EMPLOYEE AWARENESS OF GREEN CORPORATE IDENTITY IN MANUFACTURING COMPANIES IN KERALA

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Abstract:

Green Corporate Identity (GCI) is the strategically designed unique identity of a company which communicates its environmental commitments to its stakeholders. The purpose of the study was to investigate the employee awareness of the Green Corporate Identity in Manufacturing Companies in Kerala. The study examined theawareness of employees on seven components of GCI by gathering data from employees of a leading Manufacturing company with a Green policy. The data was analysed using Multivariate Analysis of Variance to understand the extent of employees' awareness of GCI. This study identified the need to formulate strategies to create employees' awareness of GCI and its factors to achieve the environmental commitment of the company. This study explored the emerging concept of Green corporate Identity in the Indian context to address the relevance of creating a Green identity to develop environmentally conscious companies.

KeyTerms: Green Corporate Identity, Green Corporate Communication, Green Visual Communication, Green Corporate Behaviour

Introduction

Business organizations across the globe have been en route to change in their business strategies as the focus has shifted from traditional profit-making strategies to corporate sustainability strategies. Hence, the recent challenge in the business world is to achieve competitive advantage by finding innovative ways to conduct business with energy-efficient and environment-friendly processes, products, technologies and waste management. India has pledged a more than 45% reduction in the "carbon intensity" of its economy by 2030. Hence, the Greening of Manufacturing Industries is of utmost importance. Green Corporate Identity (GCI) is the perceptions of stakeholders including shareholders, employees, customers, and the community on every aspect of the environmental concern of that particular company. (Shrivastava, 1994; Green et al 2000; Harris, & Crane, 2002).

Employees play a vital role in the efficient functioning of any company and its achievement of organisational objectives. Every employee ought to be aware of the need for Greening; green vision, green mission, green policies, green methods, green products/ services, and green goals of their company. Hence an employee with well understanding of his company's Green Corporate Identity can efficiently contribute to the achievement of its environmental goals. As GCI is a relatively new concept in the Indian context, this study aims to understand the employees awareness of GCI which is characterized by eco-friendly, energy-efficient unique values embedded throughout the organization which are communicated to its stakeholders through its mission, vision, goals, structure, symbols, culture, policies, processes, products and services in the Indian manufacturing sector

Literature review

Green Corporate Identity (GCI)

The Green Corporate Identity is a term developed from the Corporate Identity by focusing on managing the company's identity to represent the environmental concerns which can successfully contribute to the Greening of a company through environment-friendly employee performance and commitment, operational efficiency, involvement of stakeholders, the interest of customers, Green corporate image and Green corporate reputation, and competitive advantage (Onputtha et al 2020). Definition of Green Corporate Identity proposed in this paper is 'the strategically designed unique

identity or status of a company to be perceived by its stakeholders based on its Green initiatives or environmental commitments'. When a company presents its GCI, entire stakeholders will value the

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company for its efforts in providing environment-friendly products and services in creation of the services in creation of the service of the company for its efforts in providing environment increasing customer loyalty ultimately lead healthy, safe, sustainable environment and thereby increasing to make a company distinctive lead healthy, safe, sustainable environment and mercoy more a company distinctive by the competitive advantages. Green Corporate Identity aims to make a company distinctive by the competitive advantages. differentiating itself from competitors in terms of its environmental commitments.

