

Review Form 3

Journal Name:	Journal of Experimental Agriculture International
Manuscript Number:	Ms_JEAI_123466
Title of the Manuscript:	Quantitative Assessment of Combining Ability and Gene Action in F1 generation of Pigeonpea (Cajanus cajan (L). Miilsp.)
Type of the Article	

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PART 1: Review Comments

<u>Compulsory</u> REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
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.	This study is pivotal for optimizing pigeon pea breeding programs by quantifying the combining ability of different parent lines, which helps in selecting superior hybrids. It provides insights into the gene action affecting key traits, guiding breeders in developing varieties with improved yield, disease resistance and other desirable characteristics. Ultimately, this research supports more effective and efficient breeding strategies, contributing to enhanced agricultural productivity and sustainability.	
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.	Improvement needed.	
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.	This manuscript is scientifically robust and technically sound due to its comprehensive approach to assessing combining ability and gene action in the F ₁ generation of pigeonpea. It employs rigorous quantitative methods to evaluate genetic parameters. The use of well-established statistical techniques and a thorough analysis of genetic interactions add credibility to the findings. Furthermore, the research is grounded in current scientific understanding of plant genetics, contributing valuable insights to the field of crop improvement.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Add some more recent references.	
<u>Minor</u> REVISION comments Is the language/English quality of the article suitable for scholarly communications?	Yes	
<u>Optional/General</u> comments		

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PART 2:

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

Reviewer Details:

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