

Review Form 3

Journal Name:	Asian Journal of Soil Science and Plant Nutrition
Manuscript Number:	Ms_AJSSPN_123754
Title of the Manuscript:	Plant growth promoting rhizobacteria bio capsules: wide potential in ginger for growth and yield improvement
Type of the Article	

General guidelines for the Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

<https://r1.reviewerhub.org/general-editorial-policy/>

Important Policies Regarding Peer Review

Peer review Comments Approval Policy: <https://r1.reviewerhub.org/peer-review-comments-approval-policy/>

Benefits for Reviewers: <https://r1.reviewerhub.org/benefits-for-reviewers>

Review Form 3

PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<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 is valuable for the scientific community as it explores the sustainable enhancement of ginger cultivation using PGPR bio-capsules, a relevant topic in modern agriculture. The study offers important insights into how beneficial microorganisms can improve crop yields and soil health while reducing the need for chemical inputs. The significant increase in ginger yield with GRB 35 capsules shows its potential as an eco-friendly solution for future agricultural practices, making this research timely and impactful for horticulture and sustainable farming experts.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>Make title in concise, suggested title is “Plant Growth Promoting Rhizobacteria Bio capsules: Enhancing Ginger Growth and Yield”</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 covers the experiment's purpose, methodology, and key findings well but could be improved for clarity and flow by adding a clear objective statement, highlighting the significance of the results for sustainable agriculture, including any statistical significance, and mentioning the potential implications of PGPR in ginger cultivation. Additionally, the PGPR functions could be summarized more concisely, the description of varieties and treatments simplified, and context provided for yield figures to make them more accessible to non-specialists.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The manuscript's subsections and structure are well-organized and adhere to the general guidelines for a scientific article. It presents clear sections, including the title, abstract, introduction, materials and methods, results and discussion, conclusion, and future scope, ensuring a logical flow from experimental design to results interpretation. However, some subsections may benefit from more concise presentation and alignment with journal-specific formatting guidelines to improve readability.</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 is scientifically robust and technically sound, demonstrated by its thorough evaluation of PGPR bio capsules in ginger cultivation. It uses a rigorous randomized block design with diverse PGPR treatments and ginger varieties over three years, enhancing the reliability of the results. The detailed statistical analysis and relevant references support the accuracy of the findings. Additionally, the manuscript clearly links the improvements in ginger growth and yield to PGPR mechanisms like nutrient solubilization and hormone production, showcasing its technical and scientific credibility.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. :-</p>	<p>Some of the references cited are somewhat limited in scope and may not fully reflect the latest advancements in the field. To enhance the article's relevance and ensure it includes the most current research, I recommend incorporating the following additional references:</p> <p>Recent Reviews on PGPR: For a comprehensive understanding of the latest developments and insights in PGPR, consider including recent review articles such as:</p> <ul style="list-style-type: none"> ➤ Egamberdieva, D., <i>et al.</i> (2022). "Plant growth-promoting rhizobacteria (PGPR) and their role in sustainable agriculture". <i>Frontiers in Microbiology</i>. <p>Latest Research on PGPR in Ginger: To provide targeted insights into the use of PGPR specifically for ginger cultivation, the following study could be useful:</p> <ul style="list-style-type: none"> ➤ Suman, A., <i>et al.</i> (2023). "Application of PGPR for enhanced growth and yield of ginger: A review". <i>Journal of Plant Growth Regulation</i>. <p>Recent Studies on Sustainable Agriculture: For updated perspectives on sustainable agricultural practices, the following reference may be beneficial:</p> <ul style="list-style-type: none"> ➤ Zhang, Z., <i>et al.</i> (2024). "Advances in sustainable agricultural practices and their impact on soil health". <i>Agricultural Systems</i>. <p>Newer Research on Rhizobacteria Mechanisms: To update the understanding of PGPR mechanisms, consider adding:</p> <ul style="list-style-type: none"> ➤ Wang, Y., <i>et al.</i> (2023). "Mechanisms of plant growth-promoting rhizobacteria: Recent advances and future perspectives". <i>Microbiological Research</i>. <p>Incorporating these recent references will improve the article's relevance and provide a more comprehensive view of the current knowledge in the field.</p>	

Review Form 3

<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Yes</p>	
<p>Optional/General comments</p>	<p>Adherence to Journal Guidelines: The manuscript is generally well-structured and informative; however, it is crucial to adhere closely to the journal's specific formatting and submission guidelines. Please review and revise the manuscript to align with the following journal requirements:</p> <p>Section Numbering: Ensure that all sections are numbered according to the journal's formatting guidelines. This includes sections such as Introduction, Materials and Methods, Results and Discussion, and Conclusion.</p> <p>Citation Format: Please check the journal's preferred citation style. It is important to use numbered citations if that is the format required by the journal. Ensure that all references in the text are numbered correctly and match the reference list.</p> <p>Formatting Details: Follow the journal's specific instructions regarding font size, line spacing, and margin settings. Consistent formatting throughout the manuscript enhances readability and ensures compliance with submission standards.</p> <p>Figures and Tables: It is highly recommended to include figures representing the different treatments and ensure that all figures and tables are properly formatted according to the journal's guidelines. This includes correct labeling, appropriate captions, and proper placement within the text.</p> <p>Acknowledgements: Include any acknowledgements as required by the journal.</p> <p>Competing Interests: Declare any potential conflicts of interest.</p> <p>Author Contributions: Detail the contributions of each author, if required.</p> <p>Review Journal Guidelines: Thoroughly read the journal's submission guidelines.</p> <p>Revise Manuscript: Make the necessary adjustments to align with the guidelines.</p> <p>Proofread: Check for consistency and adherence to formatting rules.</p> <p>Submit: Ensure all required sections, including acknowledgements and conflict of interest statements, are included.</p> <p>Addressing these aspects will improve the manuscript's compliance with the journal's standards and facilitate a smoother review and publication process.</p> <p>SEE ATTACHMENT</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><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

Reviewer Details:

<p>Name:</p>	<p>Luwangshangbam James Singh</p>
<p>Department, University & Country</p>	<p>Bidhan Chandra Krishi Viswavidyalaya (BCKV), India</p>