

Review Form 3

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_124044
Title of the Manuscript:	Impact of Salicylic acid and Potassium silicate in ameliorating the drought stress effect on sorghum (<i>Sorghum bicolor</i> L. Moench)
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:

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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>
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.	His manuscript contributes to the growing field of plant physiology, particularly in understanding how foliar applications of salicylic acid and potassium silicate help sorghum tolerate drought stress. It provides valuable insights that could enhance agricultural productivity in water-scarce regions. The combination of biochemical and physiological measurements demonstrates a thorough experimental approach, although there are some areas for improvement to strengthen the scientific rigor.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title is suitable and accurately reflects the content of the study. No changes are required.	
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.	The abstract is comprehensive but could benefit from clearer distinctions between the different treatment outcomes. Including key statistical findings or percentage improvements for the main parameters (chlorophyll, proline, etc.) would enhance the clarity and impact of the results summary.	
Are subsections and structure of the manuscript appropriate?	The structure follows a logical flow with clear sections for methodology, results, and discussion. However, more detailed descriptions of the statistical analysis and discussions connecting the results to existing literature are necessary.	
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.	The manuscript is scientifically sound in terms of its experimental design and choice of parameters. The use of a split plot design and replication adds credibility to the findings. However, there is a lack of mechanistic detail explaining how salicylic acid and potassium silicate work at the molecular level to enhance drought tolerance. Addressing this would elevate the scientific rigor of the paper.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references are mostly sufficient, though a few more recent studies could be included to strengthen the context around the use of potassium silicate in drought stress. For example, references to silicon-mediated mechanisms in drought resistance from studies published within the last five years would be beneficial.	

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<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The manuscript's language is generally acceptable but requires some revision for grammatical correctness and readability. Complex sentences should be simplified, and any vague statements should be made more specific. I will upload a file containing the linguistic corrections.</p>	
<p>Optional/General comments</p>	<p>This article addresses an important topic in plant physiology, focusing on the role of salicylic acid and potassium silicate in enhancing drought tolerance in sorghum, a key crop in many arid regions. The study is well-structured, with a clear objective and a sound experimental design. The use of a split plot design and detailed measurements of physiological and biochemical parameters add credibility to the results.</p> <p>However, there are several areas where the manuscript could be improved:</p> <p>Depth of Analysis: The discussion would benefit from more in-depth mechanistic explanations of how salicylic acid and potassium silicate improve drought tolerance, perhaps drawing from recent molecular studies.</p> <p>Clarity and Grammar: The manuscript has several grammatical issues and could be made clearer, especially in the presentation of results. Simplifying complex sentences and improving the flow of ideas will enhance readability.</p> <p>Contextualizing Results: More emphasis should be placed on comparing the findings with other studies in the field to better situate the research within the broader scientific context.</p> <p>Practical Implications: Expanding the discussion on the practical applications of the findings for farmers dealing with drought could significantly enhance the article's impact.</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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