

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_105604
Title of the Manuscript:	Studies on Heterosis for fruit yield, quality and ToLCV resistant in Tomato (Solanum lycopersicum L.)
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>)

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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> <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><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ul style="list-style-type: none"> • The chief objective of tomato breeding, a vital vegetable crop includes developing high yielding varieties with earliness, desirable/striking fruit shape, size, colour and free from various diseases (Tomato leaf curl virus). • The disease is caused by white fly-transmitted Gemini viruses of economic importance and has become a current problem on tomato farms in India causing unadorned yield losses. • Yes, the title of the manuscript is suitable and appropriate enough. • Yes, the abstract written is comprehensive. • Yes, they are appropriate enough inscribing various significant aspects. • The presentation of the Abstract, Introduction, Materials and Methods, Results and Discussion, and Conclusion are exceptionally appreciable. • In addition, the observations have been curtly documented in the Tabular forms in a persuasive method. • Commercialization of hybrid vigor in tomato has gained importance due to various recompenes of hybrids over pure line varieties, including higher marketable fruit output, component characteristics, and resilience to biotic and abiotic stressors. • Furthermore, the best way to combat this disease is to use plants that are resistant to the disease. • In accordance with the procedures delineated by Panse and Sukhatme (1967), an analysis of variance was performed. • Heterosis over better parent (BP) was calculated by treating each feature using the tactic proposed by Hayes et al. (1955). • The breeding value of the plant material was determined by examining heterosis data for the complete trait of the F₁ under consideration. The studied data were statically analyzed using the Indostat software Hyderabad program. • The references cited are adequate and recent enough. 	
<p>Minor REVISION comments</p>	<ul style="list-style-type: none"> • Introduction,1st line: <i>Solanum lycopersium</i> -Italicize the scientific name, as per binomial 	

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<p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>nomenclature.</p> <ul style="list-style-type: none">• Introduction, 2nd line; is to develop- remove the verb “be” and change the verb form.• Materials and methods, last 2nd line: statistically- correct the spelling.• The usage of the English language is appropriate and well suitable for scholarly communications.	
<p><u>Optional/General</u> comments</p>	<ul style="list-style-type: none">• The breeding value of the plant material was resolved by examining heterosis data for the complete trait of the F₁ under consideration. The studied data were statistically analyzed using the Indostat software Hyderabad program.• Overall, the manuscript has been succinctly authored and well-presented documenting the observations in the illustrative Tabular forms.	

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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>	

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