

Review Form 3

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_129867
Title of the Manuscript:	Sunflower Growth and Soil Properties under Different Straw Management Practices in a Rice-Based System
Type of the Article	Original Research Article

PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	This manuscript provides valuable insights into the impact of rice residue management on sunflower growth and soil physical health in a rice-based cropping system, particularly in alfisols. The study highlights the significance of adjusting straw C:N:P ratios before incorporation, which enhances plant growth, improves soil bulk density, and increases soil moisture retention. These findings contribute to the understanding of sustainable crop residue management practices, offering practical strategies to optimize resource utilization and maintain soil health. Such research is crucial for promoting sustainable agricultural practices, especially in regions facing challenges of soil degradation and crop residue disposal.	
Is the title of the article suitable? (If not please suggest an alternative title)	The current title, " <i>Sunflower Growth and Soil Properties under Different Straw Management Practices in a Rice-Based System</i> ," is descriptive but could be more specific and engaging. A possible alternative title could be: "Influence of Rice Residue Management on Sunflower Growth and Soil Health in a Rice-Sunflower Cropping System." This alternative emphasizes the relationship between residue management, crop performance, and soil health while maintaining clarity and scientific relevance.	

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<p>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</p>	<p>Yes</p>	
<p>Is the manuscript scientifically, correct? Please write here.</p>	<p>Based on the abstract provided, the manuscript appears to be scientifically correct as it presents logical and data-supported conclusions about the effects of rice residue management on sunflower growth and soil properties. The experimental design (randomized block design) is appropriate for agricultural research, and the findings align with known principles of soil health and residue management. However, to confirm the scientific accuracy, the following aspects need careful evaluation:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Experimental Details: <ul style="list-style-type: none"> • Ensure clarity on the treatment structure, replication, and controls used in the study. • Verify that the adjustments to straw C:N:P ratios are scientifically justified and feasible for field implementation. <input type="checkbox"/> Data Analysis: <ul style="list-style-type: none"> • Check if statistical analysis was applied correctly to validate the results (e.g., ANOVA, LSD, or similar tests). • Look for proper reporting of variability (e.g., standard error, confidence intervals) to support conclusions. <input type="checkbox"/> Consistency with Existing Literature: <ul style="list-style-type: none"> • Cross-reference the findings with established research on residue management, soil health, and sunflower agronomy. <input type="checkbox"/> Implications: <ul style="list-style-type: none"> • Ensure the conclusions drawn are well-supported by the results and relevant to the broader scientific and agricultural community. <input type="checkbox"/> Scientific Writing: <ul style="list-style-type: none"> • Confirm that technical terms (e.g., bulk density, gravimetric moisture) are used correctly. 	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>Yes</p>	
<p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The language and English quality of the abstract are generally understandable but could be improved for scholarly communication. Here's an evaluation and suggestions for refinement:</p> <ul style="list-style-type: none"> <input type="checkbox"/> The abstract uses technical terms relevant to the field, making it appropriate for a scientific audience. <input type="checkbox"/> Key results are presented quantitatively, enhancing credibility. 	
<p><u>Optional/General</u> comments</p>		

PART 2:

	<p>Reviewer's comment</p>	<p>Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</p>
<p>Are there ethical issues in this manuscript?</p>	<p><u>(If yes, Kindly please write down the ethical issues here in details)</u></p>	

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