

## Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_96334
Title of the Manuscript:	Character association studies for yield and quality traits in rice ( <i>Oryza sativa</i> L.)
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> )

### 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><b>Compulsory</b> REVISION comments</p> <p>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p>3. <b>Is the abstract of the article comprehensive?</b></p> <p>4. <b>Are subsections and structure of the manuscript appropriate?</b></p> <p>5. <b>Do you think the manuscript is scientifically correct?</b></p> <p>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b> <b>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</b></p>	<p>-Traits like panicle weight per plant, fertile spikelets per panicle, harvest index, and biological yield per plant are having a high direct effect and significant correlation with grain yield per plant, and traits like milled grain length-width ratio, hulling %, and alkali spreading value are having a high direct effect and significant correlation with head rice recovery.</p> <p>-Direct selection based on these traits for improvement of rice grain yield and grain quality can be effective.</p> <p>-Character association analysis revealed that direct selection can be possible for the traits which are having a very high direct effect and strong positive correlation with grain yield per plant and head rice recovery for improvement in yield and grain quality in rice respectively</p> <p>The title of the article is suitable</p> <p>The is abstract of the article comprehensive</p> <p>Subsections and structure of the manuscript are appropriate</p> <p>The manuscript is scientifically correct</p> <p>The references are sufficient and recent</p>	
<p><b>Minor</b> REVISION comments</p> <p>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></p>	English quality of the article suitable for scholarly communications	
<p><b>Optional/General</b> comments</p>	<p>-A correlation coefficient is a statistical measure that is used to find out the degree and direction of the relationship between two or more variables working at the same time. It also helps to know how the improvement in one character will bring simultaneous change in other characters.</p> <p>-While path analysis splits the correlation coefficient into direct and indirect effects which specify the relative contribution of each character (Shanthala <i>et al.</i>, 2004).</p> <p>-A study about the contribution of the direct and indirect effects of each character towards yield or quality traits could be an added advantage in aiding the selection process (Babu <i>et al.</i>, 2012). In the present paper, the correlation and path coefficients have been evaluated to estimate the contribution of characters on grain yield in rice.</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)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	

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