

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_109160
Title of the Manuscript:	Impact of nutrients and biofertilizers on stress tolerance in tomato under elevated CO₂ induced high temperature condition
Type of the Article	Original Research Article

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>1. Yes. The study focuses on effect of increasing CO₂ induced high temperature stress and the role of nutrients and biofertilizers in improving the stress tolerance of tomato plants which is quite relevant in the changing climatic conditions.</p> <p>2. Alternative Title: Role of nutrients and biofertilizers for improved tolerance of tomato under elevated CO₂ induced high temperature stress.</p> <p>3. Abstract needs improvement. The purpose of conducting the study, research methodology followed, specific findings and relevance should be written clearly.</p> <p>4. Introduction should be elaborated. Information should be provided on the how high temperature stress affects tomato and other plants based on earlier published literature. The need for conducting the present study and its importance along with relevant references should be added. Materials and Methods- OTC construction, microclimatic within and outside OTC, preparation of POP, KAU+PGPR1 to be provided. Briefly provide the planting and aftercare practices of tomato plants and how the data was collected on growth parameters at 75 days after sowing. Give the reference for proline estimation. Results and Discussion- Information should be provided on growth parameters (Shoot length, Root length, Number of leaves, Plant height, Fresh/Dry weight) of tomato at 75 DAS in treated as well as control plants in open and OTC conditions. The results should be discussed properly with appropriate references form previous studies conducted in other plants under OTC conditions. Discussion should include the role of proline. Results and discussion should be improved. Though in conclusion section it is mentioned that the application of extra nutrients improved the chlorophyll stability index and antioxidants but no data is provided regarding the same in the Materials and Methods or Results section.</p> <p>5. Yes. Manuscript needs improvement.</p> <p>6. Recent and relevant references should be added to justify the findings of the present study.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Spellings, grammatical errors, should be rectified.</p>	
<p>Optional/General comments</p>	<p>The research topic is good and important for scientific community but improvement is required in the abstract, introduction, materials and methods, results and discussion.</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:	Rupali Seth
Department, University & Country	Fergusson College, India