Review Form 3

Journal Name:	**Journal of Advances in Biology & Biotechnology**
Manuscript Number:	**Ms_JABB_126294**
Title of the Manuscript:	**Influence of seed Size Grading on Physiological Parameters in Pigeon Pea cv. GRG152.**
Type of the Article	**Research Paper**

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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Important Policies Regarding Peer Review

Peer review Comments Approval Policy: https://r1.reviewerhub.org/peer-review-comments-approval-policy/
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PART 1: Review Comments

Compulsory REVISION 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. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	Seed size grading can significantly impact the physiological parameters of pigeon pea (*Cajanus cajan*) cv. GRG152. Research indicates that larger seeds generally exhibit enhanced germination rates, improved seedling vigor, and greater establishment success. This is attributed to the larger seed reserves, which provide sufficient energy for early growth stages. In terms of physiological parameters, larger seeds often result in higher rates of photosynthesis and improved water use efficiency, as they establish deeper root systems more quickly. This can lead to better nutrient uptake and overall plant health. Conversely, smaller seeds may struggle with initial growth, leading to slower development and lower yield potential.	
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.	Some changes have bee made in the abstract which should be incorporated.	
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.	1. Some changes have been suggested which needs to be incorporated. Some grammatical corrections and improved transitions have been given. 2. The results could be further clarified. For example, it might be beneficial to state if the differences in physiology were statistically significant. 3. Some sentences have ben modified. Grammatical and Structural Corrections have been made 4. **Missing reference to statistical analysis**: Mention the software used for statistical analysis (MS-EXCEL) earlier and specify what statistical methods were used. a. Suggested: "The data were analyzed using MS-EXCEL software with critical difference (CD) for comparing treatment means." 5. Break up long sentences for better readability. 6.	

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Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. **-**	**Yes**	
Minor REVISION comments **Is the language/English quality of the article suitable for scholarly communications?**	Yes	
Optional/General comments	The manuscript does not present significant ethical issues, as it primarily addresses standard agricultural practices related to seed size grading and its effects on the physiological parameters of pigeon pea (*Cajanus cajan*) cv. GRG152. The study adheres to accepted scientific protocols, focusing on the influence of seed size on germination, seedling vigor, and overall plant health. While it is crucial to promote responsible agricultural practices, particularly concerning the environmental impacts of seed grading, no major ethical concerns are evident in this research.	

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?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

Name:	**Ankita Sharma**
Department, University & Country	**Jawaharlal Nehru Krishi Vishwa Vidyalaya (JNKVV), India**