

**Review Form 3**

Journal Name:	<a href="#">Journal of Experimental Agriculture International</a>
Manuscript Number:	Ms_JEAI_125637
Title of the Manuscript:	<b>GENETIC DIVERGENCE ANALYSIS FOR QUANTITATIVE TRAITS IN RICE (<i>Oryza sativa</i> L.) GERMPLASM UNDER IRRIGATED CONDITIONS</b>
Type of the Article	

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**PART 1: Review Comments**

Compulsory REVISION comments	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
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.	The present work aims to evaluate variability and genetic parameters for optimizing yield rice. It is important because high yielding rice shared to reduce the food insecurity. Selection of rice lines genetically diversified will be enabled to develop the breeding purposes.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title of the article is suitable.	
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.	Abstract is poor. It is important to present the study area, describe the methods for statistical and genetic traits analysis for each parameter and bring out the key results which conclude that selection would be possible for improvement rice varieties.	
Are subsections and structure of the manuscript appropriate?	<p>Introduction: Although the paper had write well, it is important to correct the incoherence noted. Firstly, according to the requirements of methodology, scientific name must be written in italic. Authors mentioned two species of rice namely <i>Oryza sativa</i> (Asian rice) and <i>Oryza glaberrima</i>. Thus, the two species owned the same number of chromosome? Overall, in this section, there are a few reference associated to each sentence. Detailed more relatively to breeding programmes specifically the commercial cultivars which were previously developed regarding the food security. Problematic is not clear. According to the title, the present study was carried out on quantitative traits under irrigation. Authors must bring out the link between these traits and physiological conditions which affected the traits evaluated. Authors had not showed the effects of irrigation comparatively to rainy season rice. Though, estimation of genetic parameters had noted but correlation/relationship between traits studied because yield is a complex trait which controlled mainly by polygene. Section high yielding genotypes depend evidently to the interdependence. Authors must be done the principal components analysis (ACP) in order to complete the results.</p> <p>Materials and Methods: Precise the differently the site and experimental design. Detailed the statistical and genetic methods used for assessment of variability and genetic parameters using the formulas. In perspective, associated the local varieties to the lines rice used.</p> <p>Results and discussion: For ANOVA, results had not discussed with research work in accordance with yield and yield traits. For each trait, what the character which attested the effectiveness of efficient selection? For more comprehension, it is crucial to categorize the PCV and GCV heritability in broad sense and genetic advance estimated within High, medium or low and make the conclusion regarding the effective selection. All genetic characters must discussed with relevant references in order to clarify the ideas laid out on yield and its components. Harmonize the written in table with those in text (Calibri or time Newman). Table 6 is not presented very well. No references were mentioned concerning clusters analysis and clusters means.</p> <p>The conclusion had not done. Thereby, it not respected the methodology required. In conclusion, mentioned the useful of yield or its components referring variability and genetic parameters in order to conclude if the objectives were reached.</p> <p>References: Respected the guideline of journal</p>	
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	The manuscript paper response to supply demand. Thus, authors must be used as much as possible the references regarding previous studies in the introduction and discussion. The parameters estimated must be predict the efficient selection. Genetic traits were explained with appropriate formulas. Paper was scientifically well written. I suppose that suggestions will be	

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sentences may be required for this part.	exploited enabling to the authors to reject the paper.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	References are not sufficient	
<u>Minor</u> REVISION comments  Is the language/English quality of the article suitable for scholarly communications?	YES	
<u>Optional/General</u> comments		

**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)
Are there ethical issues in this manuscript?	<i>(If yes. Kindly please write down the ethical issues here in details)</i>	there are no ethical issues.

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