

### Review Form 3

Journal Name:	<b>Journal of Advances in Biology &amp; Biotechnology</b>
Manuscript Number:	<b>Ms_JABB_123635</b>
Title of the Manuscript:	<b>Genetic Variability and Genetic Diversity Study in Indian Mustard (<i>Brassica juncea</i> L.) Under Timely and Late Sown Conditions</b>
Type of the Article	<b>Original Research Article</b>

#### **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:

<https://r1-reviewerhub.org/general-editorial-policy/>

#### **Important Policies Regarding Peer Review**

Peer review Comments Approval Policy: <https://r1-reviewerhub.org/peer-review-comments-approval-policy/>

Benefits for Reviewers: <https://r1-reviewerhub.org/benefits-for-reviewers>

**Review Form 3**

**PART 1: Review Comments**

<b>Compulsory</b> REVISION comments	<b>Reviewer's comment</b>	<b>Author's Feedback</b> (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p><b>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.</b></p>	<p>This manuscript provides valuable insights into the genetic variability and diversity of Indian mustard under different environmental conditions. The findings are significant for breeders aiming to improve traits like seed yield and 1000 seed weight through selection, as these traits showed high heritability and genetic advance. The study offers critical information on how timely and late sown conditions affect the genetic performance of mustard genotypes, which could help develop climate-resilient cultivars. Overall, the manuscript contributes to the ongoing efforts in crop improvement, particularly under stress-prone environments.</p>	
<p><b>Is the title of the article suitable? (If not please suggest an alternative title)</b></p>	<p>The title is mostly suitable but could be slightly refined for clarity. A suggested alternative could be: "Assessment of Genetic Variability and Diversity in Indian Mustard (<i>Brassica juncea</i> L.) Under Timely and Late Sown Conditions."</p>	
<p><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></p>	<p>The abstract is comprehensive and outlines the key findings effectively. However, it could benefit from a clearer mention of the broader implications for breeding programmes. Adding a brief concluding statement on how these results can contribute to future breeding initiatives would strengthen the abstract.</p>	
<p><b>Are subsections and structure of the manuscript appropriate?</b></p>	<p>The manuscript's structure is appropriate, with clear delineation between sections like the introduction, materials and methods, results, and discussion. Each section logically builds on the previous one, contributing to the scientific narrative of the study.</p>	
<p><b>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.</b></p>	<p>The manuscript is scientifically robust and technically sound. The use of established methods for genetic variability analysis (such as GCV, PCV, heritability, and genetic advance) ensures the reliability of the results. The study's application of D<sup>2</sup> analysis for genetic diversity is also well-founded and aligns with similar research in the field. The discussion effectively ties the results to their relevance in breeding programs.</p>	
<p><b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b> -</p>	<p>The references are sufficient, but some more recent studies on genetic diversity and breeding strategies in <i>Brassica species</i> could further enrich the discussion.</p>	
<p><b>Minor</b> REVISION comments  <b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<p>The language is generally clear, but a few grammatical errors and awkward phrasing should be addressed. For instance, sentences like "The magnitude of PCV consistently exceeds over GCV" can be revised for clarity. Proofreading for grammar and sentence structure would enhance readability.</p>	
<p><b>Optional/General</b> comments</p>	<p>The manuscript is well-written and contributes valuable information to the field. Addressing the minor revision comments will enhance the clarity and impact of the study. THE AUTHOR MAY TRY TO INCORPORATE THE POOLED ANALYSIS COMBINING BOTH ENVIRONMENTAL CONDITION.</p>	

**Review Form 3**

**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>Asit Prasad Dash</b>
Department, University & Country	<b>S'O'A (DU), India</b>