

# INTERNATIONAL JOURNAL OF RESEARCH IN COMPUTER APPLICATION & MANAGEMENT

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**IMPLEMENTATION OF GREEN SUPPLY CHAIN MANAGEMENT: A REVIEW AND RESEARCH DIRECTION****DR. S. SARAVANAN****HEAD****DEPARTMENT OF MANAGEMENT STUDIES****ANNA UNIVERSITY (BIT CAMPUS)****TIRUCHIRAPPALLI****A. MADHUMITHA RANI****STUDENT****DEPARTMENT OF MANAGEMENT STUDIES****ANNA UNIVERSITY (BIT CAMPUS)****TIRUCHIRAPPALLI****ABSTRACT**

Green supply chain management is becoming increasingly important for Indian manufacturers to improve both environmental and economic performance simultaneously throughout the supply chain process. The purpose of this paper is to briefly review the recent literatures of green supply chain management implementation discussing the GSCM practices, pressures and performance of various manufacturing and service industries in most of the developing and certain developed countries.

**KEYWORDS**

green supply chain management, environment.

**INTRODUCTION**

The major problem which mankind faces every day is environmental pollution, the excess emission of toxic gases released from the manufacturing industries. In order to overcome this problem and to reduce environmental pollution, the manufacturing industries must concentrate on the implementation of Green supply chain management practices. Samir K. Srivastava (2007) defined the green supply chain management as "Integrating environmental thinking into supply chain management, including product design, material sourcing and selection, manufacturing processes, delivery of the final product to the consumers and end-of-life management of the product after its useful life". According to India Brand Equity Foundation report India stood in second place in the global manufacturing competitiveness survey conducted in the year 2010 and stood ahead of several developed countries. It is a newly emerging concept gaining popular among manufacturers. Hence, Green management is employed in industries to achieve a pollution and hazard-free environment.

The purpose of this paper is to discuss an overview of the implementation practices of GSCM literature in developing countries such as China, India, Thailand, Malaysia and developed countries such as Korea, Germany. The study also is performed to determine the new research area in analysing the scope of adoption of GSCM in small manufacturing industries at Tiruchirappalli.

**RESEARCH BACKGROUND**

An environmentally conscious supply chain called as green supply chain is a new concept appearing in recent literatures. Environmentally-responsible production and consumption is considered as an essential part in improving environmental quality.

**GREEN SUPPLY CHAIN MANAGEMENT IN INDIAN INDUSTRIES**

Ninlawan *et al.* studied 'The implementation of Green supply chain management practices in Electronics industry including GSCM practices, performance and pressures.

Goshen Stephen, E. Ravi Kumar, (2015) aimed to survey current green activities in automobile parts' manufacturers in India about green procurement, green manufacturing, green distribution and reverse logistics. Finally, they suggested to maintain a better collaboration among important stakeholders to obtain efficient and effective green supply chain practice.

Balaji M, V. Velmurugan, Manikanda Prasath K, (2014) identified the common barriers in implementing green practices in typical Indian foundries with concentrated interests in creating green supply chains for future.

Sarbjit Singh, Arvind Bhardwaj, (2013) Studied the various activities involved in the supply chain processes of the various Indian manufacturing industries and finds how much eco-friendly they are in their logistics as well as supply chain activities by taking into account from the procurement of the raw material to the transportation of the end product.

B. L. Lakshmi Meera, Dr. P. Chitramani, (2014) studied Environmental Sustainability through green supply chain management practices among Indian Manufacturing firms with special reference to Tamilnadu and projected the relationship between green supply chain management practices and environmental performance of manufacturing industries.

Sazzad Parwez, (2014) studied Food supply chain Management in Indian agriculture: Issues, opportunities and further research which focused the most important aspects of agriculture supply chain issues and also gave suggestions to improve efficiency at different levels in the agriculture supply chain.

Pandya Amit R. & Mavani Pratik M., (2012) study investigated the green supply chain management practices adopted by the pharmaceutical industry in Ankleshwar. The relationship between green supply chain management practices with environmental performance, operational performance and financial performance is studied.

