

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_104557
Title of the Manuscript:	Study of combining ability in association with heterosis 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>)

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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>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</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><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>1- The manuscript appears to be important for the scientific community as it provides valuable insights into the heterosis and combining ability analysis in rice. The study evaluates the performance of different rice crosses for various important traits, which can be crucial for developing improved rice varieties with higher yield and resistance to pests like gall midge. The findings of this study can be beneficial for rice breeders and researchers working on rice improvement and genetic studies.</p> <p>2- The title of the article "Heterosis and Combining Ability Analysis in Rice (<i>Oryza sativa</i> L.)" is suitable as it accurately reflects the main focus of the study. It highlights the key concepts of heterosis and combining ability analysis in rice, which are central to the research presented in the manuscript.</p> <p>3- The abstract of the article appears to be comprehensive as it provides a clear and concise summary of the study. It highlights the main objectives, methods, and key results, including the identification of top F1 crosses exhibiting significant heterosis and combining ability for yield-related traits and gall midge resistance.</p> <p>4- The subsections and structure of the manuscript seem appropriate as they follow a logical flow, starting with an introduction, materials and methods, results, discussion, and conclusion. The use of tables and figures enhances the presentation of data, making it easier to understand and interpret the results.</p> <p>5- Based on the information provided, the manuscript appears to be scientifically correct. The researchers have used appropriate statistical methods, such as line x tester analysis, to evaluate the combining ability and heterosis in rice hybrids. The data presented in the tables and figures seem to support the conclusions drawn by the authors.</p> <p>6- The references used in the manuscript appear to be sufficient and relevant to the study. However, it would be beneficial to ensure that the references are up-to-date and cover the most recent advances in the field of rice breeding and genetics. If possible, the authors may consider including some recent publications to strengthen the literature review and the context of their study.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Based on the information provided in the manuscript excerpts, the language and English quality appear to be suitable for scholarly communications. The text is well-written, coherent, and organized with proper scientific terminology.</p>	
<p>Optional/General comments</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)
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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