

**Review Form 1.7**

Journal Name:	<b>International Journal of Environment and Climate Change</b>
Manuscript Number:	<b>Ms_IJECC_108537</b>
Title of the Manuscript:	<b>Productivity and profitability of sesame / green gram /urdbean – mustard based cropping systems under moisture conservation practices.</b>
Type of the Article	

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**PART 1: Review Comments**

	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>Compulsory</b> REVISION comments</p> <p>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p>3. <b>Is the abstract of the article comprehensive?</b></p> <p>4. <b>Are subsections and structure of the manuscript appropriate?</b></p> <p>5. <b>Do you think the manuscript is scientifically correct?</b></p> <p>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></p> <p><b>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</b></p>	<p><b>Yes</b>, the manuscript "Productivity and profitability of sesame / green gram /urdbean – mustard based cropping systems under moisture conservation practices" provides valuable insights on the impact of moisture conservation practices on the productivity and profitability of mustard-based cropping systems.</p> <p><b>No</b>, the suggested title is "Enhancing Productivity and Profitability of Mustard-Based Cropping Systems through Moisture Conservation Practices"</p> <p>Need to improve</p> <p>Need to improve</p> <p><b>Yes</b>, several areas require further refinement and elaboration to enhance the overall quality, clarity, and comprehensibility of the work</p> <p><b>No</b></p>	
<p><b>Minor</b> REVISION comments</p> <p>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></p>	<p>The manuscript needs to improve its English. I recommend authors to please check the MS through Grammarly.</p>	
<p><b>Optional/General</b> comments</p>	<ol style="list-style-type: none"> <li>1. <b>Line Numbers:</b> I recommend to including line numbers in the manuscript would facilitate specific comments and revisions on a line-by-line basis.</li> <li>2. <b>Introduction:</b> To enhance the manuscript's background and context, it is essential to incorporate relevant references where cited or necessary. Several paragraphs lack proper referencing, and addressing this will strengthen the manuscript's academic foundation.</li> <li>3. <b>Methodology:</b> The methodology section should be refined and clarified. Additional information is needed, such as plot size for crop harvesting and the total area allocated for crop cultivation. Utilize SI units for reporting (e.g., q ha-1) instead of Kg/ha. Explicitly specify the formulas used for calculating the cost of cultivation, gross return, net return, and benefit: cost ratio. The calculation process for these parameters should be elucidated. What is the soil moisture available under different conservation practices? How did they measure the agronomic traits and phenology of crop? The measurement of phonological stage at different stage of crop is important as differential growth attributes.</li> <li>4. <b>Data Analysis:</b> Please also include the details on the statistical analysis employed and the software used for the analysis.</li> <li>5. <b>Results and Discussion:</b> <ul style="list-style-type: none"> <li>o Present the improved yield in percentage for better clarity.</li> <li>o Report whether the yield trends increased or decreased order.</li> <li>o Address the absence of Table 3 in the manuscript.</li> <li>o Provide a discussion based on the findings, focusing on cause-effect relationships and considering the results.</li> <li>o Elaborate the discussion part.</li> </ul> </li> <li>6. <b>Tables:</b> <ul style="list-style-type: none"> <li>o For Table 1, in addition to the CD (p=0.05), also include the post hoc test results for improved visualization. Furthermore, indicate SEM values along with treatment values.</li> <li>o Modify Table 2 in line with the suggested changes for Table 1.</li> </ul> </li> </ol>	

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	7. <b>References:</b> Ensure that all references are included. Add the missing references, including "Goitom Teame et al. (2017)" and "Roger et al. (2007)" in the reference list. Additionally, incorporate recent references related to mustard-based cropping systems based on earlier research in the field.	
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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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)
<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>Manish Kumar</b>
Department, University & Country	<b>ICAR- Central Soil Salinity Research Institute, India</b>