by having index lists for companies or projects and clarifying the input directly to the CSR index at each level.

V. CONCLUSIONS

Previous studies on CSR show that the CSR conceptual framework is multidimensional and complex. Therefore, CSR measures are also developed in specific ways in each country to ensure harmony between economic development issues but still bring the nuances, customs, and practices of each country. Using the review method of previous

studies, this study refers to the background theory of ^[9] stakeholders to evaluate the CSR effectiveness that construction businesses need to perform according to ^[10] the scope of impact on stakeholders in the role of enterprises and the project. It is this approach that concretizes the factors that affect CSR, thereby detailing the relevant CSR indices based on ^[12] conceptual frameworks as well as measurement methods and guidelines on national standards and Vietnam that enterprises need to implement.

The approach to developing and evaluating these indicators is based on the principle of selecting the most common elements of CSR conceptual models that are widely and publicly applied throughout the world. Different perspectives are unavoidable because CSR concepts can be considered from many aspects such as institutional theory, legal theory ... affecting the effectiveness of construction industry CSR. Moreover, most of the conceptual framework, as well as index measurement methods, reflect the benefits of both tangible and intangible benefits of CSR such as community partnerships, investment in local communities, job creation, and quality of life ... The study contributes to clarifying the relationship as well as the responsibilities of each stakeholder in the implementation and control of CSR implementation of construction enterprises. Make more clear about CSR awareness and practice through building CSR index framework for the construction industry such as legal issues, CSR efficiency as well as CSR obligations of the construction industry with stakeholders. From the perspective of stakeholders, the selection of indicators to meet CSR effectiveness is still limited. The next research direction will focus on more relevant subjects such as competitors, nongovernmental organizations, and state management agencies.

REFERENCES

- AA1000 'AA1000 Accountability Principles Standard 2008', AccountAbility. doi: 978-1-901693-56-0 (2008).
- [2] Barthorpe, S., 'Implementing corporate social responsibility in the UK construction industry', Property Management. doi: 10.1108/02637471011017145. (2010).
- [3] BIAC (2012) Business & Industry Advisory Committee Annual Report. Available at: https://www.businessnz.org.nz/_data/assets/pdf_file/0017/7 2044/BIAC-Annual-Report-2012.pdf.
- Bowen, H.,Social Responsibility of the Businessman, New York: Harper and Row. doi: 10.1177/0007650311419251. (1953).
- [5] Carroll, A. B. 'A Three-Dimensional Conceptual Model of Corporate Performance.', Academy of Management Review. doi: 10.5465/amr.1979.4498296. (1979).
- [6] Carroll, A. B. 'The pyramid of corporate social responsibility: Toward the moral management of organizational stakeholders', Business Horizons. doi: 10.1016/0007-6813(91)90005-G. (1991).
- [7] Clarkson, M. E. A stakeholder framework for analyzing and evaluating corporate social performance, Academy of Management Review. doi: 10.5465/amr.1995.9503271994. (1995).
- [8] Freeman, S. and Cavusgil, S. T. 'Strategic management. A stakeholder approach', Journal of International Marketing. (1984).

- [9] Global_Construction 'A global forecast for the construction industry to 2030', Oxford Economics and Global Construction Perspectives, London. (2015).
- [10] GSO General statistics office of Vietnam. Available at: https://www.gso.gov.vn/Default_en.aspx?tabid=766. (2019).
- [11] KPMG 'The KPMG Survey of Corporate Responsibility Reporting 2013: Executive Summary', Kpmg. doi: www.kpmg.com/sustainability. (2013).
- 12] Leipziger, D. 'Social Accountability 8000', in The Corporate Responsibility Code Book: Third Edition. doi: 10.9774/gleaf.9781783530670_12. (2015).
- [13] Maxwell, J. W., and Decker, C. S. 'Voluntary environmental investment and responsive regulation', Environmental and Resource Economics. doi: 10.1007/s10640-005-4992-z. (2006).
- [14] Mitchell, R. K., Agle, B. R. and Wood, D. J. 'Toward a theory of stakeholder identification and salience: Defining the principle of who and what counts', Academy of Management Review. doi: 10.5465/AMR.1997.9711022105. (1997).
- [15] Moodley, K., Smith, N. and Preece, C. N. 'Stakeholder matrix for ethical relationships in the construction industry', Construction Management and Economics. doi: 10.1080/01446190801965368. (2008).
- [16] O'Connor, M., and Spangenberg, J. H. 'A methodology for CSR reporting: assuring a representative diversity of indicators across stakeholders, scales, sites and performance issues', Journal of Cleaner Production. doi: 10.1016/j.jclepro.2007.08.005. (2008).
- [17] O'Donovan, G. (2002) 'Environmental disclosures in the annual report', Accounting, Auditing & Accountability Journal. doi: 10.1108/09513570210435870.
- [18] Petrovic-Lazarevic, S. 'The development of corporate social responsibility in the Australian construction industry', Construction Management and Economics. doi: 10.1080/01446190701819079. (2008).
- [19] Rhodes, C. 'Construction Industry: Statistics and policy', House of Commons Library. (2015).
- [20] Shen, L. Y. et al. 'A checklist for assessing the sustainability performance of construction projects', Journal of Civil Engineering and Management. doi: 10.1080/13923730.2007.9636447. (2007).
- [21] Silva, R. A. et al. 'Future global mortality from changes in air pollution attributable to climate change', Nature Climate Change. doi: 10.1038/nclimate3354. (2017).
- [22] Székely, F. and Knirsch, M. 'Responsible leadership and corporate social responsibility: Metrics for sustainable performance', European Management Journal. doi: 10.1016/j.emj.2005.10.009. (2005).
- [23] Tam, C. M., Tam, V. W. Y. and Tsui, W. S. 'Green construction assessment for environmental management in the construction industry of Hong Kong', International Journal of Project Management. doi: 10.1016/j.ijproman.2004.03.001. (2004).
- [24] Thuy, T. T. H. 'System of Building codes and Construction standards in Vietnam (in Vietnamese)', Journal of construction science and technology, No2. Available at: http://texdvn.xaydung.gov.vn/.(2017).
- [25] Van Tuan, N. et al. 'Current status of construction and demolition waste management in Vietnam: Challenges and opportunities', International Journal of GEOMATE. doi: 10.21660/2018.52.7194. (2018).
- [26] Turk, A. M. 'The benefits associated with ISO 14001 certification for construction firms: Turkish case', Journal of Cleaner Production. doi: 10.1016/j.jclepro.2008.11.001. (2009).
- [27] WBCSD Water, Energy, and Climate Change: A contribution from the business community, Water. (2009).
- [28] Wu, S. et al. 'Effects of 2000-2050 global change on ozone air quality in the United States', Journal of Geophysical Research-Atmospheres. doi: 10.1029/2007JD008917. (2008).
- [29] Mfon S. Jeremiah, Raphael S. Etim, 'Corporate Social Responsibility, Environmental Sustainability, and Theory of Reasoned Action: An Overview', SSRG International Journal of Economics and Management Studies, 6(5)(2019) 102-112.