**GREEN SUPPLY CHAIN MANAGEMENT IN INDUSTRIES OF OTHER COUNTRIES**

Yan Li, (2011) The paper aimed to examine the adoption levels of green supply chain practices in China. Green supply chain management is emerging to be an important approach for Chinese enterprises to improve performance, possibly on both economic and environmental dimensions. Based upon a database of over 128 manufacturing facilities in China, this paper explored performance measurement for GSCM. The results showed that GSCM was strongly complementary to other advanced management practices, and contributed to improving environmental performance. Manufacturers in our samples have initiated three GSCM practices, Top management support, Product testing report, Green purchasing. The analytical results demonstrate that top management support is the most important item for the successful implementation of GSCM practice in China. The results of this investigation show that practicing green purchasing can ensure product environmental quality.

Quinghua Zhu, Joseph Sarkis, Yong Geng, (2005) aimed to evaluate and describe GSCM drivers, practices and performance among various Chinese manufacturing organizations. An exploratory factor analysis was conducted to derive groupings of GSCM pressures, practices and performance. Chinese enterprises highlights their exporting philosophies by pursuing such international organizational standard as ISO9000 serial and ISO14001 certification.

Fengfei Zhou, (2009) studied the core contents that textile and apparel enterprises implemented green supply chain management. Verena Hauschildt and Birgit Schulze-Ehlers, (2014) analyzed the relationship between sustainability views, drivers and barriers and concrete procurement practices for sustainability in the German food service industry.

Michael Kariuki Nderitu, Dr.Karanja Ngugi, (2014) established the contribution of green procurement concepts to performance of the East African Breweries Limited (EABL). The study recommended that organizations should have competent professional workforce, extensive investment in Information and Communication Technology (ICT) infrastructure, systems of supplier management and strategic investment approach to Green Procurement in order to realize the positive effects of green procurement.

