

**Review Form 3**

Journal Name:	<a href="#">Asian Journal of Agricultural and Horticultural Research</a>
Manuscript Number:	Ms_AJHR_125022
Title of the Manuscript:	Effect of drip irrigation regimes and mulching on cucumber production under cooled plastic tunnel conditions
Type of the Article	Original Research Article

**Review Form 3**

**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>
<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 holds significant importance for the scientific community as it addresses the optimization of water and resource use, which is critical in arid and semi-arid regions like Kassala, Sudan. By evaluating different drip irrigation regimes and mulching practices, the study provides valuable insights into improving cucumber production in water-scarce environments while maximizing economic water productivity. I appreciate the manuscript's practical approach, as it offers clear recommendations for sustainable agriculture, including both yield optimization and cost-efficiency, which are highly relevant for farmers and policymakers alike. However, expanding on the long-term environmental impacts and the scalability of these practices could further enhance its contribution to sustainable farming research.</p>	
<p><b>Is the title of the article suitable? (If not please suggest an alternative title)</b></p>	<p>Optimizing Drip Irrigation and Mulching for Enhanced Yield and Water Productivity of Cucumber (<i>Cucumis sativus</i>) Under Cooled Plastic Tunnel 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 of the article is fairly comprehensive, but there are a few areas that could be improved for clarity and completeness:            Suggestions for Improvement:            1. Clarification of the Objective: While the goal of studying the effects of irrigation regimes and mulching on cucumber production is clear, it could be more explicitly stated at the beginning of the abstract to immediately set the context for the reader.            2. Details on Key Results: The abstract provides some important results, but the mention of "yield and yield components" is too broad. More specific data on the key yield components (e.g., fruit size, number of fruits per plant) could make the findings clearer.</p>	
<p><b>Are subsections and structure of the manuscript appropriate?</b></p>	<p><b>Yes ok</b></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 demonstrates scientific robustness and technical soundness through its rigorous experimental design, specifically utilizing a split-plot design with appropriate replication, which enhances the reliability of the findings. By systematically evaluating the effects of different drip irrigation regimes and mulching on cucumber yield and productivity, the study addresses a significant agricultural challenge in semi-arid environments, making it highly relevant to current agricultural research. The use of a well-known cucumber hybrid and detailed measurement of both yield and water productivity metrics further support the validity of the results. Additionally, the analysis of economic factors, such as marginal rate of return, adds depth to the research by considering the practical implications for farmers. Overall, the thorough methodology and relevant outcomes underscore the manuscript's scientific credibility and its contribution to sustainable agricultural practices.</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><b>yes</b></p>	

### Review Form 3

Minor REVISION comments	Yes with some corrections	
<b>Is the language/English quality of the article suitable for scholarly communications?</b>		
<u>Optional/General</u> comments		

### **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:

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