Components of GCI

According to the Corporate Identity Mix or Program, corporate identity can be studied by for on its components (Onputtha et al 2020). Green Corporate Identity comprises seven dimensional di dimensional di dimensional dimensiona dimensional dimensional dim Green corporate communication, Green corporate visual identity, Green corporate culture, employee behaviour, Green policy, Green forces and drivers, and Green products and se quality. (Onputtha and Siriwichai, 2021). Green Corporate Communication refers to how company communicates its environmental concerns and commitments to its stakeholders (Me and Jenkins, 2002), through a clearly presented Vision statement, Mission statement, com website, company App, news bulletins and press releases. Green Visual Identity can be refer as how a company visualizes its environmental commitment to its stakeholders (Melewar Jenkins, 2002) through product, location, vehicle, print and other media. Elements of Green V Identity include naming, logo, colour palette, corporate font, business card, letterhead, enve info-graphs, symbols, graphic designs, architecture, office layout and typography. Green Com Culture refers to how a company manages its corporate culture, and values in terms of environmental commitments. Green Corporate Behaviour refers to how the organization man corporate behaviour in terms of its environmental commitment (Melewar and Jenkins, 2002). level of understanding of Green concepts and its working knowledgedictate in-role and extra-Green behaviourof employees (Norton et al., 2014; Yang et al., 2019) leading to the suc management of GCI. The Green Corporate Drivers include public opinion, shareholder value, reduction, industry leaders, and environmental management legislations. Green Comp Motivating Factors include regulatory mandates, economic advantages, reduced waste treatment disposal costs, conservation of energy, water, and raw materials, product collect-back syst supply chain requirements, corporate image and employee satisfaction. Other studies also sug that there are other external forces like industrial involvers, internationalisation, technolog innovations, regulatory factors, and society (Alhamali (2019), Chidcho&Pianthong (2020). As organization is in constant interaction with its environment, it must respond in accordance with changing environment perspective of suppliers and consumers (Green et al (2000). Green pro and service quality are essential as these can create customer satisfaction and log (Balmer&Stotvig, 1997; Melewar& Wooldridge, 2001).

Objectives of the study

To analyse the employee awareness on Green Corporate Identity in the manufacturing companie Kerala

To assess the awareness of employees on all the seven constituents of GCI in the manufactu companies in Kerala

Methodology of the study

The study was descriptive and analytical in nature based on the secondary and the primary Primary data collected through a well-structured questionnaire after an extensive review literature and discussions with experts in the field. The questionnaire was finalized after the study and the Cronbach's Alpha test was used to prove the internal consistency of statements with a seven-point scale.

Sample Distribution

Even though the company consists of 9 departments, major departments playing vital role in manufacturing, process/product development and marketing of the products were selected research.; Production Department, Materials Department together with maintenance Departme (as they work together), Research & Development Department, Marketing department. Production department with its six subunits; a Mineral separation unit, an Acid regeneration

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an Oxygen plant, an Ilmenite beneficiation plant, a Pigment production plant, Utility section works on the manufacturing with the help of Materials and Maintenance departments. The Research and Development department has been working on environment-friendly projects and other Green initiatives. The marketing department markets their products. A total of 284 executives work in the selected departments(excluding casual workers, night shift workers, employees on leave). Cochrane's sample calculation formula was used to find the required sample size.

p = 0.5 and hence q = 1-0.5 = 0.5; e = 0.05; z = 1.96

 $=((1.96)2 (0.5(1-0.5))/(0.05)^{2}=384$

Were, n0 = sample size, z = critical value of desired confidence level, p = estimated proportion of an attribute that is present in the population, q = 1-p, e = desired level of precision

Sample Size Calculation of Factors

Minimum Sample size according to Cochran's sampling calculation method =384 Required sample size from total population (284)

RS= (SS \times P) / (SS+P-1), RS= Required Sample Size, SS= Sample Size (Minimum)=384, P=population (284); RS= (384*284) / (384+284-1) = RS= 164

Then the population was proportionally distributed among selected department and a simple random (Lottery Method) sampling method was used to select the respondents. Sample distribution table is shown below:

SL. No.	Departments	TP	P	SS
1	Manufacturing Centre	97	0.34	56
2	Materials and Maintenance	79	0.28	46
3	Research and Development	52	0.18	30
4	Marketing	56	0.20	32
	Total	284	1.00	164

Pilot Study

A pilot study was conducted among 20employees from each selected departments

Table 2: Internal Consistency of Questionnaire

Sl. No.	Factors	No. of Items	Cronbach's Alpha
1	Green Corporate Communication	8	.874
2	Green Visual Identity	4	.984
3	Green Corporate Behaviour	8	.899
4	Green Corporate Culture	16	.801
5	Green Corporate Policy	14	.869
6	Green Corporate Forces & Drives	9	.881
7	Green Products and Services Quality	16	.901
		75 Items	.884

Source: KMML

Table 2 shows the internal consistency of selected factors and statements used in the questionnaire with a sufficient Cronbach's Alpha value of more than .80. Thus all the statements and the scale used in the questionnaire were proved to be appropriate to find out the employee awareness of Green Corporate Identity.

