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# **Environmental Disclosure: A Step Towards Corporate Transparency and Sustainability**

## Raj Laxmi Barik<sup>1</sup>, A. K. Das Mohapatra<sup>2</sup>

<sup>1</sup>Research Scholar, Department of Business Administration, Sambalpur University, Jyoti Vihar, Sambalpur, Odisha

<sup>2</sup>Former Vice-Chancellor, Odisha State Open University, Sambalpur, Odisha and Retired Professor, Department of Business Administration, Sambalpur University, Jyoti Vihar, Sambalpur, Odisha

#### **Abstract**

In the face of escalating environmental challenges and rising stakeholder expectations, environmental disclosure has emerged as a vital component of corporate transparency and accountability. The present study analysis the conceptual background of environmental disclosure, and describe various theories such as stakeholder, legitimacy, agency and institutional theory to explain the base for environmental disclosure. The paper also examines the key factors of environmental disclosure, including regulatory mandates, investor expectations, corporate governance practices, and global sustainability reporting standards. Despite its growing relevance, environmental disclosure faces challenges such as lack of standardization, assurance concerns, and reporting inertia in developing economies like India. The paper conclude that environmental disclosure plays a strategic role for both transparency and sustainable development.

Keywords: Environmental Disclosure, Sustainable Development, Corporate Transparency

### 1. Introduction

In recent decades, escalating environmental concerns and increasing awareness of climate change have significantly transformed the corporate responsibility. Stakeholders including investors, regulators, consumers, and civil society now expect businesses to operate transparently and responsibly, particularly with regard to their environmental impacts (Gray et al., 1995). In this context, environmental disclosure has emerged as a crucial mechanism for communicating a company's environmental policies, performance, and risks, thereby enhancing corporate transparency and contributing to long-term sustainability (Clarkson et al., 2008).

Environmental disclosure refers to the voluntary or mandatory reporting of information related to a firm's environmental performance, such as greenhouse gas emissions, resource consumption, pollution levels, waste management practices, and compliance with environmental regulations (Global Reporting Initiative GRI, 2021). These disclosures are often integrated within sustainability reports, ESG (Environmental, Social, and Governance) reports, or corporate annual reports, and are guided by frameworks such as the Global Reporting Indicators (GRI) Standards, Task Force on Climate-related Financial Disclosures (TCFD), and Security Exchange Board of India mandated Business Responsibility and Sustainability Report (BRSR).



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Despite various initiatives, environmental disclosure continues to face challenges such as lack of standardization, inconsistent reporting practices, and limited assurance mechanisms (Hahn & Kühnen, 2013). These issues are especially found in developing economies, where regulatory enforcement may be weaker and awareness among corporate actors relatively low (Chatterjee & Mir, 2008).

This article aims to provide a conceptual and theoretical understanding of environmental disclosure as a strategic tool for enhancing corporate transparency and sustainability. It focuses on key theories such as legitimacy theory, stakeholder theory, agency and institutional theory to explain why firms disclose environmental information. Furthermore, it explores the factors, challenges, and concludes with implications for policymakers, practitioners, and future research.

#### 2. Review of literature

Various authors have developed and applied Environmental Disclosure Index (EDI) by incorporating a wide range of indicators that reflect the scope, quality, and depth of environmental information disclosed by companies presented in Table 1.1.

**Table 1.1: Summary of Key Studies on Environmental Disclosure Indicators** 

Author(s)	Title of the	Objectives	EDI	
	Study			
Ahmad	Environmental	To examine the	1.	Expenditure in Energy
(2012)	accounting and	position of	2.	Waste Management
	reporting	environmental	3.	Tree Plantation
	practices:	information in the	4.	<b>Environmental Protection</b>
	Significance	Annual Reports	5.	Future Strategy
	and issues: A		6.	Safety Related Measure
	case from			
	Bangladeshi			
	companies			
Al –	The relations	To analyse the	1.	the total amount of toxic
Tuwaijri et	among	interrelations among		waste generated and
al. (2004)	environmental	environmental		transferred or recycled
	disclosure,	disclosure,	2.	financial penalties resulting
	environmental	environmental		from violations of 10 federal
	performance	performance and		environ mental laws
	and economic	economic performance	3.	Potential Responsible Party
	performance: a			(PRP) designation for the
	simultaneous			cleanup responsibility of
	equation			hazardous-waste sites
	approach		4.	The occurrence of reported
				oil and chemical spills
Brammer	Voluntary	To examines the	1.	Disclosure of an
& Pavelin	Environmental	patterns in voluntary		environmental policy
(2006)	Disclosure by	environmental		
		disclosures made by a		



