

REVIEWER'S REPORT

Manuscript No.: IJAR-58759

Title: Thermomechanical characterization of adobe bricks made from cattail.

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's ID: JPR- DR PRITI GUPTA

Detailed Reviewer's Report

1. The manuscript requires substantial **English-language editing**.
2. There are numerous missing spaces and grammatical problems, e.g., “thetransient,” “decreasedensity,” and “earthmaterials.”
3. The term “**thermomechanical**” should be used consistently rather than alternating between “thermal and mechanical.”
4. “% passers-by” in Table 2 should be replaced by “**percentage passing**.”
5. Table numbering should be checked because Table 2 is used for Typha particle-size analysis and again referred to in the mechanical characterization discussion.
6. Figure 9 is called a “grain size histogram,” although it presents particle-size fractions; the caption should be revised.
7. Decimal notation should be standardized throughout.
8. SI units should be formatted consistently.
9. The manuscript should provide the exact equation for compressive strength.
10. The thermal-effusivity equation should be included.
11. Figures should have larger axis labels and clearer legends.
12. Recent literature specifically concerning Typha-based earth blocks should be added.
13. Reference formatting is inconsistent and should be carefully checked.
14. Some in-text citations do not appear to correspond correctly with the listed references. For example, the text cites **Cérézo et al. (2023)**, whereas the bibliography lists a 2005 doctoral thesis under reference [19].
15. The authors should verify all bibliographic information, DOI numbers, publication years and author names before resubmission.