

Review Form 3

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_120311
Title of the Manuscript:	Alternate Wetting and Drying (AWD) Irrigation using cost-effective pani pipe method for smart water management system in rice cultivation
Type of the Article	

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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 few sentences regarding the importance this manuscript for scientific community. Why do you like (or dislike) this manuscript? Minimum 3-4 sentences may be required for this part.</p>	<p>This manuscript offers significant insights into the application of Alternate Wetting and Drying (AWD) irrigation using a cost-effective pani pipe method in rice cultivation. Its importance lies in its practical approach to addressing the global challenge of water scarcity in agriculture, particularly in rice production, which traditionally consumes large quantities of water. By demonstrating the effectiveness of AWD in reducing water use while maintaining high yields, the study provides a valuable resource for researchers and practitioners aiming to promote sustainable agricultural practices. The manuscript is commendable for its clear methodology, detailed results, and practical implications, making it a noteworthy contribution to the scientific community focused on water management and rice cultivation.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The title of the article, "Alternate Wetting and Drying (AWD) Irrigation using cost-effective pani pipe method for smart water management system in rice cultivation," is generally suitable but could be refined for clarity and impact. Here are a few points to consider: -Clarity and Focus: The title clearly indicates the main topic (AWD irrigation) and the method used (pani pipe). However, it might benefit from a more precise description of the study's key outcomes or benefits. -Length: The title is a bit lengthy. Shortening it while retaining essential information could make it more impactful. -Specificity: Including specifics about the key findings, such as the water savings or economic benefits, might make the title more compelling.</p>	
<p>Is the abstract of the article comprehensive? Do you suggest addition (or deletion) of some points in this section? Please write your suggestions here.</p>	<p>The abstract provides a good overview of the study, including the context, methodology, results, and conclusions.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The structure and subsections of the manuscript are generally appropriate but could benefit from some refinements for clarity and coherence.</p>	
<p>Please write few sentences regarding the scientific correctness of this manuscript. Why do think that this manuscript is scientifically robust and technically sound? Minimum 3-4 sentences may be required for this part.</p>	<p>The manuscript demonstrates scientific robustness and technical soundness through its well-structured experimental design and comprehensive analysis of Alternate Wetting and Drying (AWD) irrigation methods using the pani pipe technique. The study systematically evaluates the effectiveness of AWD in improving water management, yield, and economic returns in rice cultivation, utilizing both quantitative and qualitative data. The methodology, including the use of field water tubes for precise water level monitoring, is appropriately detailed and aligns with established practices for assessing irrigation efficiency. Additionally, the statistical analysis of yield data, technology gap, and economic outcomes is rigorously conducted, providing a solid basis for the study's conclusions. Overall, the manuscript is grounded in reliable scientific principles and offers practical insights into sustainable water management in rice farming.</p>	
<p>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. =</p>	<p>The references cited in the manuscript are generally sufficient and relevant to the study of Alternate Wetting and Drying (AWD) irrigation methods and their impact on rice cultivation. They cover a range of studies related to water management, AWD practices, and economic analyses in rice farming.</p>	

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Minor REVISION comments Is language/English quality of the article suitable for scholarly communications?	The language and English quality of the manuscript are generally suitable for scholarly communication but could benefit from a few improvements to enhance clarity, coherence, and readability	
Optional/General comments		

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)
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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