TABLE 1: PREVIOUS STUDIES ON GSCM IN INDIAN INDUSTRIES

JOURNAL NAME	TITLE/AUTHOR	DISCUSSIONS	VARIABLES
International Journal of Research in Engineering and Technology	Barriers In Green Supply Chain Management: An Indian Foundry Perspective  Balaji V.Velmurugan Manikanda PrasathK	Identified the common barriers in implementing green practices in typical Indian foundries. The barriers stated are drawn through literature reviews. With the help of Interpretive Structural Modeling(ISM) technique, the barriers are classified and prioritized	Lack of government regulation and legislation,lack of knowledge and experience, cost of implementation, lack of acceptance of advancement in new technology, lack of top level management commitment, lack of understanding among supply chain stakeholders, lack of management initiatives for transport, market competition and uncertainty and logistics, financial implications and lack of training in GSCM
International Journal of Innovative Research in Science, Engineering and Technology	The Implementation of Green Supply Chain Management Practices in Automobile Industry  Goshen Stephen, E. Ravi Kumar	Aimed to survey current green activities in automobile parts' manufacturers in India. Few manufacturers are case studied who provided in-depth interview about green activities. Finally they suggested to maintain a better collaboration among important stakeholders to obtain efficient and effective green supply chain practice	<u>Green procurement</u> Supplier selection Reduce, Reuse, Recycle <u>Green manufacturing</u> Hazardous substance control, Energy-efficient technology Waste minimization <u>Green Distribution</u> Green logistics Green packaging <u>Reverse logistics</u> Final treatment Disassembly Waste collectors
International Journal of Engineering, Business and Enterprise Applications	Current Status of Green Supply Chain Practices and Initiatives in the Indian SMEs: An Exploratory Study  Sarabjit Singh, Arvind Bhardwaj	Studied the various activities involved in the supply chain processes of the various Indian manufacturing industries and finds how much eco-friendly in logistics and supply chain activities. Their performance are analyzed with the help of crucial performance indicators and their sub-indicators.	Focused on Green procurement initiatives, Green manufacturing initiatives, Green warehousing and distribution initiatives and Green transportation initiatives
International Journal of Advanced Engineering Research and Studies	Implementation of Green Supply Chain Management in Steel Industries in Chhattisgarh  Rajesh Kumar, Shiena Shekhar	Studied the level of implementation of green supplychain management and suggest the mode of action for a green environment and also for increasing profitability. It has been observed that that the implementation of GSCM in the steel industries in the state of Chhattisgarh is still in primitive stage except for a few manufacturers.	The study concentrated on Green sourcing and procurement, Green productions and manufacturing, Green warehousing and distribution, Green transportation focused initiatives
International Journal of Computational Engineering & Management	Study of Green Supply Chain Management in the Indian Manufacturing Industries: A Literature Review cum an Analytical Approach for the measurement of performance  Ashish Kumar Bhateja, Rajesh Babbar, Sarbjit Singh, Anish Sachdeva	Aimed to study the various activities of the supply chain processes of the various Indian manufacturing industries including both Small Manufacturing Enterprises and Large Scale Industries and finds the percentage of green factor involved in their supply chain activities from the procurement of raw material to the transportation of the final product	The major six supply chain activities include 1.Green sourcing and procurement, 2.Green manufacturing, 3.Green warehousing, 4.Green distribution, 5.Green packaging, 6.Green transportation
International Journal of Engineering and Advanced Technology	Overview of Green Supply Chain Management: Operation and Environmental Impact at Different Stages of the Supply Chain  Rajesh Kumar, Rituraj Chandrakar	The paper emphasizes the application of supply chain management and added the green component so as to insist the need of environment friendly systems. Also provided reasons for GSCM to be important measures towards conservation of environment.	The factors discussed are GSCM practices, External GSCM relationship factors, Eco-design, Investment recovery, Organizational learning, Management support and commitment,
Journal of Industrial Engineering and Management	Barriers to implement green supply chain management in automobile industry using interpretive structural modeling technique-An Indian perspective  Sunil Luthra, Vinod Kumar, Sanjay Kumar, Abid Haleem	Green supply Chain Management has been identified as an approach for improving performance of the processes and products according to the requirements of environmental regulations. Interpretive Structural Modeling (ISM) has been used for finding contextual relationships among various barriers to implement GSCM in automobile industry.	Lack of IT implementation, Resistance to technology advancement adoption, Lack of organizational encouragement, Poor quality of human resources, Market competition and uncertainty, Lack of government support system, Lack of implementing green practices, Lack of top management commitment, Cost implications, Supplier reluctance to change towards GSCM, Unawareness of customers

