

### Review Form 3

Journal Name:	<a href="#">Asian Journal of Advances in Agricultural Research</a>
Manuscript Number:	Ms_AJAAR_126941
Title of the Manuscript:	Development and Evaluation of a Helical Ribbon-type Mixer for Mushroom Substrate
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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#### PART 1: Review Comments

<b>Compulsory</b> 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>
<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>	<b>Major revision required</b>  The study offers a valuable contribution through the development and evaluation of a helical ribbon-type mixer. However, significant revisions are necessary to strengthen its scientific rigor and real-world applicability, especially by addressing the points above. Incorporating these enhancements will make the paper more robust and relevant to industry stakeholders and researchers in mushroom production.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	<b>Yes</b>	
<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>	<b>Yes</b>	
<b>Are subsections and structure of the manuscript appropriate?</b>	<b>Major revision required</b>	
<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>	<b>Major revision required</b>	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	<b>Add more recent references.</b>	

**Review Form 3**

<p>Minor REVISION comments</p> <p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>		
<p><b>Optional/General</b> comments</p>	<ol style="list-style-type: none"> <li>1. Broaden the literature review to discuss limitations of existing substrate mixing methods, such as uneven moisture distribution or labor intensity, and clarify how this new helical ribbon mixer addresses these issues effectively.</li> <li>2. Include an in-depth analysis of the materials used, particularly their durability and suitability in high-moisture environments, which is critical for predicting the mixer's longevity and consistent performance over time.</li> <li>3. Add a specific analysis of post-mixing moisture distribution to evaluate moisture retention, as this is crucial for optimal mushroom growth and yield.</li> <li>4. Test the mixer's effectiveness across different substrates with various textures and moisture levels to demonstrate versatility for other mushroom types or even broader agricultural applications.</li> <li>5. Incorporate a cost-benefit analysis comparing manual versus mechanical mixing, highlighting potential efficiency gains and labor cost savings.</li> <li>6. Incorporating visuals such as diagrams, flowcharts, and tables would improve comprehension and make the paper more engaging for a broader audience.</li> <li>7. Enhance the paper by citing recent studies related to substrate mixing, moisture distribution in agricultural substrates, material durability in high-moisture environments, and innovative methods in mushroom cultivation to strengthen the study's foundation and industry relevance.</li> </ol>	

**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)
<p><b>Are there ethical issues in this manuscript?</b></p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

**Reviewer Details:**

<p>Name:</p>	<p><b>Krishna Bahadur Chhetri</b></p>
<p>Department, University &amp; Country</p>	<p><b>Dr. Rajendra Prasad Central Agricultural University, India</b></p>