

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

<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 manuscript is significant for the scientific community because it provides insights into the genetic variability, heritability and genetic advance in F ₂ segregants of sesame, which are crucial for crop improvement programs. It highlights the potential of transgressive segregation in sesame breeding, particularly for yield-related traits. The findings could assist plant breeders in identifying superior genotypes, advancing sesame breeding programmes, and ultimately enhancing sesame productivity.	
Is the title of the article suitable? (If not please suggest an alternative title)	The current title, "Extent of Transgressive Segregation for Yield-Related Parameters in Sesame (<i>Sesamum indicum</i> L.)," is appropriate as it accurately reflects the content and focus of the study. However, to make it more engaging, you could consider: Suggested Title: "Exploring Transgressive Segregation for Enhanced Yield in F ₂ Segregants of Sesame (<i>Sesamum indicum</i> L.)"	
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.	The abstract is comprehensive but could benefit from additional clarity. I suggest specifying the key findings regarding the most promising cross (Thilathara X Ayali 2) earlier in the abstract to emphasize its importance. Additionally, consider highlighting the practical implications for breeders in the concluding sentences.	
Are subsections and structure of the manuscript appropriate?	The subsections and structure are generally appropriate, following the standard flow of a scientific manuscript. However, it could benefit from clearer transitions between sections and a more detailed explanation of the statistical methods used.	
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 appears scientifically robust and technically sound. The methodology, particularly the use of a Compact Family Block Design and the focus on transgressive segregants, is appropriate for the objectives. The detailed presentation of genetic variability, heritability and genetic advance for yield-related traits indicates thorough research. The statistical analysis strengthens the validity of the results, making the findings reliable for further application in sesame breeding programs.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references are mostly recent and relevant. However, it could benefit from the inclusion of a few more recent studies on transgressive segregation in oilseed crops, which might offer additional context or validation for the findings.	
<u>Minor</u> REVISION comments Is the language/English quality of the article suitable for scholarly communications?	Language: The language is clear, but a few sentences could be restructured for better readability. There are minor grammatical issues and missing punctuation that should be addressed.	
<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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