

Review Form 3

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_131142
Title of the Manuscript:	IMPACT OF CLIMATE CHANGE ON YIELD OF MAJOR CEREALS IN INDIA AND NEPAL: A MICRO REGIONAL ANALYSIS
Type of the Article	

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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: Comments

	Reviewer's comment Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.	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. A minimum of 3-4 sentences may be required for this part.	This paper adds to the expanding corpus of research on the effects of climate change on agricultural production, particularly in South Asia. Rice and wheat are essential crops in India and Nepal, therefore, understanding how they respond to climatic factors is critical for food security and policies. The inclusion of long-term temporal data (1980-2016) improves the dependability of the findings, while the micro-regional method gives unique localized insights that are sometimes neglected in larger national research. Furthermore, the study's use of local adaptation tactics helps in providing prospective direction for climate resilience measures in agriculture.	
Is the title of the article suitable? (If not please suggest an alternative title)	In general, the title typically captures the manuscript's focus although it might be more specific. A possible substitute title may be: Analysis of Climate Change Impact on Rice and Wheat Yields in Rupandehi (Nepal) and Varanasi (India): A Micro Regional Analysis.	
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 offers a basic summary of the study but I suggest the following improvement for clarity: To enhance the grammar, replace the phrase "three main climatic variable" with "three main climatic variables". Replace the phrase "climatic variables have a greater impact on rice and wheat yield in Rupandehi district, 48% in rice and 16% in wheat," with "Climate factors were responsible for a 16% decrease in wheat output and a 48% decrease in rice yield in Rupandehi district". Replace the sentence "adverse effect of maximum temperature and rainfall are responsible in kharif season" with "The decrease in agricultural output during the kharif season is mostly caused by higher maximum temperatures and erratic rainfall patterns". Finally, the abstract would be more thorough if particular adaption tactics employed by farmers were briefly mentioned.	
Is the manuscript scientifically, correct? Please write here.	Yes. Because the study has adopted multiple linear regression model which is a well-known statistical method for climate impact studies. However, inclusion of the following would greatly benefit the manuscript: Data pre-processing techniques applied to the temporal data should be included to the method to assure the validity of the data before analysis. For example the study used weather station climate data but didn't mentioned how the missing data were filled.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	References seem old and insufficient to me. Therefore, I recommend the authors to include some recent references to Introduction and Result and discussion part of the manuscript.	
Is the language/English quality of the article suitable for scholarly communications?	The English quality of the article has some grammatical issues, sentence structure problem and typos error. Therefore, I recommend the authors to go through the manuscript line by line to fix the language issues.	
Optional/General comments	If these mentioned comments are included, the manuscript seems good to be published in IJECC.	

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>
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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