

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_102522
Title of the Manuscript:	Development of rice yield forecasting model using linear regression for Imphal west district, Manipur
Type of the Article	Original Research Article

General guideline for Peer Review process:

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 guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journalijecc.com/index.php/IJECC/editorial-policy>)

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PART 1: Review Comments

		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> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) Yes</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title) May be changed</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<p>The manuscript is important for scientific community to know the significance of variables affecting the rice yield. This will help in identifying critical stages in crop development as well as in monitoring.</p> <p>Rice yield forecasting using stepwise linear regression for Imphal west district, Manipur, India</p> <p>Yes</p> <p>Need to be revised</p> <p>Yes</p> <p>Need to be checked. Many listed references not coming in text.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	Major revision required	
<p>Optional/General comments</p>	<p>The author used linear regression model for rice yield forecasting in Imphal west district, Manipur. After reviewing the manuscript, following observations came out.</p> <ol style="list-style-type: none"> 1. There is no uniformity in writing the references. Many references that is listed at the last, not mentioned anywhere in the text. 2. Instead of using R-square, author should use adjusted R-square for checking adequacy of model as R-square is not a good choice whenever model adequacy is concern. 3. The manuscript has been written using both present and past tense at many places. It may be corrected throughout the paper in past tense only. 4. Reframe the sentences grammatically. Words in middle of sentences started with capital letter at some places. Many places, there is no clarity while reading manuscript. This should be avoided in entire manuscript. 5. In result and discussions, interpret R-square properly. It shows percentage of variation explained by the model. The author should also mention which regression coefficients were significant and at what level of significance? 6. The author started with 115 independent variables as mentioned in methodology. There is a need to evaluate variance inflation factor (VIF) for independent variables to detect any possible multicollinearity in data. Generally, the independent variable having VIF greater than 10 is considered as multi-collinear. 7. The author is advised to go through the track change mode of manuscript and modify the 	

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	<p>paper accordingly.</p> <p>8. There is a need to check the assumptions of linear regression related to residuals and independent variables.</p> <p>9. In addition, the author may use the remedial measures if the model is violating any assumptions of least square.</p> <p>10. The result and discussions need more clarification and conclusion may be elaborated.</p> <p>11. At last, in stepwise regression, we got one model based on the contribution of independent variables in the model. What is need of mentioning here five models or is it correct way of representation?</p>	
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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>	

Reviewer Details:

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