

Review Form 1.7

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_119784
Title of the Manuscript:	ROLE OF ZINC AND SILICA SOLUBILIZING BACTERIA AND THEIR CONSORTIA ON NUTRIENT STATUS OF SOIL AND PLANT IN DIRECT SOWN PADDY UNDER FIELD CONDITIONS
Type of the Article	Research article

General guideline for 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 guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	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>Compulsory 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>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<ol style="list-style-type: none"> 1. Yes, this manuscript is important for the scientific community as it provides valuable insights into the use of zinc and silica solubilizing bacteria and their consortia to enhance nutrient availability in soil and nutrient uptake by rice plants. By demonstrating significant improvements in the levels of essential nutrients like nitrogen, phosphorus, potassium, zinc, and silica in both soil and plants, the study suggests a potential for increased crop yields and better grain quality. This research contributes to sustainable agricultural practices and could help address nutrient management challenges in rice cultivation. 2. The title of the article, "Role of Zinc and Silica Solubilizing Bacteria and Their Consortia on Nutrient Status of Soil and Plant in Direct Sown Paddy Under Field Conditions," is suitable but could be more concise and specific. Here is an alternative title: "Impact of Zinc and Silica Solubilizing Bacteria on Soil Nutrient Availability and Paddy Growth Under Field Conditions" 3. Yes, the abstract of the article is comprehensive. It provides a clear overview of the study's objectives, methods, key findings, and conclusions. The abstract outlines the effect of zinc and silica solubilizing bacteria and their consortia on nutrient availability in soil and nutrient uptake by paddy plants, specifying the treatments used and the significant results observed at different stages of plant growth. This gives readers a concise summary of the research and its implications. 4. Yes, the subsections and structure of the manuscript are appropriate. It is organized into the following clear sections: Abstract - Summarizes objectives, methods, results, and conclusions. Introduction - Provides background, importance, and study objectives. Materials and Methods - Details experimental design, treatments, sample collection, and analysis. Results and Discussion - Presents findings and interprets data on nutrient availability and plant concentration. Conclusion - Summarizes main findings and implications. This logical structure facilitates easy comprehension of the study 5. Yes, the manuscript appears scientifically correct. It presents a well-designed study with clear methodology, appropriate treatments, and thorough analysis of nutrient content in soil and plants, supporting its findings with relevant data. 6. The references in the manuscript appear to be sufficient and relevant, covering key methodologies and supporting information. However, there could be an inclusion of more recent studies to ensure the findings are up-to-date. Here are a few suggestions for additional references: More recent research on zinc and silica solubilizing bacteria in agriculture. Studies on biofertilizers and their impact on nutrient availability and plant growth. Recent advancements in sustainable agricultural practices and soil health management. Including these could enhance the depth and currency of the manuscript's literature review. 	
<p>Minor REVISION comments</p> <ol style="list-style-type: none"> 1. Is language/English quality of the article suitable for scholarly communications? 	<p>Yes, the language and English quality of the article are generally suitable for scholarly communications. The manuscript is clear, concise, and well-structured, effectively conveying the research objectives, methods, results, and conclusions. However, minor grammatical corrections and improvements in sentence structure could enhance readability and clarity further.</p>	
<p>Optional/General comments</p>	<p>The manuscript addresses an important topic in agriculture, focusing on zinc and silica solubilizing bacteria's role in enhancing nutrient availability for paddy cultivation. It is well-structured with clear sections that logically present the research objectives, methods, results, and conclusions. The methodology is robust, and the results are effectively interpreted in relation to existing literature. Language quality is generally suitable for scholarly communication, though minor improvements in grammar and sentence structure could enhance clarity. Including more recent references and visual aids would further strengthen the manuscript's impact and readability. Overall, with some refinements, the manuscript holds promise for publication in a scholarly journal.</p>	

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PART 2:

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

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