

Review Form 1.7

Journal Name:	Archives of Current Research International
Manuscript Number:	Ms_ACRI_118397
Title of the Manuscript:	Heterosis and Combining Ability Analysis in Tomato using Line x Tester Model
Type of the Article	Original research

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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>	<p>The manuscript is important for scientific community.</p> <p>A line x Tester mating experiment for yield and yield attributing traits in Tomato (<i>Lycopersicon esculentum</i>) was carried out during Rabi 2021-22 and 2022-23 at the Experimental, Organic Research farm Kargunwa ji, Jhansi, Department of Horticultural Sciences, Institute of Agricultural Sciences, Bundelkhand University Jhansi (Uttar Pradesh). Crosses were evaluated in a Randomized block design with three replications with plot size - 3x3m and number of rows per plant – 5 rows per plant accommodating spacing (60x60) cm. Population size were 30 plants per treatment with standard spacing. All 17 parents (5 lines and 12 testers) were raised in separate plots along with a check grown in RBD in three replications to study the combining ability, to estimate the magnitude or percentage of heterosis in the crosses, for identification of the best F1 hybrid and correlation among different traits. Since, Line x tester analysis provides information of potential parents the hybrid line. Three best combinations for line parents were identified.</p> <p>The title of the article is suitable</p> <p>The abstract of the article is confusing.</p> <p>Subsections and structure of the manuscript are almost appropriate.</p> <p>The manuscript is scientifically correct, but the presentation needs to be worked out</p> <p>The references are sufficient and recent.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>English quality needs to be improved.</p>	
<p>Optional/General comments</p>	<p>Abstract</p> <p>The experiment entitled "Heterosis and combining ability studies for yield and yield attributing trait in Tomato (<i>Lycopersicon esculentum</i>)in Bundelkhand Region" was carried out during Rabi 2021-22 and 2022-23 was carried at the Experimental, Organic Research farm Kargunwa ji,....</p> <p>... was design under Randomized block design with three replications...</p> <p>All 17 parents (5 lines and 12 testers) were raised in separate plots along with a check grown in RBD in three replications to study the combining ability,</p> <p>This is not completely mentioned in M&M. Which was the check?</p> <p>1.INTRODUCTION The Portuguese Portugese introduce it to the... ...the total tomato production in India is produced in the... ...the total tomato production in India occurs in the ...</p> <p>2.MATERIALS AND METHODS</p>	

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	<p>The software and the formulas used <u>are not presented</u>.</p> <p>2.1Hybridization program Each of the 5 lines were crossed with 12 testers to produce 60 hybrids...</p> <p>But in table 1 are `presented 12 lines and 5 testers</p> <p>CONCLUSION</p> <p><u>Path coefficient analysis</u> also revealed that highest number of fruit/cluster exerted the highest direct effect on lycopene content. For <u>Phenotypic path with yield and yield components Path</u> coefficient analysis also revealed the highest pattern for many characters viz., number of fruit duration which exerted the highest direct effect on lycopene content.</p> <p>I do not find these experiments either in materials and methods or in results</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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