Table 3: Communalities from factor analysis

Table 5. Ce		O Cada	FL	Q. Code	FL	O. Code	FL
Q. Code	FL	Q. Code			T L	Q. Code	
GCI.2.1	.831	GCI.5.1	.801	GCI6.1	.793	GCI.8.1	.719
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GCI.2.2	.932	GCI.5.2	.955	GCI.6.2	.832	GCI.8.2
GCI.2.3	.923	GCI.5.3	.955	GCI.6.3	.902	GCI.8.3
GCI.2.4	.894	GCI.5.4	.955	GCI.6.4	.877	GCI8.4
GCI.2.5	.794	GCL5.5	.955	GCI.6.5	.853	GCI.8.5
GCI.2.6	.869	GCI.5.6	.955	GCI.6.6	.868	GCI.8.6
GCI.2.7	.833	GCI.5.7	.987	GCI.6.7	.822	GCI.8.7
GCI.2.8	.785	GCL5.8	.987	GCI.6.8	.711	GCI.8.8
GCI.3.1	.952	GCI.5.9	.987	GCI.6.9	.834	GCI.8,9
GCI.3.2	.958	GCI.5.10	.987	GCI.6.10	.889	GCI.8.10
GCI.3.3	.957	GCI.5.11	.987	GCI.6.11	.777	GCI.8.11
GCI.3.4	.721	GCI.5.12	.987	GCI.6.12	.990	GCI.8.12
GCI.4.1	.813	GCI.5.13	.987	GCI.6.13	.769	GCI8.13
GCI.4.2	.976	GCI5.14	.987	GCI.6.14	.821	GCI.8.14
GCI.4.3	.976	GCI5.15	.987	GCI7.1	.959	GCI.8.15
GCI.4.4	.767	GCI.5.16	.987	GCI7.2	.883	GCI.8.16
GCI.4.5	.984	Factor One=78 p	er	GCI.7.3	.883	
GCI.4.6	.984	cent		GCI.7.4	.906	
GCI.4.7	.984	Factor Two=58 p	ber	GCI.7.5	.818	
GCI.4.8	.984	cent Factor Three=82	ner	GCI.7.6	.914	
		cent	per	GCI.7.7	.816	
		Factor Four=76 p	ber	GCI.7.8	.816	
		cent		GCI.7.9	.816	
		Factor Five= 72 p	ber			
		Factor Six=82 pe	r	•		
		cent				
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		Factor Seven=68	per		harautinos	

Source: KMML

Table: 3 shows that all the variables have more than .70 factor loading and each factor has than 60 per cent variance except the second factor showing a 58 per cent variance. Hence, it c inferred that these variables will predict the accurate result of employee awareness of C orporate Identity. One- sample t-test was performed to find out the statistical significant respondents' awareness of Green Corporate Identity. The study was formulated with two Hypotheses;

H0: There is no significant evidence the executives are awareof Green Corporate Identity

H₀: Executives' awareness of Green Corporate Identity is not significantly different across departments.

