

**Review Form 3**

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|--------------------------|---|
| Journal Name:            | <b>Journal of Scientific Research and Reports</b>   |
| Manuscript Number:       | <b>Ms_JSRR_123424</b>   |
| Title of the Manuscript: | <b>Analysis of component of genetic variance, combining ability, gene action and heterotic response in rice (<i>Oryza sativa</i>. L).</b> |
| Type of the Article      |   |

### Review Form 3

#### **PART 1:** Review Comments

| <b>Compulsory</b> REVISION comments  | <b>Reviewer's comment</b> | <b>Author's Feedback</b> <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
|--|---------------------------|--|
| <b>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</b>                        |                           |  |
| <b>Is the title of the article suitable? (If not please suggest an alternative title)</b>  |                           |  |
| <b>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.</b>   |                           |  |
| <b>Are subsections and structure of the manuscript appropriate?</b>  |                           |  |
| <b>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</b> |                           |  |
| <b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>   |                           |  |

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| <p>Minor REVISION comments</p> <p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p> |  |  |
| <p><b>Optional/General</b> comments</p>  | <p>This manuscript confirms the Analysis of components of genetic variance, combining ability, gene action, and heterotic response in rice (<i>Oryza sativa</i>. L). However, there are still many problems in the manuscript, which need major modifications. Additionally, the English language of this draft should also be improved.</p> <ol style="list-style-type: none"> <li>1. In the abstract the paragraph.....Three crosses, including MTU-1010 × Barani Deep, showed considerable favourable benefits on grain yield due to specific combining ability (SCA)... describe the crosses but it is confusing which generation cross are authors talking about.</li> <li>2. Why NDR 2064 and Barani Deep have negative effects while analyzing general combinability give the reason.</li> <li>3. The introduction is very short and poorly written, many studies lack references, so it is important to add the current references to validate the study. Furthermore, the "(FAO, 2010)" is a very old report it is needed to add the most recent report of FAO about rice production, area, etc.</li> <li>4. I am surprised in the introduction only one reference is given and numbered as 10, it is not a scientific way to write an article. Authors are advised to follow the scientific writing style and format, start reference from 1.....n.</li> <li>5. The introduction lacks the specific mechanism of the study and the hypothesis of the research work, which is most important for any study. It is again advised to rewrite the introduction by reading relevant literature.</li> <li>6. The materials and methods sections are also poorly written like the introduction, at least it should describe the plant materials and growth conditions. Then the experimental traits and crosses kits should be mentioned in detail. Moreover, the manuscript lacks the statistical analysis. It needs to write everything in detail.</li> <li>7. Results are only written somehow well, the authors cited many references in the (Analysis of variance for the design of the experiment) and (Estimates of combining ability effects), which out any discussion. It is important to read the literature related to your research and write a discussion accordingly because it is not a scientific way to demonstrate the mechanism of your research. Need to write the discussion section in detail with a similar trend to your study.</li> <li>8. It is suggested to draw graphs related to your experimental mechanism as well as correlation analysis is important to describe the relation between different parameters to planting materials. Tabular data is hard to describe in smooth ways as well it is hard for readers to understand.</li> <li>9. The conclusion should be a summary of your results with a future prospective which is lacking in your manuscript. It is imperative to rewrite the conclusion and summarize your results with a complete mechanism related to your research work.</li> <li>10. Most importantly, the title of the research is deficient in the specific direction of research on maize, if it is about maize grain production or yield, it needs to be written in the title.</li> <li>11. In keywords instead of abbreviating the RBD, write the full form. Additionally, there are many grammatical mistakes in the manuscript which need serious concentration from the authors.</li> </ol> |  |

**Review Form 3**

**PART 2:**

|   | <b>Reviewer's comment</b>  | <b>Author's comment</b> <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> |
|---|--|---|
| <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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|----------------------------------|---|
| Name:                            | <b>Yasir Majeed</b>   |
| Department, University & Country | <b>College of Agronomy, Gansu Agricultural University, P.R. China</b> |