

Review Form 1.7

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_105482
Title of the Manuscript:	Effect of drip irrigation levels and weed management practices on quality parameters and yield of turmeric (Curcuma longa L.) under mango orchard
Type of the Article	

General guideline for 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 guideline for Peer Review process, reviewers are requested to visit this link:

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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>Compulsory REVISION comments</p> <ol style="list-style-type: none"> 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ol style="list-style-type: none"> 1. The manuscript titled "Effect of drip irrigation levels and weed management practices on quality parameters and yield of turmeric (<i>Curcuma longa</i> L.) under mango orchard" presents the results of a field experiment aimed at studying the impact of different drip irrigation levels and weed management practices on the quality and yield of turmeric in a mango orchard. The study is conducted over two consecutive years and evaluates various parameters such as total carbohydrate content, volatile oil yield, curcumin content, fresh rhizomes yield, and cured rhizomes yield. The research findings highlight the significant influence of drip irrigation levels and weed management practices on the quality and yield of turmeric. The results suggest that drip irrigation at 1.0 Epan combined with hand weeding thrice at specific intervals produces the highest values for quality parameters and yield, while flood irrigation at 1.0 Epan and unweeded control result in the lowest values. The study contributes to understanding the effects of irrigation and weed management strategies on turmeric cultivation in a mango orchard, providing valuable insights for farmers and researchers seeking to enhance turmeric production. Overall, the manuscript addresses an important agricultural issue and provides relevant information for the scientific community engaged in crop management and horticulture research. The results can potentially contribute to improved practices in turmeric cultivation, thereby benefiting both farmers and consumers 2. The title "Effect of drip irrigation levels and weed management practices on quality parameters and yield of turmeric (<i>Curcuma longa</i> L.) under mango orchard" effectively captures the main focus and content of the manuscript. It highlights the key factors being investigated (drip irrigation and weed management) and their impact on quality and yield of turmeric in a specific context (mango orchard). However, if you're looking for an alternative title, you could consider: "Impact of Drip Irrigation and Weed Management on Turmeric (<i>Curcuma longa</i> L.) Quality and Yield in a Mango Orchard" 3. Yes, the abstract of the article is comprehensive. It provides a clear overview of the research conducted, including the main objectives, experimental setup, key findings, and conclusions. The abstract effectively summarizes the impact of different drip irrigation levels and weed management practices on various quality parameters and yield of turmeric under mango orchard conditions. It highlights the significance of the study and the specific results obtained. Overall, the abstract serves its purpose of providing a concise summary of the research to readers who are interested in the topic. 4. The manuscript appears to have appropriate subsections and structure. It begins with an abstract, followed by an introduction that provides background information on turmeric cultivation, its importance, and the challenges posed by weed and water management. The "Materials and Methods" section outlines the experimental setup, including the location, soil characteristics, climate, irrigation levels, weed management practices, and details of the cultivation process. The results are presented in a structured manner with subsections covering different quality parameters and yield metrics. The "Discussion" section appears to be missing in the provided text, but it's a crucial part of the manuscript where you would typically interpret the results in the context of existing literature, discuss the implications of the findings, and provide insights into the mechanisms that might explain the observed outcomes. Finally, the manuscript concludes with a "Conclusion" section summarizing the key findings and their implications. This 	

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	<p>structure is in line with the common format for scientific research papers and helps readers navigate the content easily, making it clear what was investigated, how it was done, what was found, and what it means for the field of study.</p> <p>5. As previously mentioned, the "Discussion" section is missing in the provided text. This section is crucial for discussing the significance of the results, comparing them with existing literature, and providing insights into the implications of the findings. Ensure that the full manuscript includes a comprehensive discussion section. Once you include the discussion section, the manuscript will likely be a complete and well-structured scientific document. It's important to have your work reviewed by peers or experts in the field before submission to ensure its quality and accuracy. The conclusion section is more in-depth discussion of the study's findings and their implications. In this section, researchers interpret the results in the context of existing literature, discuss the significance of the findings, and highlight the contributions and limitations of the study. The conclusion should not only summarize what was found but also provide insights into why it matters and how it fits into the broader field of research. It's an opportunity to discuss the implications of the study and suggest potential future directions or applications based on the results.</p> <p>6. It's worth noting that the quality of references goes beyond their recency. It's important to ensure that the sources you cite are from reputable journals, books, or organizations in the field. Additionally, consider including a mix of review articles, primary research studies, and authoritative sources to provide a comprehensive background for your research. Selecting references for your manuscript quality and relevance has not been prioritized.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>The language and English quality of the provided manuscript appears to be suitable for scholarly communications. The text is well-structured, and the language is generally clear and coherent, which is essential for effectively communicating research findings. However, I did notice a few instances where sentence structures might be a bit complex or could benefit from slight rephrasing to enhance clarity. For example:</p> <p>Original: "The combination of drip irrigation at 1.0 Epan with hand weeding thrice at 25, 50 and 75 DAP recorded significantly the highest fresh rhizomes yield..."</p> <p>Suggested: "The combination of drip irrigation at 1.0 Epan with hand weeding three times at 25, 50, and 75 DAP resulted in a significantly higher yield of fresh rhizomes..."</p> <p>Additionally, the use of technical terms and specialized language is appropriate for a scientific manuscript, but make sure that the text is comprehensible to your intended audience. If you're targeting a broader readership, consider providing brief explanations for specialized terms or acronyms on their first use.</p>	
<p>Optional/General comments</p>		

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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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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