

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_108583
Title of the Manuscript:	Performance of climate smart rice varieties in Dibrugarh district of Assam
Type of the Article	ORIGINAL RESEARCH ARTICLE

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"> Is the manuscript important for scientific community? (Please write few sentences on this manuscript) Is the title of the article suitable? (If not please suggest an alternative title) Is the abstract of the article comprehensive? Are subsections and structure of the manuscript appropriate? Do you think the manuscript is scientifically correct? 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>	<p>The research demonstrates significant relevance in addressing a critical issue in Assam, where rice plays a central role in the food and economic security of the population. The introduction is clearly written, establishing the importance of rice as the main cereal crop in Assam and identifying the challenges faced due to the region's propensity for seasonal floods and droughts. These climate challenges are particularly relevant as they may be exacerbated by global climate change. The choice of climate-adapted rice varieties as the subject of study is highly relevant as it offers a practical approach to mitigate the impacts of adverse climatic conditions on rice production. The methodology used in the study is solid and well described. The research conducted trials on seven agricultural fields in two different villages in Dibrugarh, Assam, during the 2022 kharif season. The fields were carefully selected and elaborate soil analyzes were carried out before planting. The three types of rice tested include CR Dhan 801, CR Dhan 802 (climate-adapted varieties) and Ranjit sub 1 (a submergence-tolerant variety, used as a control). The data resulting from the research are presented in Table 1 and include information on plant height, duration, number of practical profiles per stalk, panicle length, number of grains per panicle, weight of 1000 grains, grain yield, net return, ratio benefit- cost and monetary productivity. The results indicate that CR Dhan 802 performed best, with superior plant height, yield characteristics and productivity compared to the other varieties. CR Dhan 801 also showed solid results, while Ranjit sub 1 gradually lagged behind the climate-smartly adapted varieties. These results suggest that climate-friendly and adapted rice varieties can be a beneficial choice for farmers in Dibrugarh, Assam, considering both yield and economic aspects. The title of the article is appropriate and accurately reflects the content and objective of the research. The references found are updated and relevant to the research, which increases the reliability and relevance of the findings.</p>	
<p>Minor REVISION comments</p> <ol style="list-style-type: none"> Is language/English quality of the article suitable for scholarly communications? 	<p>.....</p>	
<p>Optional/General comments</p>	<p>.....</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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