

Review Form 3

Journal Name:	Journal of Experimental Agriculture International
Manuscript Number:	Ms_JEAI_122343
Title of the Manuscript:	Assessment of Physical Properties of Black Gram and Green Gram Seeds in Relation to the Design of Seed Metering Mechanisms
Type of the Article	Original Research Article

Review Form 3

PART 1: Review Comments

Compulsory 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.	The physical properties of black gram and green gram seeds are critical for the design of seed metering mechanisms. The findings contribute to the improvement of agricultural equipment, potentially leading to enhanced crop productivity and efficiency. The study is particularly important for the development of seed drills that can handle these specific seed types with precision, addressing the needs of farmers in pulse production.	
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.	Typically, an abstract focus on summarizing the study's objectives, methods, key findings, and implications. The study's location is critical to understanding the context or applicability of the findings. In most cases, though, this information is better suited for the methodology section.	
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.	This manuscript is scientifically robust and technically sound due to its comprehensive evaluation of the physical properties of black gram and green gram seeds, which are essential for designing effective seed metering mechanisms. The use of established methodologies for measuring key parameters ensures reliable results. Furthermore, the findings are contextualized with existing literature, validating their significance. Overall, the detailed analysis of seed characteristics contributes meaningfully to the field, underscoring the manuscript's scientific integrity.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Only limited references are quoted. Cite studies that support or contrast with your results. This could include similar research on seed metering mechanisms, physical characteristics of seeds, or previous findings on black gram and green gram.	

Review Form 3

<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>		
<p>Optional/General comments</p>	<p>The manuscript should be accepted, but the manuscript needs to be supplemented.</p> <ul style="list-style-type: none"> • Include More Recent Studies that explore the relationship between seed characteristics and metering system design to provide a broader context. • Grammar and Tense Consistency: There is an inconsistency in tense usage in the sentence, which affects the clarity and accuracy of the writing. Since the study has already been completed, all details should be written in the past tense. • The parenthesis in "(Plate 1(a)", "Plate 1(b))" is not properly closed. • The variables "b" and "w" should be consistently labeled. In the sentence, "breadth (w)" is used, but in the geometric mean equation, "b" is used instead of "w" • The word "Hexane" should be written as "hexane" (write in sentence case) • Issue: "The diameter of the base and the height of the heap were measured" lacks specificity. Suggestion: "The base diameter and height of the seed heap were measured" • If any particular varieties of green gram and black gram seeds were studied in this section. Mentioning the specific varieties will enhance the clarity of the research and provide context for the findings. • Ensure consistency in decimal places (Table 1) • Write the value of CV upto two decimal places • Verify and ensure consistency between the description (22.40° to 24.90) and the table data (22.40-24.72) (Table 2) • Ensure Consistency in Reporting Angles (degree or degree symbol (°)) • Changed "mild sheet material" to "mild steel material" (Conclusion) • Need to paraphrase the sentences because many details are similar to below paper "Madhusudan, B. S., Kushwaha, H. L., Kumar, A., Parray, R. A., Dass, A., Chakraborty, D., & PB, S. S. (2023). Evaluating physical properties of green gram seeds for seed metering mechanism design." 	

PART 2:

	<p>Reviewer's comment</p>	<p>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)</p>
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	<p>The authors would like to thank the reviewer for their contribution to peer reviewing the manuscript.</p>

Reviewer Details:

<p>Name:</p>	<p>Ravina Parmar</p>
<p>Department, University & Country</p>	<p>Anand Agricultural University, India</p>