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	large UK	sample of large UK	2. Existence of board-level	
	companies	companies.	responsibility for	
			environmental matters	
			3. The description of	
			environmental initiatives	
			4. Reporting on environmental	
			improvements	
			5. Setting of environmental	
			targets	
			6. The presence of an	
			environmental audit or	
			assessment.	
Cappuyns	Economic and	To evaluate the quality	1. Energy	
&	Environmental	and completeness of	2. Materials	
Ceulemans	Performance	economic and	3. Water	
(2015)	indicators in	environmental	4. Emissions, Effluents, and	
	Belgian GRI	performance	Waste	
	Reports	indicators	5. Biodiversity	
			6. Emissions, Effluents, and	
			Waste	
Chakladar	A study of	•	1. Environmental Initiatives	
& Gulati	corporate	Environmental	2. Environmental	
(2015)	Environmental	Disclosure Practices of		
	Disclosure	Companies Doing	3. Environmental	
	practices of	Business in India	Management Framework	
	companies		4. Environmental Disclosure	
	doing business		5. Environmental Expenditure	
	in India		6. Products and Technologies	
			Contributing to	
			Environment	
Clarkson	Revisiting the	To examine relation	Hard Disclosure	
et al.	relation	between	1. Governance structure and	
(2008)	between	environmental	Management System	
	environmental	performance and	2. Credibility	
	performance	environmental	3. Environmental Performance	
	and	disclosure	Indicators	
	environmental		4. Environmental Spending	
	disclosure: An		Soft Disclosure	
	Empirical		5. Vision and Strategy Claims	
	Analysis		6. Environmental Profile	
			7. Environmental Initiative	



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## 3. Conceptual Framework of Environmental Disclosure

Environmental disclosure refers to the communication of information regarding firm's environmental performance, practices, and policies to its stakeholders. This concept encompasses both qualitative and quantitative disclosures about environmental aspects such as energy usage, emissions, waste management, environmental compliance, and eco-innovation (Clarkson et al., 2008; GRI, 2021). It serves as a bridge between a corporation and its stakeholders, offering transparency and building legitimacy in the eyes of the public.

Environmental disclosure can be classified as voluntary or mandatory, depending on the regulatory context. Voluntary disclosure often stems from internal motivations such as corporate values, reputational benefits, or stakeholder pressure (Cormier & Gordon, 2001). Mandatory disclosure, on the other hand, is imposed by legal frameworks, such as the EU Non-Financial Reporting Directive (NFRD), the U.S. SEC's climate related disclosure rules, India's SEBI BRSR framework.

#### 4. Theories of Environmental Disclosure

The following theories provide a conceptual foundation for understanding why firms disclose environmental information and how such disclosures contribute to building legitimacy, trust, and long-term value.

## 4.1 Legitimacy Theory

Legitimacy theory reflects that organizations seek to ensure that their operations are perceived as legitimate by aligning with societal norms and expectations (Suchman, 1995). Environmental disclosure is a strategic response to legitimacy pressures, especially when a firm's operations pose environmental risks or when public scrutiny is high (Deegan, 2002). Through environmental reporting, firms attempt to bridge the legitimacy gap and demonstrate their commitment to sustainable practices and regulatory compliance.

## 4.2 Stakeholder Theory

Stakeholder theory emphasizes that businesses have a responsibility to multiple stakeholders such as shareholders, customers, employees, regulators, and the broader community (Freeman, 1984). Environmental disclosure is used as a tool to communicate with and respond to the interests of these diverse groups. Transparent reporting helps firms align their strategies with stakeholder concerns and fosters trust, thereby improving stakeholder relationships and long-term performance (Roberts, 1992).

## 4.3 Institutional Theory

Institutional theory suggests that organizations are influenced by the institutional environment rules, norms, and practices in which they operate (DiMaggio & Powell, 1983). Firms may adopt environmental disclosure practices to conform to institutional pressures such as regulations, industry standards. Over time, such practices become institutionalized, creating legitimacy and competitive parity (Bansal, 2005).