International Journal of Conceptions on Management and Social Sciences	Green supply chain management and environmental sustainability – a comparative study on global and Indian perspective  Karthik Kudroli	Developed a generic integration approach for implementing green supply chain practices and generate important insights and findings. The paper synthesizes the past and current research efforts to develop green supply chain strategy and scope of research	The green supply chain activities taken into account are <ul style="list-style-type: none"> <li>• Green product Design</li> <li>• Green material management</li> <li>• Green manufacturing process</li> <li>• Green marketing and distribution</li> <li>• Reverse logistics</li> </ul>
International Conference on Industrial Engineering and Operations Management	Green Supply Chain Management; Critical Research and Practices  L. K. Toke, R. C. Gupta, Milind Dandekar	The study is a brief discussion concerning the definition of green supply chains, the discussion and presentation of issues of the four defined areas. Some practices, research, and evolving issues are discussed	<ul style="list-style-type: none"> <li>• Purchasing and In-bound logistics</li> <li>• Production</li> <li>• Distribution and Outbound logistics</li> <li>• Reverse logistics</li> </ul>
International Scientific Journal Environmental Science	Current Scenario of Green Supply Chain and logistics Management practices in the Indian Industries: A survey study  Prof. Sarbjit Singh	Aimed to study the various activities of the Supply Chain processes of the various Indian Manufacturing Industries i.e. both SME's & Large Scale Industries & finds how much eco-friendly they are for the purpose of metering the performance of the manufacturing sectors	Green Sourcing & Procurement, Green Manufacturing, Green Warehousing, Green Distribution, Green Packaging, Green Transportation
International Journal of Research in IT, Management and Engineering	Food Retail And Retail Supply Chain In India – Literature Review  Panneerselvam S.	The food retail in India is largely unorganized and the size of organized retail is merely 5% It helps the researchers, academicians and other enthusiasts in furthering the research in food retail and food retail supply chain.	
International Journal of Marketing, Financial Services & Management Research	Supply Chain Management Practices In Retailing: A Consumer Perception Study In Varanasi Region  Mr. Rajeev Kumar	Studied consumer perception on adopted SCM practices in retailing and studied consumer perception on adopted SCM benefits in organized retailing and in pet (local) retail outlets. It is concluded that there is lack of awareness about SCM among the consumers	Availability of wider range product, Choice of more brands, Choice of more variants, Better product quality, Fresh / New stock, Certainty for availability, Best price availability, Better customer service, Closer to house, Proximity to the place of work, Easy to access, Variety of payment modes
International Journal of Scientific and Research Publications	Environmental Sustainability through Green Supply chain management practices among Indian Manufacturing Firms with special reference to Tamilnadu  B. L. Lakshmi Meera, Dr. P. Chitramani	The study projects the relationship between Green supply chain management practices and Environmental performance of manufacturing industries	<u>GSCM Drivers</u> Customer, Government regulations, Stakeholders, Competitors, Industry groups, Export, Market <u>GSCM Practices</u> Management support, Inbound practices, Outbound practices, Design and production, Reverse logistics
International Journal of Managing Value and Supply Chains	Supply Chain Management In Indian Automotive Industry: Complexities, Challenges And Way Ahead  Souresh Bhattacharya, Dr. D. Mukhopadhyay and Dr. Sunil Giri	The paper discussed the present status, complexities and challenges faced by the Indian automobile sector. It examines trends such as visibility and innovation, collaboration and supply networks and evolving leadership roles impacting supply chain effectiveness. Strategies for overcoming challenges are also presented. A framework has been developed for further study	Major issues discussed are <ul style="list-style-type: none"> <li>• Integration</li> <li>• Supply chain challenges</li> <li>• OEM- Supplier synergy</li> <li>• Leveraging technology and visibility</li> <li>• Performance measurement and quality</li> </ul>
Universal Journal of Mechanical Engineering	Validating Green Manufacturing (GM) Framework for Sustainable Development in an Indian Steel Industry  Minhaj Ahemad. A. Rehman, R. R Shrivastava, Rakesh. L Shrivastava	Presented the details of a case study. It highlighted the road map of the company for achieving performance improvement through GM implementation and its impact on organizational performance. It also pointed out strengths and weaknesses of GM implementation practices and overall performance using developed research instrument.	<ul style="list-style-type: none"> <li>• Financial manpower performance</li> <li>• Operational performance</li> <li>• Competitive advantage</li> <li>• Continuous improvements</li> <li>• Stakeholders enrichment</li> <li>• Green supply chain performance</li> </ul>
African Journal of Business Management	Food supply Chain Management in Indian Agriculture: Issues, opportunities and further research  Sazzad Parwez	The study focused the supply chain mechanism in agriculture. Most important aspects of agriculture supply chain such as identification of issues at different levels in the supply chain, transformation in the agriculture due to various supply chain interventions and the role of ICTs in supply chain management are covered. Also gave suggestions to improve efficiency at different levels in the agricultural supply chain	Some of the issues stated here are <ul style="list-style-type: none"> <li>• Supplier's performance</li> <li>• Post-harvest handling</li> <li>• Physical infrastructure</li> <li>• Lack of warehousing and cold storage facility</li> <li>• Lack of transportation facility</li> <li>• Lack of technological developments in packaging and promoting</li> </ul>

