

REVIEWER'S REPORT

Manuscript No.: IJAR-53341

Date: 15 August 2025

Title: STUDY OF THE THERMOMECHANICAL PERFORMANCES OF BIO-SOURCED MATERIALS: INFLUENCE OF THE PROPORTION OF SUGAR CANE FIBER AND THE CEMENT CONTENT

Recommendation:

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

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

Reviewer Name: Dr. Rodzidah Mohd Rodzi

Date: 15 August 2025

Reviewer's Comment for Publication.

(To be published with the manuscript in the journal)

The reviewer is requested to provide a brief comment (3-4 lines) highlighting the significance, strengths, or key insights of the manuscript. This comment will be Displayed in the journal publication alongside with the reviewers name.

This manuscript is significant in contributing to sustainable and environmentally friendly development. The strength of this study lies in its use of materials derived from renewable sources, such as plants and organic waste. The findings have the potential to support the replacement of synthetic materials and promote a green economy.

REVIEWER'S REPORT

Detailed Reviewer's Report

1. Title is suitable.
2. Abstract was well written.
3. Introduction - Please state the study's significance.
4. Line 13: Variable sizes (10 mm, 20 mm, and 30 mm)
5. Methods - Line 36: between 2 and 6 m for a diameter of 2 to 7 cm.
6. Results and Discussion - Line 102: The data in the bar chart are not clearly visible.
7. Line 112: The data in the chart are overlapping, which affects clarity.
8. Line 120: specimens of (16 x 4 x 4 cm³).
9. Line 121: The data in the chart.
10. Line 129: The data.
11. Conclusion - What is the recommendation from this study?
12. References [14] - I suggest adding three more recent references published between 2000 and 2025.
13. The references dated 2003, 2012, 2015, 2016, 2018, and 2019 are not particularly recent. Please consider citing the latest studies to enhance the timeliness and relevance of the work.