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| Journal Name: | [**Journal of Advances in Biology & Biotechnology**](https://journaljabb.com/index.php/JABB) |
| Manuscript Number: | **Ms\_JABB\_141084** |
| Title of the Manuscript: | **Assessing Heterosis and Combining Ability in Bell Pepper (Capsicum annuum L.) Using Male Sterile Lines** |
| Type of the Article | **Orginal research article** |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **This study provides critical insights into hybrid development in *Capsicum annuum* through line × tester analysis, identifying MS-4 × UHF-CAP-27 and MS-7 × UHF-CAP-27 as superior crosses based on heterosis, GCA, and SCA effects. It highlights promising parental lines and hybrids with enhanced yield-contributing traits, essential for targeted breeding in mid and low Himalayan agro-climates.** | Development of hybrids in bell pepper through heterosis breeding among genetically diverse genotypes can further be utilized for the development of desirable recombinant  offers much scope for improvement. Knowledge about gene action and combining ability aids in the selection of suitable parents for hybridization programme in order to develop Promising hybrids for future use. Further, it helps in formulating the breeding methodologies for crop improvement. |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Title is excellent** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **Abstract writing is good** | Yes |
| Is the manuscript scientifically, correct? Please write here. | Yes , good | Yes |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | Add some recent reference in introduction and discussion part | Yes, it has been added successfully |
| Is the language/English quality of the article suitable for scholarly communications? | Writing good | Good |
| Optional/General comments | **This article written in a very good manner and this research work is helpful for development of high yielding variety, and these outcome benefitted to researcher and farmers. As a reviewer i am appreciate this work for published in your esteemed journal thank you.** |  |

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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?** | *(If yes, Kindly please write down the ethical issues here in details)* | No |