

Review Form 1.6

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_78624
Title of the Manuscript:	Genetic variability, character association and path analysis for yield and its related traits in rice (<i>Oryza sativa</i> L.) genotypes
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.journalijpss.com/index.php/IJPSS/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)
<u>Compulsory</u> REVISION comments	<p>In correlation analysis it is found that decreasing panicle length leads to increasing number of filled grain per panicle and yield. But the number of secondary branches in the panicles is not considered. In general secondary branches produce more number of grains. Therefore, it should be included.</p> <p>Interpretation of path analysis should be revised. Residual effect is most important in path analysis. If the residual effect is more than 50%, in addition to the tested traits some other factors may be influence the trait, yield. Therefore, without mentioning the residual effect analysis result interpretation can't be accepted.</p> <p>Out of nine traits mentioned as positive and direct effect on grain yield, only five traits such as number of unfilled grains per panicle (0.740), kernel length (0.981), biomass yield (0.535), harvest index (0.843) and spikelet fertility percentage (0.877) are rated as high. The high rate of unfilled grain per panicle will not contribute high grain yield.</p> <p>The number of effective tillers is shown as 0.052 which is rated as negligible but here it is considered as a positive factor for contributing the yield.</p> <p>Perusal of the data indicated that some important factors are not included/missing when find a conclusion. The residual effect has to be included in the path analysis result, and then only the selection criteria proposed can be recommended.</p>	
<u>Minor</u> REVISION comments	<p>The correction made in the M.S may be included Check reference style and format both cited in the text and under reference section</p>	
<u>Optional/General</u> comments	<p>Introduction is well written Author has included adequate number of germplasm for evaluation</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:

Name:	Sreekumar, S
Department, University & Country	KSCSTE-Jawaharlal Nehru Tropical Botanic Garden And Research Institute, India