

REVIEWER'S REPORT

Manuscript No.: IJAR-53864

Date: 17-09-2025

Title: A Study on Strength Properties of Textile Sludge with Fibre Reinforced in Paver Blocks.

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: Mr. Bilal Mir.

Reviewer's Comment for Publication

This paper addresses an important and timely issue of sustainable waste management by exploring the reuse of textile sludge as a partial cement replacement in paver blocks with added polypropylene fiber reinforcement. The study is well-structured, with a clear abstract, detailed methodology, and comprehensive results that demonstrate the feasibility of incorporating textile sludge up to 30% as a cement substitute for non-traffic and medium-traffic applications. The inclusion of fiber up to 0.5% is shown to enhance compressive strength, adding practical value to the findings.

The experimental program is well-designed, with appropriate material characterization, mix proportioning, and compressive strength testing at 7 and 28 days. The discussion effectively relates the results to previous literature and industrial relevance. However, minor improvements are suggested:

1. Clarify the environmental implications of large-scale adoption of textile sludge in construction materials.
2. Provide more details on the long-term durability and potential leaching characteristics of the paver blocks.
3. Improve the formatting of figures and tables to enhance readability.

Overall, this manuscript offers valuable insights into sustainable construction practices and can be published after addressing the minor revisions mentioned above.

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