

**Review Form 3**

Journal Name:	<b>Asian Journal of Research in Crop Science</b>
Manuscript Number:	<b>Ms_AJRCS_122592</b>
Title of the Manuscript:	<b>Integrated Manure and Fertilizer Application: A Pathway to Enhanced Rice Yield and Soil Health</b>
Type of the Article	

**Review Form 3**

**PART 1: Review Comments**

<b>Compulsory</b> REVISION 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>
<p><b>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</b></p>	<p>This manuscript is significant for the scientific community as it addresses the critical issue of optimizing soil fertility through the balanced use of synthetic and organic nutrient sources. By examining various combinations of manure and fertilizer and their effects on rice growth and yield, the study provides valuable insights into integrated nutrient management. The findings highlight the effectiveness of combining 75% recommended fertilizer dose with dhaincha green manure, which not only improves rice yield but also enhances soil health. This research is particularly relevant for developing sustainable agricultural practices and could guide future studies in soil fertility management and crop optimization.</p>	
<p><b>Is the title of the article suitable? (If not please suggest an alternative title)</b></p>	<p>The title "Integrated Manure and Fertilizer Application: A Pathway to Enhanced Rice Yield and Soil Health" is appropriate as it reflects the study's focus on combining different nutrient sources to improve both rice yield and soil health. However, to make it even more specific and informative, you might consider the following alternative:</p> <p><b>Alternative Title: "Optimizing Rice Yield and Soil Health: Effects of Integrated Manure and Fertilizer Applications on BRRI dhan71"</b></p>	
<p><b>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.</b></p>	<p>The abstract provides a clear summary of the study's objectives, methods, and key findings. However, a few enhancements could make it more comprehensive:</p> <ol style="list-style-type: none"> <li><b>Objective Clarity:</b> Explicitly state the research objective or hypothesis at the beginning. For example, mention the goal of comparing various nutrient combinations to find the optimal balance for rice yield and soil health.</li> <li><b>Methodology Details:</b> Briefly mention the statistical methods used to analyze the results, which will help readers understand how conclusions were drawn.</li> <li><b>Results Specificity:</b> Include specific values or metrics for the statistical significance of the results if available. This adds credibility and helps convey the impact of the findings more precisely.</li> <li><b>Implications:</b> Briefly mention the practical implications of the findings for farmers or policymakers, which can enhance the relevance of the study.</li> </ol>	
<p><b>Are subsections and structure of the manuscript appropriate?</b></p>	<p><b>Appropriate</b></p>	
<p><b>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</b></p>	<p>The manuscript presents a scientifically robust study on optimizing rice yield through integrated manure and fertilizer application. The experimental design, which includes a Randomized Complete Block Design (RCBD) and multiple treatment combinations, is rigorous and well-suited to address the research question. The use of both organic and inorganic fertilizers and the detailed analysis of soil and plant parameters ensure comprehensive coverage of the topic.</p> <p>The manuscript is technically sound, as it includes precise methodologies for soil and plant analysis, supported by established protocols. The results are discussed in the context of existing literature, demonstrating a thorough understanding of soil-plant interactions and nutrient management. Additionally, the study's focus on Dhaincha green manure and its impact on nutrient uptake and yield is well-supported by statistical analysis and comparison with previous research.</p>	

**Review Form 3**

<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p> <p>-</p>	<p><b>Suggestions for Additional References:</b></p> <ol style="list-style-type: none"> <li><b>Recent Reviews on Integrated Nutrient Management:</b> Search for recent review articles that summarize advancements in the field of nutrient management. For example, reviews published in the last two years on the efficacy of combining organic and inorganic fertilizers in different soil types.</li> <li><b>Current Guidelines and Recommendations:</b> Include references to recent agricultural guidelines or recommendations from institutions like the Food and Agriculture Organization (FAO) or national agricultural research organizations.</li> </ol>	
<p><u>Minor</u> REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Based on the provided excerpts, the language and English quality of the article seem generally suitable for scholarly communication.</p> <p>Overall, while the language quality appears suitable, these refinements can help ensure that the manuscript meets the high standards expected in scholarly publications.</p>	
<p><u>Optional/General</u> comments</p>	<p>Here are some optional/general comments that might be useful for improving the manuscript:</p> <ol style="list-style-type: none"> <li><b>Figures and Tables:</b> Ensure that all figures and tables are well-labeled and referenced in the text. Consider including visual aids that illustrate key results or trends, as they can significantly enhance reader comprehension.</li> <li><b>Literature Review:</b> Expand the literature review section to include recent studies or reviews that discuss advances in integrated nutrient management and their impacts on crop yields.</li> <li><b>Discussion:</b> Strengthen the discussion by comparing your results with those from other similar studies. This will help to contextualize your findings within the existing body of research and highlight their significance.</li> <li><b>Recommendations:</b> Provide practical recommendations based on the study's findings. For instance, offer specific guidelines for farmers on the optimal use of different manure and fertilizer combinations.</li> <li><b>Future Research:</b> Suggest areas for future research, such as exploring the long-term effects of integrated nutrient management on soil health and crop sustainability.</li> <li><b>Ethical Considerations:</b> If applicable, include a brief section on any ethical considerations related to the research, such as the environmental impact of the manure and fertilizer applications.</li> </ol>	

**PART 2:**

	<p><b>Reviewer's comment</b></p>	<p><b>Author's comment</b> (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>	

**Review Form 3**

**Reviewer Details:**

Name:	<b>Yadvendra Pal Singh</b>
Department, University & Country	<b>Lovely Professional University, India</b>