International Journal of Applied Sciences and Engineering Research	An empirical study of green supply chain management in Indian perspective  L.K.Toke, R.C.Gupta, Milind Dandekar	The study aimed to prioritize critical success factors (CSF) of the green supply chain management in Indian manufacturing sector with the help of analytic hierarchy process.	Critical Success factors are: Top management commitment, Societal concern for protection of natural environment, Government policies and regulations, Eco-literacy amongst SCM partners, Customer satisfaction, Environment Management System, Proper workplace management, Green product development, Green procurement practices, Availability of clean technology, Lean manufacturing practices, Economic interests, Eco-labeling of products, Reverse logistics practices and Competitiveness
International Journal of Engineering and Management Sciences	An Empirical Study of Green Supply Chain Management Drivers, Practices and Performances: With Reference to The Pharmaceutical Industry of Ankleshwar (Gujarat) Pandya Amit R & Mavani Pratik M	The study investigated the GSCM practices adopted by the pharmaceutical industry. The relationship between GSCM practices with environmental, operational and financial performance is studied.	Green supply chain practices, Economic performance, Operational performance, Environmental performance, Environmental regulations, Market pressure, Cooperation with customers, Cooperation with suppliers, Organization's internal drivers, Internal management, Investment recovery, Eco-design and reverse logistics
International Journal of Innovative Research in Science, Engineering and Technology	Green Manufacturing Practices In Brick Industries: A Case Study Using AHP  Abhishek Kumar Singh, Shubhanshu Shekhar Shukla, Sanjay Kumar Jha	The study was conducted on brick industries located near Ranchi, that dealt with the green manufacturing issues. Commercial sector of real estate business is surveyed because of its advancement in recovery and disposal methods. AHP is used to obtain composite rank score of Seven brick industries.	Factors taken into consideration are: Quality/Technology, Recycle/Reuse (water, solid waste), Reduce Energy Use, Reduce Emissions, Reduce Solid Waste, Train employees in sustainability, Encouraging suppliers to use sustainable process
Journal of Supply Chain and Operations Management	Green Purchasing Practices: A study of E-Procurement in B2B Buying in Indian Small and Medium Enterprises R.P Sabari, M.J Xavier and D. Israel	The paper attempted to bring out the impact of important factors like Perception, Size of the company and Buying situation on adopting E-Procurement in Indian manufacturing SMEs.	Quality, Delivery, Price, Technology, Employee strength, Annual Turnover, Straight rebuy, Modified rebuy, New task
International Journal of Innovative Research in Science, Engineering and Technology	Strategy for Implementation of Green Management System to Achieve Sustainable Improvement for Eco friendly Environment, Globally Siddhant Umesh Sawant, Rithwick Mosalikanti, Rahul Jacobi, Sai Prasad Chinthala, B Siddarth	The study discussed various approaches to green management implementation stages Also discussed the benefits of implementation of green management and examined how green management system is adopted in corporate sector.	
International Journal of Soft Computing and Engineering	Green Supply Chain Management: A Case Study from Indian Electrical and Electronics Industry  Sanjeev Kumar, Somnath Chattopadhyaya, Vinay Sharma	The study investigated the green supply chain management practices adopted by the manufacturing industry of electrical and electronics products in India.	Eco procurement, Eco accounting, Eco logistics design, Eco product design, Eco manufacturing, Marketing and Communication, Economic performance, Environmental performance, Customer cooperation, Human and technological resources, Internal environmental management, Operational performance, Stakeholders, Vendor management

