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REVIEWER'S REPORT

Manuscript No.: IJAR-57848

Title: OPTIMIZATION OF COMPOSTING SYSTEMS USING FOOD WASTE-DERIVED MICROBIAL CONSORTIA FOR SUSTAINABLE ENVIRONMENTAL MANAGEMENT.

Recommendation:

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

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

Reviewer's ID: JPR-171

Detailed Reviewer's Report

This review discusses microbial consortia for composting food waste as a sustainable environmental management strategy. While the topic is relevant, the manuscript lacks critical analysis and originality. The review is largely descriptive, summarising known composting stages and parameters without offering a novel synthesis or critical evaluation of the evidence. Major gaps include: (1) no systematic search methodology or inclusion criteria for cited studies; (2) overreliance on a small set of references, with many citations from 2024–2026 that are likely preprints or unpublished; (3) absence of quantitative comparison of composting efficiencies between different microbial consortia; (4) failure to address scalability, economic feasibility, or real-world application challenges; (5) redundant content across sections (e.g., microbial diversity discussed multiple times). The conclusion and recommendations are generic and not grounded in the review's findings. The authors must restructure the paper as a critical review, provide a transparent methodology, include a comparative analysis of literature, and address practical implementation barriers. A major revision is required.