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REVIEWER'S REPORT

Manuscript No.: IJAR-50420

Date: 25/2/2025

Title: Greening agriculture with cocopeat: Paving the way for sustainable crop production

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: Ahmed M. Saqr

Date: 25/2/2025

Reviewer's Comment for Publication.

(To be published with the manuscript in the journal)

The reviewer is requested to provide a brief comment (3-4 lines) highlighting the significance, strengths, or key insights of the manuscript. This comment will be Displayed in the journal publication alongside with the reviewers name.

The manuscript provides valuable insights into the use of cocopeat as an organic amendment for improving soil's physicochemical properties and promoting sustainable crop production. The study's strengths lie in its detailed evaluation of different cocopeat concentrations and its potential applications for mitigating soil degradation, offering practical solutions for enhancing agricultural productivity.

Detailed Reviewer's Report

Thank you for the opportunity to review the manuscript titled "Greening agriculture with cocopeat: Paving the way for sustainable crop production" submitted to International Journal of Agricultural Research. This study evaluates the effects of cocopeat as an organic amendment on soil's physicochemical properties and its influence on plant growth. The research highlights the potential benefits of cocopeat as a sustainable alternative for improving soil quality and promoting crop growth. While the study offers promising insights, several areas require substantial improvements and clarifications. Therefore, I recommend a major revision of the manuscript.

REVIEWER'S REPORT***Comments and Suggestions for Authors***

Abstract: The abstract provides a general overview, but it lacks detailed quantitative results. Could you include key numerical findings on plant growth and soil improvements?

Introduction: The introduction outlines the importance of soil degradation and the potential role of cocopeat but lacks a clearly defined research gap. Can you explicitly state what is novel about your study compared to previous research?

Figures and Tables: Some figures, such as Figures 2 and 4, are not clearly labeled, and their quality could be improved. Would you consider enhancing the resolution and adding more descriptive captions?

Methodology: The methodology provides a detailed description of experimental design but lacks information on how data accuracy and precision were ensured. Can you elaborate on any quality control measures?

Statistical Analysis: There is limited mention of statistical tests used to analyze the results. Could you provide details about the statistical methods employed to determine the significance of the findings?

Results Presentation: The results section describes the trends observed but lacks an in-depth interpretation of why these trends occurred. Could you provide more insights into the reasons behind the observed patterns?

Discussion: The discussion could benefit from a stronger comparison with previous studies. How do your findings align or differ from existing literature on the use of cocopeat as a soil amendment?

Conclusion: The conclusion summarizes the results but does not provide specific recommendations for practical applications or future research. Could you include suggestions for using cocopeat in sustainable agriculture?

References: The references list appears comprehensive but lacks citations of more recent studies on soil amendments and organic matter management. Have you considered including more recent literature?

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Formatting and Language: There are some minor grammatical errors and formatting inconsistencies throughout the manuscript. Would you consider revising the text for clarity and alignment with journal guidelines?