

Review Form 3

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_129492
Title of the Manuscript:	Combining ability studies for flower yield and its contributing traits in gaillardia (<i>Gaillardia pulchella</i> Foug.) in the northern dry zone of Karnataka
Type of the Article	Original Research Paper

PART 1: 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. A minimum of 3-4 sentences may be required for this part.	The manuscript " Combining ability studies for flower yield and its contributing traits in gaillardia (<i>Gaillardia pulchella</i> Foug.) in the northern dry zone of Karnataka " is a valuable contribution to the scientific community, particularly in the field of plant genetics and hybridization. This manuscript provides critical insights into the genetic mechanisms underlying growth, flowering, and yield traits in Gaillardia through a detailed analysis of variance for combining ability. The findings give major importance to non-additive gene action for the traits, thus corroborating the fact that hybridization is a viable crop improvement method over direct selection. Also, several superior general and specific combiners identified provide a basis for the development of high-yielding hybrids with desirable agronomic traits, thereby advancing floriculture research and supporting the breeding of economically viable ornamental plants. This study provides useful information towards filling the knowledge gap in this key crop, fitting into the broader stream of plant genetics and hybridization.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes, the title is concise and accurately reflects the topic.	
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, the abstract provides a clearer and more detailed summary of the study, highlighting key findings and their implications.	
Is the manuscript scientifically, correct? Please write here.	Yes, the manuscript provided appears to be scientifically structured and includes standard methodologies, results, and discussions typical of plant breeding and genetic studies.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Yes, the references included in the manuscript seem relevant to the topic and cover a range of aspects concerning combining ability studies in Gaillardia, including genetic analyses, hybridization, and related plant breeding concepts. Some references are relatively recent (e.g., from 2023 and 2024), which is advantageous for maintaining the document's relevance.	

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Is the language/English quality of the article suitable for scholarly communications?	Yes, the article's English quality is functional for scholarly communication. It is clear, easy to understand, and effectively conveys the intended message.	
<u>Optional/General</u> comments	The manuscript appears to be a well-structured scientific study focusing on combining ability and hybridization in <i>Gaillardia pulchella</i> Foug.. Below is a general comment on the manuscript: <ol style="list-style-type: none">1. Clear Objective2. Comprehensive Methodology3. Detailed Results and Discussion4. Practical Implications	

PART 2:

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

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