



"Gheorghe Asachi" Technical University of Iasi, Romania



SUSTAINABLE PERFORMANCE IN MANUFACTURING SMES OF DEVELOPING COUNTRY THROUGH GREEN SUPPLY CHAIN MANAGEMENT AND GREEN KNOWLEDGE MANAGEMENT: A MEDIATED MODERATION MODEL

**Ikramuddin Junejo,^{1,2} Jan Muhammad Sohu^{3*}, Sarfraz Ahmed Dakhan³,
Ummi Naiemah Saraih^{2,4,5}, Muhammad Iatzaz Ul Hassan⁶**

¹Department of Business Administration, University of Sindh, Thatta campus, Pakistan

²Faculty of Business & Communication, Universiti Malaysia Perlis, Kangar, Malaysia.

³Department of Business Administration, Sukkur IBA University, Sukkur, Pakistan

⁴Centre of Excellence for Social Innovation & Sustainability, Universiti Malaysia Perlis, Kangar, Malaysia.

⁵Department of Business Administration, Daffodil International University, Dhaka, Bangladesh.

⁶School of Finance and Economics, Jiangsu University, Zhenjiang, Jiangsu, China

Abstract

The purpose of the study is to examine the impact of green supply chain management (GSCM) on sustainable performance (SP) in manufacturing SMEs in developing countries. This model also attempts to investigate mediated moderation analysis in the presence of green knowledge sharing as a mediator and big data analytics capability powered by artificial intelligence (BDAC-AI) as a moderator. The data was collected through an online survey method from the manufacturing SMEs. Of the sample of 843, 469 responses were properly filled out and considered valid responses for further analysis. The PLS-SEM approach has been used for analysis using the latest version of SmartPLS-4.1.0.2. The findings revealed that all the directly proposed hypotheses have a positive and significant impact on SP in manufacturing SMEs in Pakistan. However, GKM confirmed a higher impact with a higher beta value as compared to others to obtain sustainability in manufacturing SMEs. In addition, GKS, as a mediator, also supported partial mediation for achieving sustainability. Lastly, BDAC-AI has also confirmed a moderating role in SP. This study leverages the resource-based view (RBV) and knowledge-based view (KBV) to strengthen the research's contribution to the body of knowledge and provides a more robust foundation for obtaining sustainable development in manufacturing SMEs. Moreover, empirical findings provide valuable insights for policymakers in developing countries, emphasizing the importance of integrating these constructs into future policies to foster sustainable development within manufacturing SMEs. These empirical findings advise policymakers on manufacturing SMEs in developing countries. They must consider these variables in future policies for better results.

Key words: green supply chain management, green knowledge management, manufacturing SMEs, sustainable performance, serial mediated moderation model

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* Author to whom all correspondence should be addressed: e-mail: jan.sohu@stmail.ujs.edu.cn; Phone and Fax: +86 18505255086