#### 4.4 Agency Theory

Agency theory addresses the conflict of interest between managers (agents) and shareholders (principals) due to information asymmetry (Jensen & Meckling, 1976). Environmental disclosure serves as a monitoring mechanism that reduces this asymmetry and enhances managerial accountability. By voluntarily disclosing environmental performance, managers signal their competence and reduce the risk of agency costs (Cormier et al., 2011).



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## 5. Factors influencing Environmental Disclosure

Environmental disclosure is influenced by both internal and external factors that motivate or compel companies to report on their environmental performance. The following are the key factors:

## Regulatory and Legal Requirements

One of the most important factors of environmental disclosure is the presence of mandatory regulatory frameworks. For instance, in India, the Securities and Exchange Board of India (SEBI) has mandated the Business Responsibility and Sustainability Reporting (BRSR) framework for the top 1,000 listed entities (SEBI, 2021). Globally, the EU Non-Financial Reporting Directive (NFRD) and the US SEC's climate-related proposals reflect growing regulatory involvement.

## **Stakeholder Pressure**

Stakeholders such as investors, customers, employees, civil society, and non-governmental organizations (NGOs) exert significant influence on corporate disclosure decisions (Freeman, 1984; Roberts, 1992). As stakeholder awareness about environmental issues grows, companies face greater pressure to disclose accurate and relevant environmental information to maintain their legitimacy and social license to operate.

## **Market and Investor Expectations**

Firms are motivated to disclose environmental information to attract socially responsible investors and improve their market valuation (Dhaliwal et al., 2011). Transparent environmental reporting reduces information asymmetry and is often associated with enhanced investor confidence, lower capital costs, and improved stock performance.

## **Corporate Governance and Board Characteristics**

Companies with strong corporate governance frameworks such as independent boards, sustainability committees, and CEO duality separation tend to disclose more environmental information (Haniffa & Cooke, 2005). Governance mechanisms promote transparency and align corporate practices with stakeholder interests.

## **Industry Type and Environmental Sensitivity**

Firms in environmentally sensitive sectors (e.g., oil & gas, mining, chemicals, textiles) face greater scrutiny and therefore tend to disclose more comprehensive environmental data (Clarkson et al., 2008).

#### **Reputation and Competitive Advantage**

Environmental disclosure can be used strategically to build a positive public image, improve brand value, and differentiate the company in the marketplace (Brammer & Pavelin, 2006).

## 6. Challenges of Environmental Disclosure

Despite growing awareness and regulatory efforts, environmental disclosure continues to face several challenges, particularly in developing economies. These challenges stem from institutional, technical, and organizational constraints that hinder the quality, consistency, and credibility of disclosed information.

- 1. Lack of Standardization (KPMG, 2022).
- 2. Voluntary Nature of Disclosure (Chatterjee & Mir, 2008; SEBI, 2021)
- 3. Limited Awareness and Expertise (Pramanik, Shil & Das, 2007)
- 4. Greenwashing (Delmas & Burbano, 2011)
- 5. Measurement and Valuation Issues (Clarkson et al., 2008)
- 6. High Cost of Reporting (Jain & De Mello, 2020)



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#### 7. Conclusion

In the contemporary business environment, transparency is no longer a voluntary ethical choice it is a strategic imperative. Environmental disclosure serves as a vital tool for enhancing corporate transparency by publicly communicating a firm's environmental performance, sustainability initiatives, and compliance with environmental regulations (Adams, 2004; Hahn & Kühnen, 2013). This transparency not only reduces information asymmetry between firms and their stakeholders but also strengthens trust, accountability, and long-term stakeholder relationships.

Environmental disclosure plays a vital role in promoting corporate accountability, enhancing transparency, and guiding stakeholders toward informed decision-making. However, despite growing global emphasis on sustainability and ESG integration, several challenges continue to hinder the effectiveness of environmental reporting. These include lack of standardization, voluntary compliance, limited awareness, weak regulatory enforcement, and risks of greenwashing.

For environmental disclosure to become a robust and reliable component of corporate reporting, it is essential to strengthen regulatory frameworks, promote the adoption of globally recognized standards, and build organizational capacity. Additionally, active stakeholder engagement and the use of digital and AI-based tools can help overcome information asymmetries and ensure that environmental disclosures are credible, comparable, and actionable. Addressing these challenges will not only improve the quality of reporting but also support broader goals of environmental sustainability and responsible corporate governance.

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