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REVIEWER'S REPORT

Manuscript No.: IJAR- 56013

Title: Green supply chain practices are key to reducing carbon emissions in the logistics sector in Saudi Arabia

Recommendation:
Accept as it is .....
Accept after minor revision.....
Accept after major revision
Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity			✓	
Significance			✓	

Reviewer Name: **ANAPANA GOPAL**

Reviewer's Comment for Publication.

General Comments

The manuscript addresses a highly relevant and timely topic: the role of green supply chain management (GSCM) in reducing carbon emissions within the logistics sector of Saudi Arabia, particularly in the context of Saudi Vision 2030. The topic is well aligned with global sustainability priorities and national policy directions. The paper demonstrates substantial effort, extensive coverage of literature, and an intention to combine qualitative and quantitative approaches.

However, the manuscript suffers from minor issues in coherence, language quality, internal consistency, and conceptual focus. Most critically, the final conclusion section is entirely unrelated to the study topic, shifting abruptly to AI-based drilling prediction, which seriously undermines the academic credibility of the paper. Substantial revision is required before the manuscript can be considered for publication.

Content and Originality

The topic itself is not novel, as GSCM and green logistics have been widely studied. However, the Saudi Arabian context, framed within Vision 2030, provides contextual originality and regional relevance. The paper appropriately identifies a research gap regarding empirical evidence and practical implementation of GSCM in Saudi logistics. That said:

- Much of the content is descriptive rather than analytical.
- Several claims regarding percentage reductions in carbon emissions appear insufficiently substantiated or overly generalized.
- The study would benefit from clearer differentiation between review-based insights and original empirical contributions.

The originality is therefore moderate, with value primarily derived from contextual application rather than theoretical advancement.

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Technical Quality

The proposed mixed-methods research design is appropriate in principle, combining surveys, interviews, and secondary data analysis. However, there are several technical weaknesses:

- The methodology lacks clarity on sampling justification, response rates, and validation of survey instruments.
- Quantitative results (e.g., carbon reduction figures, percentage impacts) appear illustrative rather than rigorously measured, raising concerns about reliability.
- Statistical analysis remains largely descriptive, with no inferential testing or robustness checks.
- Tables and figures are referenced, but actual data sources and calculation methods are not sufficiently explained.

Most importantly, the findings and conclusion sections are technically inconsistent, with the final section entirely unrelated to logistics or supply chain management.

Language and Presentation

The manuscript has significant language and stylistic problems that require minor editing:

- Informal expressions (e.g., "Well," "So," "we're trying to") are inappropriate for academic writing.
- Inconsistent tense usage and repetitive phrasing reduce clarity.
- Numerous grammatical errors, awkward constructions, and formatting inconsistencies are present.
- Keywords contain redundancy and non-standard phrasing.

A comprehensive professional language edit is essential.

Structure and Organization

While the paper follows a conventional structure (introduction, literature review, methodology, findings), its organization is weakened by:

- Excessive length and repetition in several sections
- Poor integration between literature review and empirical findings
- Redundant explanations of Vision 2030 across multiple sections
- A critically flawed conclusion, which discusses an unrelated topic (AI-driven drilling prediction)

This structural inconsistency represents a minor academic flaw and must be corrected.

References and Citations

The reference list is extensive and includes many foundational and reputable sources in green supply chain management and logistics sustainability. This is a strength of the manuscript.

However:

- Some in-text citations do not clearly correspond to empirical claims made in the text.
- A few references appear outdated relative to recent Saudi logistics developments.
- Citation formatting is inconsistent (spacing, ampersands, italics).

Despite these issues, the reference base is generally appropriate.

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Overall Recommendation

The manuscript addresses an important subject and demonstrates strong intent, but it is not ready for publication in its current form. The mismatch between sections, language issues, and methodological weaknesses significantly affect its scholarly quality.

Final Decision

Minor Revision

The paper requires:

- Complete rewriting of the conclusion to align with the study topic
- Removal of unrelated content (AI and drilling prediction)
- Significant improvement in academic language and tone
- Clearer methodological rigor and validation of quantitative claims
- Improved structural coherence and reduction of redundancy

Only after these substantial revisions should the manuscript be reconsidered for publication.