

Review Form 1.7

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_115414
Title of the Manuscript:	Effect of Integrated Nutrient Management on Growth and Flower Yield of Tuberose (<i>Polianthes tuberosa</i> L.) cv. Prajwal
Type of the Article	Research Article

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PART 1: Review Comments

	Reviewer's comment	Author's comment <i>(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)</i>
<p><u>Compulsory</u> REVISION comments</p> <ol style="list-style-type: none"> 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>The manuscript titled "Effect of Integrated Nutrient Management on Growth and Flower Yield of Tuberose (Polianthes tuberosa L.) cv. Prajwal" presents a detailed field investigation on the impact of different nutrient management approaches on the growth and flowering of tuberose. The study evaluates the effects of various combinations of inorganic fertilizers, organic manures, and biofertilizers on various growth parameters, physiological characteristics, and yield attributes of the tuberose cultivar Prajwal. Overall, the manuscript is well-structured, scientifically sound, and provides valuable insights into optimizing nutrient management practices for tuberose cultivation.</p> <ol style="list-style-type: none"> 1. The manuscript is important for the scientific community as it addresses the crucial aspect of integrated nutrient management in ornamental crop production, specifically tuberose. The study contributes valuable insights into optimizing nutrient supply and promoting sustainable agricultural practices while maintaining or enhancing crop performance. The findings can potentially guide growers and researchers in developing effective nutrient management strategies for tuberose cultivation. 2. The title "Effect of Integrated Nutrient Management on Growth and Flower Yield of Tuberose (Polianthes tuberosa L.) cv. Prajwal" accurately reflects the content and scope of the study, making it suitable. 3. Yes, the abstract provides a concise yet comprehensive overview of the study, including the objectives, methodology, key findings, and conclusions. It effectively summarizes the essential aspects of the research. However, the authors may consider providing a brief statement highlighting the significance or potential implications of the study in the abstract to further enhance its comprehensiveness. 4. Yes, the subsections and overall structure of the manuscript are appropriate and well-organized. The introduction establishes the context and importance of the study, followed by the materials and methods section, which clearly describes the experimental design and data collection procedures. The results and discussion sections present and interpret the findings in a systematic manner, and the conclusion section summarizes the key takeaways. 5. Based on the information provided, the manuscript appears to be scientifically correct. The experimental design, data collection methods, and statistical analyses seem appropriate and in line with standard practices in the field of horticulture and plant sciences. However, the authors may consider providing more details on the statistical analyses employed, particularly in the materials and methods section, to enhance transparency and replicability. 6. The references cited in the manuscript are sufficient and relevant to the study. The authors have included recent and appropriate sources from reputable journals and publications. However, the authors may consider including a few additional references that specifically address integrated nutrient management practices in other ornamental crops or related plant species, if available. This could contribute to a more comprehensive literature review and strengthen the discussion of the findings in a broader context. <p>Additional Comment:</p> <p>Here are some additional suggestions/comments:</p> <ol style="list-style-type: none"> 1. Experimental Design and Treatments: <ul style="list-style-type: none"> - The authors could provide more details on the rationale behind the selection of the specific treatment combinations and levels of organic amendments and biofertilizers used in the study. This would help readers better understand the experimental design and the potential 	

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	<p>implications of the findings.</p> <p>2. Soil Characteristics and Environmental Conditions:</p> <ul style="list-style-type: none">- It would be beneficial if the authors included information about the soil characteristics (e.g., texture, pH, nutrient status) and environmental conditions (e.g., temperature, rainfall) during the experimental period. These factors can significantly influence plant growth, nutrient uptake, and overall crop performance, and their inclusion would provide valuable context for interpreting the results. <p>3. Economic and Environmental Considerations:</p> <ul style="list-style-type: none">- The authors could discuss the potential economic implications of the different nutrient management strategies evaluated in the study. This could include an analysis of the costs associated with the various inputs (organic amendments, biofertilizers, inorganic fertilizers) and the potential cost-benefit ratio based on the yield and quality of the tuberose crop.- Additionally, the authors could explore the environmental implications of the different nutrient management approaches, such as their potential impact on soil health, greenhouse gas emissions, or other environmental factors. This would align with the growing emphasis on sustainable and environmentally friendly agricultural practices. <p>4. Potential Interactions and Synergies:</p> <ul style="list-style-type: none">- The authors could further explore the potential interactions or synergies between the different nutrient sources (organic amendments, biofertilizers, and inorganic fertilizers) used in the study. Understanding these interactions could provide valuable insights into optimizing nutrient management strategies and maximizing the benefits of integrated nutrient management approaches. <p>5. Varietal Differences and Adaptability:</p> <ul style="list-style-type: none">- If relevant information is available, the authors could discuss the potential varietal differences in the response of tuberose cultivars to the evaluated nutrient management strategies. This could help determine the adaptability and suitability of the recommended practices for different tuberose cultivars or varieties. <p>6. Potential for Scaling and Commercialization:</p> <ul style="list-style-type: none">- The authors could provide insights or recommendations on the potential for scaling up or commercializing the most effective nutrient management strategies identified in the study. This could include considerations related to the availability and accessibility of the required inputs, as well as any potential challenges or barriers to adoption by commercial growers. <p>These could further enhance the depth, applicability, and practical relevance of the study, providing valuable insights for researchers, growers, and stakeholders in the field of ornamental crop production and sustainable agriculture.</p>	
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<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>The language and English quality of the manuscript are generally suitable for scholarly communication. However, there are instances where minor improvements in language clarity and grammar could be made to enhance the overall readability and precision of the text. The authors may consider having the manuscript proofread by a professional language editing service or a native English speaker to ensure consistent quality and clarity throughout the text.</p>	
<p>Optional/General comments</p>	<p>1. The tables and figures effectively complement the text and aid in the presentation and interpretation of the results. However, the authors may consider providing more detailed descriptions or captions for some of the figures and tables to enhance their clarity and self-explanatory nature.</p> <p>2. The research methodology and data analysis approaches are well-described, allowing for potential replication or further investigation by other researchers in the field. However, the authors may consider including a brief discussion on the potential limitations or assumptions of the study, as well as suggestions for future research directions, to provide a more balanced and comprehensive perspective.</p> <p>3. While the discussion section effectively interprets the findings and relates them to existing literature, the authors may consider expanding on the practical implications or potential applications of the study's results. This could include recommendations for growers or stakeholders in the tuberose industry, as well as potential implications for sustainable agriculture or environmental conservation.</p> <p>4. The authors may also consider including a brief section or paragraph on the novelty or significance of their study, highlighting how it contributes to advancing knowledge or addressing existing gaps in the field of integrated nutrient management for ornamental crops.</p> <p>Overall, the manuscript is well-written and presents valuable research findings. By addressing the suggested revisions and incorporating additional insights or discussions, the authors can further enhance the quality and impact of their work.</p>	

PART 2:

	Reviewer's comment	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>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

Reviewer Details:

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