Review Form 3

Journal Name:	**Journal of Experimental Agriculture International**
Manuscript Number:	**Ms_JEAI_121140**
Title of the Manuscript:	**Yield Trait Association Studies through Principal Component Analysis in Bi-Parental Population Derived from indica/tropical japonica Inter Sub-Specific Cross in Rice (Oryza sativa L.)**
Type of the Article	**Original Research 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.	**It has been observed that derivatives of *indica/japonica* cross have higher yield vigour than either *indica/indica* or *japonica/japonica*. Therefore, author has taken into consideration to create interspecific (*indica/japonica)* hybrids to further boost the yield potential of rice. Further, evaluation of genetic diversity is also important to know the source of gene for a particular trait within the germ plasm. The investigator used Principal Component Analysis (PCA)to conduct mapping population derived from interspecific cross to identify the quantitative traits responsible for variation among the lines in the population**	
Is the title of the article suitable? (If not please suggest an alternative title)	**Yes**	
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.	**Yes**	
Are subsections and structure of the manuscript appropriate?	**yes**	
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.	**PCA is a well-known method of dimension reduction that can be used to reduce a large set of variables to a small set that still contains most of the information in the large set. The result of the PCA explained the genetic diversity of the genotypes. In the present PCA, a total of 11 principal components (PCs) were extracted, equivalent to the number of traits studied. The present manuscript is scientifically robust and technically sound.**	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	**Yes**	
Minor REVISION comments **Is the language/English quality of the article suitable for scholarly communications?**	Yes	
Optional/General comments	Can be accepted for publication	

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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?	*(If yes, Kindly please write down the ethical issues here in details)*	No

Reviewer Details:

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