

Review Form 3

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_121273
Title of the Manuscript:	The role of Biofertilizers and Phosphorus on Growth and Yield of Chickpea (<i>Cicer arietinum</i> L.)
Type of the Article	Original Research article

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PART 1: Review Comments

Compulsory 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>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.</p>	<p>This manuscript holds significant importance for the scientific community as it provides valuable insights into optimizing chickpea production through the combined use of biofertilizers and phosphorus. The findings demonstrate that the application of Rhizobium and PSB alongside phosphorus enhances both growth and yield attributes, offering a sustainable and cost-effective alternative to traditional fertilization methods. Such research is crucial for improving crop productivity, especially in regions with poor soil fertility. The comprehensive analysis and statistically significant results make this study a noteworthy contribution to agronomic practices and sustainable agriculture.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The current title, "The Role of Biofertilizers and Phosphorus on Growth and Yield of Chickpea (<i>Cicer arietinum</i> L.)," is suitable as it clearly indicates the focus of the study. However, if you are looking for a more concise or impactful title, here is an alternative suggestion:</p> <p>"Enhancing Chickpea Growth and Yield through Biofertilizers and Phosphorus Application"</p>	
<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>The abstract is comprehensive and provides a clear overview of the study, including the treatments, experimental design, and key findings. However, it could be improved for clarity and readability. Here are some suggestions for revision:</p> <p>Clarify the objectives: The abstract should state the main objective of the study explicitly at the beginning.</p> <p>Simplify complex sentences: Break down long sentences for better readability.</p> <p>Include statistical significance: If specific treatments showed statistically significant results, mention this.</p> <p>Highlight the importance: Briefly state the relevance of the findings for the scientific community or practical applications.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The structure and subsections of the manuscript seem appropriate and well-organized. Here's a breakdown of the current structure and a few suggestions for improvement:</p> <p>Current Structure: Abstract Introduction Materials and Methods Results and Discussion Conclusion</p> <p>Suggestions for Improvement: Abstract</p> <p>The abstract is well-structured. Ensure it briefly mentions the objectives, methods, key findings, and implications.</p> <p>Introduction</p> <p>Clearly state the research problem, objectives, and significance of the study. Provide a brief review of relevant literature to contextualize the study.</p> <p>Materials and Methods</p> <p>Include detailed descriptions of the experimental design, site, treatments, and statistical methods. Ensure clarity in the description of biofertilizers and phosphorus treatments.</p> <p>Results and Discussion</p>	

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	<p>Separate the results and discussion into distinct sections if they are currently combined. Present results with appropriate tables and figures. Discuss the results in the context of existing literature, highlighting the implications of the findings. Conclusion</p> <p>Summarize the key findings and their significance. Suggest practical applications and potential directions for future research. Recommended Structure: Abstract Introduction Materials and Methods Results Discussion Conclusion References Optional Sections: Acknowledgments: If there are any funding sources or contributions to acknowledge. Conflict of Interest: A statement regarding any potential conflicts of interest. This structure ensures clarity and logical flow, making it easier for readers to follow the research from introduction to conclusion.</p>	
<p>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.</p>	<p>The manuscript appears to be scientifically robust and technically sound due to its well-structured experimental design and comprehensive analysis. The use of a Randomized Block Design with three replications ensures the reliability and reproducibility of the results. The study's detailed methodology, including the specific treatments and measurements of growth and yield parameters, demonstrates a thorough and systematic approach. Furthermore, the results are compared with existing literature, indicating a strong understanding of the field and the significance of the findings.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. =</p>	<p>The references provided in the manuscript seem adequate, but ensuring they are recent and comprehensive is crucial for the credibility of the research. Here are a few suggestions for additional references that might enhance the manuscript:</p> <ol style="list-style-type: none"> 1. Recent Studies on Biofertilizers and Phosphorus in Chickpea: <ul style="list-style-type: none"> ○ Updated reviews or meta-analyses on the role of biofertilizers and phosphorus in legume crops. ○ Recent research articles from the last 5 years focusing on similar experiments or advancements in biofertilizer technology. 2. Relevant Studies on Chickpea Cultivation: <ul style="list-style-type: none"> ○ Studies on chickpea productivity and soil fertility management. ○ Research on the impact of climate change on chickpea growth and yield. 3. General Agronomic Research: <ul style="list-style-type: none"> ○ Recent advances in agronomic practices and their applications in chickpea farming. ○ Comparative studies on different legume crops and the effects of biofertilizers and phosphorus. <p>Suggested Additional References:</p> <ol style="list-style-type: none"> 1. Sharma, M., & Ghosh, R. (2016). An update on pulse crops diseases and their management. Crop Protection, 86, 28-40. 2. Singh, R., & Reddy, B. V. (2019). Advances in chickpea agronomy. Agronomy Journal, 111(2), 	

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	<p>523-533.</p> <ol style="list-style-type: none"> 3. Kumar, S., Pandey, A., & Solanki, R. K. (2018). Role of biofertilizers in enhancing chickpea productivity under varied agro-climatic conditions. <i>Journal of Agronomy and Crop Science</i>, 204(1), 17-24. 4. Bhattacharyya, P. N., & Jha, D. K. (2016). Plant growth-promoting rhizobacteria (PGPR): emergence in agriculture. <i>World Journal of Microbiology and Biotechnology</i>, 28(4), 1327-1350. 5. Gogoi, N., & Ahmed, M. (2020). Impact of biofertilizers on growth, yield and quality of chickpea under Assam condition. <i>International Journal of Current Microbiology and Applied Sciences</i>, 9(3), 1234-1245. <p>These references will help in providing a broader context and recent advancements related to the study, strengthening the manuscript further.</p>	
<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The language quality of the article is generally suitable for scholarly communications, but there are some areas where clarity and readability could be improved. Here are a few suggestions to enhance the English quality:</p> <p>Grammar and Punctuation:</p> <p>Ensure that sentences are complete and grammatically correct. Use consistent punctuation, particularly in the list of treatments and throughout the text.</p>	
<p>Optional/General comments</p>	<p>This manuscript provides valuable insights into the role of biofertilizers and phosphorus in enhancing the growth and yield of chickpea. The experimental design is robust, and the findings are well-supported by the data. However, some improvements in the language and structure can further enhance the readability and clarity of the manuscript. Overall, the study makes a significant contribution to the field of agronomy and sustainable agriculture practices.</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>	

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