

Review Form 1.7

Journal Name:	Asian Journal of Research in Crop Science
Manuscript Number:	Ms_AJRCS_112706
Title of the Manuscript:	Minimizing the effect of low moisture stress in pearl millet (<i>Pennisetum glaucum</i> L.) by regulating growth, yield and antioxidant defense system via foliar applied silicon.
Type of the Article	Original Research Article

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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><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ol style="list-style-type: none"> 1. Yes, the manuscript discussing the foliar application of silicon to mitigate low moisture stress in pearl millet is important for the scientific community. It offers insights into a sustainable approach to enhance crop resilience to drought, addressing crucial challenges in agricultural productivity and food security, particularly in arid and semiarid regions where pearl millet is cultivated. 2. The title "Minimizing the Effect of Low Moisture Stress in Pearl Millet (Pennisetum glaucum L.) by Regulating Growth, Yield, and Antioxidant Defense System via Foliar Applied Silicon" is suitable as it accurately reflects the content and focus of the manuscript. However, if a more concise title is desired, an alternative could be: "Enhancing Pearl Millet Resilience to Drought with Silicon Foliar Application" 3. The abstract provides a clear overview of a pot experiment investigating the effects of foliar-applied silicon on growth, yield, and antioxidant activity in pearl millet under normal and drought stress conditions. Results show that silicon application, particularly at 5.0 mmol/L, significantly improves growth and yield traits while enhancing antioxidant activity. The findings suggest that foliar application of silicon could effectively mitigate the negative impacts of low moisture stress on pearl millet crops, offering valuable insights for future research in stress management strategies. 4. Yes 5. Yes 6. Including graphs or other visual aids could enhance the readability and effectiveness of the manuscript. Suggested graphs: (i) Growth and yield parameters under different silicon treatment levels. (ii) Antioxidant enzyme activity under normal and drought stress conditions with and without silicon treatment. <p>Overall, supplementing the references with recent literature and incorporating visual aids would improve the comprehensiveness and impact of the manuscript.</p>	
<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 quality of the article is suitable for scholarly communication, though minor revisions for clarity and conciseness may be beneficial.</p>	
<p>Optional/General comments</p>	<p>The overall concept of the article is commendable and provides valuable information for the scientific community. It addresses an important issue in agricultural research and offers practical insights into the use of silicon for mitigating low moisture stress in pearl millet. This contribution enhances our understanding of sustainable strategies for improving crop resilience and productivity, thereby benefiting researchers, practitioners, and policymakers in the field of agriculture.</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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