

### Review Form 3

Journal Name:	<a href="#">Journal of Advances in Biology &amp; Biotechnology</a>
Manuscript Number:	Ms_JABB_128899
Title of the Manuscript:	Estimation of Combining Ability and Gene Action in Half Diallel Crosses of Bread Wheat ( <i>Triticum aestivum</i> L.) genotypes.
Type of the Article	Original Research Article

#### **General guidelines for the Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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**Review Form 3**

**PART 1: Comments**

	<b>Reviewer's comment</b>	<b>Author's Feedback</b> <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>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.</b>	<p>This study is pivotal in advancing wheat breeding programs by utilizing a diallel mating design to analyze genetic variability and combining ability among 55 wheat treatments, including hybrids and parental lines. The significant genetic variability identified for critical traits such as grain yield, plant height, and gluten content demonstrates the potential for genetic improvement in wheat.</p> <p>The identification of superior general combiners like LAWL-1 and PBW 502, as well as specific hybrids such as LAWL-1 x DH 3171 and RAJ 4120 x PBW 502, underscores the importance of precise parent selection and hybrid combinations in achieving targeted breeding goals.</p> <p>Overall, the results contribute to optimizing wheat breeding strategies, addressing challenges in food security, and ensuring sustainable agricultural practices.</p>	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	<b>Requires reframing of title:</b> Genetic Insights into Combining Ability and Gene Action in Half Diallel Crosses of <i>Triticum aestivum</i> L.	
<b>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.</b>	Abstract requires some addition of points. The authors can mention about the gene action they observed in the characters under studied.	
<b>Is the manuscript scientifically, correct? Please write here.</b>	The manuscript is scientifically correct.	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	Very less recent data is utilized to cite the manuscript.	
<b>Is the language/English quality of the article suitable for scholarly communications?</b>	Yes. The language is suitable for the scholarly communication.	
<b>Optional/General</b> comments	<b>PLEASE SEE ATTACHMENT</b>	

**PART 2:**

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

**Reviewer Details:**

Name:	<b>Himalay R. Patel</b>
Department, University & Country	<b>Marwadi University, India</b>