

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_104556
Title of the Manuscript:	EFFECT OF TA41 ON GROWTH, YEILD AND QUALITY OF BITTER GOURD (<i>Momordica charantia</i>) cv. Phule Green Gold
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.journalijecc.com/index.php/IJECC/editorial-policy>)

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> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<p>The writing of the work, including the introduction, methodology, abstract, results and reflections and elaboration, demonstrates a rigorous and clear scientific approach to the research. The detailed methodology and the use of an adequate experimental design, such as a randomized block design, guarantee the validity and reliability of the results obtained. The abstract concisely presents the main results and established the study, highlighting the importance of the findings. Research on the effect of TA41 on growth, yield and quality of bitter gourd cv. Phule green gold is of utmost importance for agriculture and food production. Bitter gourd is a plant widely cultivated in various regions of the world and is known for its nutritional and medicinal benefits. However, improving plant growth and quality can result in greater productivity and biological benefits for farmers. This topic is relevant as it contributes to mitigating the effects of climate change by improving the productivity and resistance of agricultural crops. The T6 treatment, which involved 40ml/L foliar spray and soil irrigation with TA41 @ 20ml/L, was identified as the most effective in terms of plant growth and yield. This treatment resulted in a maximum plant height, greater number of primary branches, greater number of leaves per plant, as well as a greater number of fruits per plant and greater fruit yield per hectare. Furthermore, the T6 treatment also showed a significant increase in the total soluble solids (TSS) and ascorbic acid content in the fruits, indicating an improvement in the nutritional quality of the fruits. All data provided in the tables are calculated correctly. The results and conclusions of this study have the potential to benefit farmers, increase food production and promote agricultural sustainability. I emphasize that the references used in the research are relevant and current for the study in question.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>-----</p>	
<p>Optional/General comments</p>	<p>-----</p>	

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

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