TABLE 2: PREVIOUS STUDIES ON GSCM IN INDUSTRIES OF OTHER DEVELOPED AND DEVELOPING COUNTRIES

JOURNAL NAME	TITLE/AUTHOR	DISCUSSIONS	VARIABLES
Journal of Sustainable Development  China 2011	Research on the Performance Measurement of Green Supply Chain Management in China  Yan Li	The paper explored the performance measurement of GSCM based upon a database of over 128 manufacturing facilities in China, various critical factors are discussed under the listed dimensions	Eco-design level, Green purchasing level, Green manufacturing capacity, Green marketing and consumption, Recycling products and processing ability, Level of information technology and Comprehensive level
International Journal of Operations & Production Management  China 2015	Green supply chain management in China: pressures, practices and performance  Qinghua Zhu, Joseph Sarkis, Yong Geng	The study aimed to evaluate and describe GSCM drivers, practices and performance among various Chinese manufacturing organizations.	<u>Drivers</u> Supply chain pressure Cost related pressure Marketing Regulation <u>Practices</u> Internal environmental management External GSCM Eco-design Investment recovery <u>Performance</u> Operational Environmental Economic

European Journal of Business Management Kenya 2014	Effects Of Green Procurement Practices On An Organization Performance In Manufacturing Industry: Case Study Of East African Breweries Limited Michael Kariuki Nderitu, Dr. Karanja Ngugi	The study established the contribution of green procurement concepts to performance of the East African Breweries Limited (EABL). The study recommended that the positive effects of green procurement could be achieved by effective use of listed variables	Staff competence ICT infrastructure Supplier participation Capital expenditure
Journal of Business Management and Economics China 2012	Research on factors of green purchasing practices of Chinese Weifeng Yang and Yuelei Zhang	Based on the survey of 144 companies, five principal components of green purchasing practices were measured and it drawn a conclusion that leaders support will boost the green purchasing practices and cost of environmental management will hinder the green purchasing practices of Chinese enterprises.	Waste separation activities, Environmental management costs, Pressure of suppliers and consumers, Support and commitment of the leadership, Awareness of laws and regulations
International Journal of Economics and Management	Pressures, Green Supply Chain Management Practices and Performance of ISO 14001 Certified Manufacturers in Malaysia Azmawani Abd Rahman, Jo Ann Ho and Khairul Anuar Rusli	The paper investigated green supply chain management among 112 ISO14001 certified manufacturers in Malaysia. Examined the influence of various pressures on the level of green practices, and the interrelationships between drivers, practices, and performance.	<u>Pressures/Drivers</u> Regulations Customers Competitions Management commitment Cost related factors <u>Practices</u> Green purchasing Investment recovery Eco-design Reverse logistics Cooperation with customer Internal environmental practices <u>Performance</u> Environmental Firm's (market, financial, customer satisfaction)
International Journal of Control and Automation Korea 2013	A Study on Determinants of Green Supply Chain Management Practice Byeong-Yun Chang, Yermek Kenzhekhanuly and Byungjoo Park	Studied the determinants of green supply chain management practices in the Korean companies. The research is to find whether the determinants or drivers have any impact on implementation of GSCM in the Korean companies. The relation between these determinants and the green supply chain practices are studied. The findings resulted that the determinants do not have influence to implement the GSCM practices.	<u>External pressures</u> Government and organizational regulations and Consumer's demand <u>Internal pressures</u> Support from the top managers and Organization's learning capacity <u>GSCM practices</u> Supplier selection Cooperation with suppliers Using eco-friendly raw materials Using cleaner technology Environmental improvement of packaging
Journal of Economics, Business and Management Malaysia 2015	A Study of Success Factors in Green Supply Chain Management in Manufacturing Industries in Malaysia Norlinda Mohd Rozar, Wan Hasrulnizam Wan Mahmood, Abdullah Ibrahim, and Muhammad Ashlyzan Razik	The study has carried out survey in 241 of 522 ISO 14001 certified in Malaysia. The authors discussed about 11 critical factors that are listed. Results of the study concluded that GSCM is now gaining momentum in Malaysia.	Customer focus Handling of customer complaints Efficiency in production procedures Minimize non-compliance problems Update documentation Top management commitment Training employees Non-conformities Employee commitment Ensure training need Ascertain the identity of provider of choice and supply of information system Benchmarking
World Applied Sciences Journal	Manufacturing Performance in Green Supply Chain Management Wan Hasrulnizam Wan Mahmood, Mohd Nizam Ab Rahman, Baba Md Deros, Kamaruzaman Jusoff, Adi Saptari, Zuhriah Ebrahim, Al Amin Mohamed Sultan, Mohd Hadzley Abu Bakar, Sivarao Subramonian and Zanariah Jano	Examine the influence of manufacturing performance on green supply chain management amongst Malaysian companies. Results indicate that improving manufacturing performance leads to an integrated green supply chain, which ultimately leads to an enhancement of environmental compliance as well as an optimization of the operational resources and product recycling activities.	Product Recycling Environmental compliance Optimization Performance of manufacturing systems
Journal of Sustainable Development China 2009	Study on the Implementation of Green Supply Chain Management in Textile Enterprises Fengfei Zhou	This article mainly studied the core contents that the Chinese textile and apparel enterprises green supply chain management implementation.	Establishing the strategic assets view Developing a flow system Designing an organization of performance Establishing the strategic cooperation mode Establishing a performance evaluation and management system

