

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>YES, the manuscript topic and subject area is important for the scientific community. Irrigation and smart water management procedures are huge enablers to more effective and efficient agricultural practices and production. As also noted, a significant amount of water can be saved and higher paddy yields can be achieved by using alternate wetting and drying (AWD) irrigation methods, resulting in an average 35% reduction in irrigation water consumption per hectare. Such irrigation and smart water management processes have numerous advantages which includes: increased crop yield and quality, efficient use of water resources, precision agriculture, cost savings and environmental sustainability amongst others. Therefore, implementing these systems can lead to a more sustainable and profitable agricultural practice, addressing the challenges of water scarcity and climate change while ensuring food security.</p> <p>This topic explored relevant and modern theories on irrigation and smart water management practice in agriculture, with a very practical and useful case study. Furthermore, it an innovative approach; and also a clear, logical and relevant methodology.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>YES; the title of the article is suitable and captures the aims and relevant theories of the research work.</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>NO; the abstract is not comprehensive; as it does not provide the brief aim and problem statement of the research work; though it contained the summarised method employed, results obtained and conclusion, which are also relevant. It should be reviewed to fully reflect the core purpose of the research works and findings/conclusions.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>NO; the subsections and structure of the article were not appropriate. The subsections and sub-titles labelling, should utilise numbering formats like: 1.1, 1.2,...; 2.1, 2.2, ...; 3.1, 3.2...; 4.1, 4.2,...; 5.1, 5.2; from the Introduction to the Conclusion section respectively. Such structural labelling does not appear in the research work; and should be added to improve readability and ease of reference of various sections of the research in line with standard best practices of scholarly research. Furthermore, there should be adequate spacing between subsequent sections heading for improved readability and the "Discussion" section after RESULTS; should also be in capital lettering. The conclusion was observed to adequately 'tie together' the relevant elements of the paper.</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 is scientifically correct, with up to date information; and appropriate methodology. Additionally, the relevant datasets used and data source(s) information would need to be presented or the data source link also shared as part of the table labelling. This extra information on the datasets will aid the reliability of the paper and ease replication, which is an important factor for such scientific scholarly research.</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 are sufficient and recent; and should be well arranged in the "References" section.</p>	

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<p><u>Minor REVISION</u> comments</p> <p>Is language/English quality of the article suitable for scholarly communications?</p>	<p>YES; the English language quality of the article is very well suitable for scholarly publication and communication</p>	
<p><u>Optional/General</u> comments</p>	<p>The paper identifies very good implications for research, practice and society; and it also has excellent potentials to provide practical solutions to developing and developed economies; in addition to creating a good harmony between theory and practice. A very good, insightful and practically innovative research work with appropriate methodologies and results; but some adjustments and additions will be needed; which are the proper labeling of sub sections of the work, improved arrangement and formatting of the work, aimed at improving the quality of the paper with respect to the structure of the paper. More information is also needed, such as the availability of the sample (data or data source(s) links) used for the analyses and other related information, to improve the quality of the paper for journal readership and to aid replication. Additionally, more attention must also be paid to the clarity of expression and readability of the paper.</p>	

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>
<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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