

REVIEWER'S REPORT

Manuscript No.: IJAR-59569

Title: Development of a Construction Supply Chain Resilience Model for Giga Projects 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 Id: JPR-397

Reviewer's Comment for Publication.

The manuscript presents a relevant and well-structured integrative review on construction supply chain resilience in Saudi Arabian giga-projects. Its principal contribution is the proposed Construction Supply Chain Resilience Model (CSCRM), which integrates exposure intelligence, protected sourcing, integrated information, adaptive delivery, and institutional learning through defined governance and performance-feedback mechanisms. The discussion of disruption propagation, supplier diversification, digital visibility, procurement governance, and project-level recovery is valuable for construction management and megaproject delivery. The implementation stages and proposed performance indicators also provide practical direction for project owners, contractors, and suppliers. However, minor revisions are recommended to strengthen methodological transparency and improve the framework's operational clarity.

Required revisions:

- Clarify the literature search procedure:** Provide additional details about the search platforms or sources consulted, the search period, and how the final 30 articles were selected. Clearly acknowledge the focused, non-exhaustive nature of the review and avoid implying systematic database coverage that was not undertaken.
- Explain the synthesis process more explicitly:** Clarify how the six analytical questions and four review domains were translated into the five capabilities of the CSCRM. A concise mapping table would help readers trace the connection between the reviewed evidence and the proposed model.
- Strengthen operational definitions:** Define how criticality, substitutability, supplier capacity, recovery time, and disruption-related critical-path loss could be measured in practice. Explain how project teams might establish and periodically revise thresholds for early-warning indicators.
- Clarify the model's validation status:** The manuscript appropriately presents the CSCRM as a theoretical proposition rather than an empirically validated model. Maintain this distinction consistently and identify specific propositions or relationships that future multi-project studies should test.

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5. **Improve the practical implementation guidance:** Explain how decision rights and escalation procedures should operate when project-level and programme-level priorities conflict. A brief example of a decision trigger, responsible authority, proposed intervention, and subsequent performance assessment would strengthen practical applicability.
6. **Check references and presentation:** Verify consistency between in-text citations and the reference list, ensure that all figures and tables are clearly legible and appropriately referenced, and maintain consistent terminology throughout the manuscript.

Overall, the manuscript addresses an important topic and offers a coherent conceptual framework with practical relevance to Saudi giga-projects. The proposed model is promising, and the identified revisions are intended to improve methodological transparency, reproducibility, and implementation clarity without requiring a fundamental restructuring of the paper. **Acceptance after minor revision is recommended.**