

**Review Form 1.7**

Journal Name:	<b>International Journal of Environment and Climate Change</b>
Manuscript Number:	<b>Ms_IJECC_109878</b>
Title of the Manuscript:	<b>Genetic parameters, correlation and path coefficient studies for selected agronomic traits in 19 maintainer genotypes of rice (<i>Oryza sativa</i> L.)</b>
Type of the Article	<b>Original Research Article</b>

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**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></p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>This manuscript is significant for the scientific community as it provides valuable insights into genetic parameters, correlations, and path coefficient studies for various agronomic traits in maintainer rice genotypes. The study contributes essential knowledge for the strategic design of effective breeding programs aimed at enhancing rice productivity. The findings could be particularly valuable for researchers, plant breeders, and professionals involved in rice breeding and genetics.</p> <p>The title is suitable as it accurately reflects the content and focus of the manuscript. It clearly conveys the key aspects of the study, allowing potential readers to understand the scope of the research.</p> <p>To enhance clarity, the abstract could briefly mention the specific traits investigated, contributing to the overall comprehensiveness.</p> <p>The manuscript follows a logical structure with well-defined sections, including Introduction, Materials and Methods, Results and Discussion, and Conclusion. This structure is appropriate for a scientific paper, allowing readers to navigate through the content easily. The use of subsections within the Results and Discussion section aids in organizing and presenting the findings systematically.</p> <p>The scientific content appears to be correct and methodologically sound. The manuscript employs established statistical methods, presents detailed genetic parameters, and discusses the implications of the findings. The use of appropriate references to previous studies enhances the scientific validity of the research.</p> <p>The references include a mix of classic and recent sources, and it's important to strike a balance. Consider searching for additional recent literature, especially in the rapidly evolving field of rice genetics, to ensure that your manuscript reflects the latest advancements and perspectives in the field.</p> <p><b>Additional comments:</b></p> <ol style="list-style-type: none"> <li>1. The manuscript frequently uses abbreviations for agronomic traits (e.g., DFF, PHT, CHT), and while these are defined in the text, it might be helpful to include a table or a brief section listing and explaining these abbreviations. This could enhance reader comprehension, especially for those less familiar with rice breeding terminology.</li> <li>2. The presence of a residual effect (0.5433) in the path coefficient analysis is mentioned, but its significance or interpretation is not discussed. Providing a brief explanation of the residual effect and its relevance to the study would add clarity to this aspect of the results.</li> <li>3. Consider adding tables or figures to visually summarize key findings, such as significant correlations or traits with high direct effects on grain yield per plant. Visual aids can improve the accessibility and clarity of complex information for readers.</li> <li>4. While the manuscript discusses the implications for breeding programs, additional suggestions for future research directions could be included.</li> </ol>	
<p><b>Minor</b> REVISION comments</p> <p>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></p>	<p>The language and English quality of the article are generally suitable for scholarly communication. The manuscript is well-written, and the use of formal and scientific language is consistent with the standards of academic writing. However, a thorough proofreading for minor grammatical and typographical errors could further enhance the</p>	

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	overall language quality. Please consider all comments in reviewed manuscript.	
<b>Optional/General</b> comments	NA	

**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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)
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

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