

Review Form 1.7

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_102994
Title of the Manuscript:	EFFECT OF CALCIUM CHLORIDE (CaCl₂) AND CARBON DIOXIDE (CO₂) ON POST HARVEST QUALITY OF APPLE FRUIT (<i>Malus domestica</i>) cv. Gala
Type of the Article	Original Research 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:

(<https://www.journalijpss.com/index.php/IJPSS/editorial-policy>)

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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"> Is the manuscript important for scientific community? (Please write few sentences on this manuscript) Is the title of the article suitable? (If not please suggest an alternative title) Is the abstract of the article comprehensive? Are subsections and structure of the manuscript appropriate? Do you think the manuscript is scientifically correct? 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"> The significance of post-harvest losses in fruits and vegetables cannot be understated, as these losses have far-reaching implications for food security and sustainability. High post-harvest losses contribute to reduced availability of fresh produce, increased food prices, and economic losses for farmers and stakeholders in the agricultural supply chain. Optimizing Post-Harvest Quality of Gala Apple Fruit (<i>Malus domestica</i>) using Calcium Chloride (CaCl₂) and Carbon Dioxide (CO₂): A Comprehensive Study The study focused on evaluating various quality parameters to understand the potential benefits of applying CaCl₂ and CO₂ in preserving the quality and extending the shelf life of Gala apple fruit. (Improved version of the abstract does not comprise discussing the significance of the findings) Authors have expressed Methodology in the Abstract where it should be there in Material and Method. Recommended to discuss the findings separate subsection. Conclusion is insufficient. Producing a scientifically rigorous manuscript necessitates a profound comprehension of the research subject and adherence to the precise guidelines set forth by the intended journal. This collaborative approach will ensure that the language, structure, and scientific content of the manuscript meet the required standards and contribute to its overall quality. Without proper referencing, the validity and reliability of the added data are compromised. To strengthen the scientific integrity of the manuscript, it is crucial to conduct a thorough literature review and include appropriate references to support the study's rationale, methodology, and findings. This will ensure that the research is grounded in existing knowledge and aligns with established scientific principles. Additionally, the language used in the manuscript should be refined to enhance clarity and precision. 	
<p>Minor REVISION comments</p> <ol style="list-style-type: none"> Is language/English quality of the article suitable for scholarly communications? 	<p>The language proficiency and writing style of the article demonstrate a satisfactory level for scholarly communications. The author presents their ideas clearly and concisely, utilizing appropriate scientific terminology and language.</p>	
<p>Optional/General comments</p>	<p>To ensure the suitability of the article for publication in scholarly journals, some improvements are necessary.</p> <p>Firstly, the introduction should be revised to provide a comprehensive overview of the study. It should clearly state the objective of the research, which is to optimize the concentration of CaCl₂ and CO₂ to mitigate post-harvest losses in apples. Additionally, the introduction should highlight the significance of addressing post-harvest losses for food security and sustainability, supported by relevant citations.</p> <p>Furthermore, the methodology section should be moved from the abstract to its appropriate place in the materials and methods section. This will allow readers to gain a better understanding of the experimental procedures, sample sizes, data collection methods, and statistical analysis employed in the study.</p> <p>To enhance the clarity and organization of the article, it is recommended to discuss the findings in a separate subsection. The subsection should summarize the results obtained from the experiments, supported by statistical analysis and relevant data, while avoiding redundancy with the methodology section.</p> <p>Lastly, the conclusion should be strengthened to provide a concise summary of the key findings and their implications. It should also highlight the practical and sustainable solutions identified through the research, emphasizing their potential impact on reducing post-harvest losses and improving food security and sustainability.</p> <p>By addressing these suggested improvements, the article will be better positioned for publication in scholarly journals, ensuring its suitability for rigorous academic discourse and dissemination of knowledge</p>	

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PART 2:

	Reviewer's comment	Author's comment <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>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Amir Afzal
Department, University & Country	Barani Agricultural Research Institution, Pakistan