International Journal of Innovation, Management and Technology Malaysia 2013	An Integrated Framework of Green Supply Chain Management Implementation M. Ghobakhloo, S. H. Tang, N. Zulkifli, and M. K. A. Ariffin	The paper presented and integrated the framework of green supply chain management implementation which is based on the available literature.	Green product design, Green material management, Green manufacturing process, Green distribution and marketing and Reverse logistics
International Journal of Managing Value and Supply Chains Malaysia 2012	Green Supply Chain Management: A Review and Research Direction Noor Aslinda Abu Seman, Norhayati Zakuan, Ahmad Jusoh and Mohd Shoki Md Arif	The authors briefly reviewed the recent literatures of GSCM and also determine the new direction area in this emerging field. It focused on the development of GSCM in developed and developing countries. Also proposed a research direction on GSCM adoption in Malaysian manufacturing industries.	
International Journal Of Business Studies 2010	A Proposed Methodology To Promote Adoption Of Green Production By Small Firms Elizabeth A Walker, Janice Redmond and Margaret Giles	The paper developed a proposed methodology to engage small firm owner managers in green production, in particular adoption of energy saving and waste recycling practices.	Problems of small firm owner-manager's lack of engagement due to Negative attitudes towards behavior Lack of resources reduce perception of control Lack of business case
International Food and Agribusiness Management Review Germany 2014	An Empirical Investigation into the Adoption of Green Procurement Practices in the German Food Service Industry Verena Hauschildt <i>et al.</i>	Analyzed the relationship between sustainability views, drivers and barriers and concrete procurement practices for sustainability in the German food service industry (FSI)	
Environmental Economics South Africa 2014	Environmental management practices for sustainable development: agenda for harmonization Gibson Nyirenda, Collins C. Ngwakwe	Explored the role of environmental management practices on sustainable development. Concluded by recommending that these environmental management practices be harmonized across the different sectors of society which will result in improved sustainable development and promote green economic development.	Various environmental management practices concentrated are <ul style="list-style-type: none"> <li>• Engineering</li> <li>• Education</li> <li>• Law</li> <li>• Health</li> </ul>
Journal of Management and Sustainability Jordan 2015	The Impact of Green Supply Chain Management Practices on Organizational Performance: A Study of Jordanian Food Industries Salah M.Diab <i>et al</i>	Studied the GSCM practices and its elements on organizational performance in food industries and found that there is no significant impact of GSCM practices on organizational performance.	<u>GSCM practices</u> Internal environmental management Collaboration with customers Green purchasing Eco-design and packaging Warehousing and green building <u>Organizational performance</u> Environmental Financial Operational

## DISCUSSION

The main purpose of this paper to highlight the development of green supply chain management in India. The increased awareness of environmental thinking in Indian industries tempted to conduct further research on the adoption of GSCM in SMEs at Tiruchirappalli. The scope of GSCM practices carried out at both internal and external level environment management systems could be studied and to determine whether these management systems have impact on the output on the organizational performance and give suggestions for future development.

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