

REVIEWER'S REPORT

Manuscript No.: IJAR-58872

Title: A CONCEPT OF MULTI-CRITERIA OPTIMIZATION OF GLASS-FIBER COMPOSITES FOR MECHANICAL ENGINEERING,

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

- The manuscript should distinguish between **multi-objective optimization** and **multi-criteria decision-making**.
- Equation (1) should clearly indicate whether the problem involves minimization, maximization, or mixed objectives.
- Equation (2) should consistently use the same index notation.
- Equation (3) should clearly define whether all normalized objectives have already been converted to a minimization or maximization convention.
- The weighting coefficients should be reported in a numerical example.
- Table 1 is useful but should distinguish between **objective functions and constraints**.
- The optimization direction for the environmental criteria should be more precisely defined.
- • The discussion of surrogate modelling should distinguish between interpolation and extrapolation.
- The references are generally relevant and include recent publications through 2025.
- Reference formatting should be standardized throughout.
- The manuscript should undergo careful English-language editing.