

REVIEWER'S REPORT

Manuscript No: IJAR-54127

Date: 03-10-2025

Title: THE IMPACT OF BIO-FERTILIZERS ON VEGETABLE CROPS

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: Mir Tanveer

Reviewer's Comment for Publication:

This manuscript provides a comprehensive overview of the role of bio-fertilizers in vegetable crop cultivation. The paper is well-structured, beginning with a strong introduction that highlights the environmental challenges posed by chemical fertilizers and positions bio-fertilizers as a sustainable alternative. The discussion of various types of bio-fertilizers (Rhizobium, Azotobacter, Azospirillum, phosphate-solubilizing bacteria, potassium-solubilizing bacteria, VAM fungi, and PGPR) is thorough and supported by relevant references.

The strength of the paper lies in its detailed explanation of the mechanisms of action of these microorganisms, along with examples of their effects on yield, soil fertility, and plant health. The inclusion of a table summarizing bio-fertilizer impacts on vegetable crops enhances the readability and practical value of the work.

However, some minor revisions are suggested:

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1. **Clarity and Language:** Certain sections, particularly in the introduction and conclusion, contain repetitive statements (e.g., lines 162–178 repeat similar points). These should be condensed to avoid redundancy.
2. **Formatting:** Table 1 could be presented more neatly with clearer column alignment to improve readability.
3. **References:** Ensure uniform referencing style throughout (some references lack proper journal formatting or page ranges).
4. **Future Outlook:** While the paper highlights current benefits of bio-fertilizers, a short section on challenges or limitations (e.g., field variability, commercialization issues) would strengthen the discussion.

Overall, the manuscript is **informative, relevant, and timely**, contributing significantly to sustainable agriculture literature. With minor revisions, it is suitable for publication.