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6 6100	and the state of t	The second second second second second	p-value
6.6189	.68812	11.518	.000
4.5838	1.13683	6.577	.000
5,1860	.63820	3.732	.000
5.5941	1.35167	5.629	.000
5.1855	1.74759	3,360	.000
6.1104	.88927	15.991	.000
4.8829	1.01636	6.084	.000
	1999 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 1 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199	Status -	
	6.1104	6.1104 .88927	6.1104 .88927 15.991

Table: 4 indicates that the mean score is higher than the test value of 4.2, and the result is statistically significant regarding all the factors as the p-value is lesser at 5 per cent significant level. Hence, it can be inferred that there is significant evidence that these executives are aware of green corporate identity. Hence, the null hypothesis stands rejected

H0: There is no significant evidence the executives are aware of Green Corporate Identity Further, the study was processed the Multivariate test to find out the difference in the awareness of employees across the selected departments.

Green Corporate Identity Factors	Corporate Iden Test	Value	F	H-df	E-df	P
Green Corporate Communication	Wilks' Lambda	.946	.357	24.000	444.348	.998
Green Visual Identity	Wilks' Lambda	.970	.396	12.000	415.674	.965
Green Corporate Behaviour	Wilks' Lambda	.971	.382	12.000	415.674	.970
Green Corporate Culture	Wilks' Lambda	.940	1.094	9.000	379.814	.366
Green Corporate Policy	Wilks' Lambda	.921	.867	15.000	431.049	.602
Green Corporate Forces & Drives	Wilks' Lambda	.898	.932	18,000	433.235	.540
Green Products and Services Quality	Wilks' Lambda	.852	.498	48.000	432,060	.998
Source: KMML					A State	

Table: 5 indicate that all the factors are not statistically significant as the p-values of all the factors are greater at a 5 per cent significant level. Hence, it can be inferred that all the department executives having same level of awareness of Green Corporate Identity. Hence, the null hypothesis stand accepted;

H₀:Executives' awareness ofGreen Corporate Identity is not significantly different across the departments.

Green Corporate	Manufa	And Address of the Contraction of the Contraction of the	nal Scaling Mater		R&		Marketing	
Identity Factors	D1	D2	D1	D2	D1	D2	D1	D2
Communication	.1434	.3178	.0333	.2094			.0610	.1430
visual Identity		A DESCRIPTION OF THE OWNER OF THE					.7421	
Behaviour			A Party of the		.4742	.1204		- Andrew
Culture	Cally Call		States 1		A THE REAL PROPERTY AND	AL AND	1.2838	.0093
Policy	3.0802	.0246	3.0920	.0418			Service and a	
Forces & Drives		除水	San Sont All				.7669	.8259
Juality			Same and			And the second second		
Two dimensions po	sitive coef	ficient val	ues are sho	own in the	table, neg	ative value	es were ex	cluded

A multi-dimensional scaling technique was applied to assess the executives' awareness of factors of Green Corporate Identity with two-dimension perspective. Each of the department tested with multidimensional scaling techniques. It was observed that the executives of Manufacturing and materials departments have high level of awareness of Green Corporate (D1=.1434, D2.3178; D1=.0333, D2=.2094), and Green Corporate (D1=3.0802, D2=.0246; D1=3.0920, D2=.0418). The Research and Development Executives high level of awareness of Green Corporate Behaviour factor (D1=.4742, D2=.1204), executive high level of awareness of Green Corporate Communication (D1=.1430), Visual Identity (D1=.7421, D2=.1005), Green Corporate Communicate (D1=.2838, D2=.0093), and Green Corporate Forces & Drives (D1=.7669, D2=.8259)

Major findings of the study

Based on the analysis of seven factors of Green Corporate Identity, the study shows that executive are aware of the factors of GCI but their level of understanding of each factors of GCI varies also observed that the level of awareness of GCI and its factors are different across department **Conclusion**

The study shows that executives are aware of the factors of Green corporate Identity of company. This study points out the necessity to formulate strategies to create all employees a of Green Corporate Identity and the factors of GCI in the manufacturing sector in India. Community devise plans to effectively establish their Green Corporate Identity to achieve compet advantages. Apart from providing Green guidelines, companies should provide awareness prog to their employees across the hierarchy to ascertain the relevance of GCI in achieving environmental goals. The awareness of employees on their company's Green Corporate Identity decisive factor in the effective implementation of Government's guideline on sustainability.

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