

Review Form 3

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_124782
Title of the Manuscript:	Extend of transgressive segregation for yield related parameters in sesame (<i>Sesamum indicum</i> L.)
Type of the Article	

PART 1: Review Comments

Compulsory 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 manuscript is important for the scientific community as it offers insights into the genetic variability and heritability of yield-related traits in sesame, an essential oilseed crop. The analysis of the F2 generation from superior crosses suggests effective selection and breeding strategies to enhance seed yield and other key traits. The findings can inform future breeding programs by highlighting traits with high genetic advance and heritability. The manuscript is well-structured and presents clear results, particularly noting the promising cross Thilathara X Ayali 2 for breeding efforts. However, it could improve by discussing the broader agricultural implications and challenges of implementing these strategies. Overall, it is a valuable resource for researchers and practitioners in plant breeding and genetics.	
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.	This manuscript is scientifically robust and technically sound, featuring a well-structured experimental design and thorough analysis of the F2 generation of sesame crosses. The use of a Compact Family Block Design for 200 plants ensures controlled conditions and reliable data on yield-related traits. Significant variations among traits, supported by detailed statistical analyses like CV, PCV, and GCV, enhance the understanding of genetic and environmental influences. The identification of traits with high heritability and genetic advance provides a strong basis for selection, particularly highlighting the promising cross Thilathara X Ayali 2 for future breeding efforts. Overall, the manuscript's rigorous methodology and clear results bolster its credibility in the field of plant breeding and genetics.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	yes	

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Minor REVISION comments		
Is the language/English quality of the article suitable for scholarly communications?	yes	
Optional/General comments	Nil	

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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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