|  |  |
| --- | --- |
| Journal Name: | [**International Journal of Plant & Soil Science**](https://journalijpss.com/index.php/IJPSS) |
| Manuscript Number: | **Ms\_IJPSS\_139715** |
| Title of the Manuscript: | **Effect of Plant growth regulators on growth, yield and quality of Chilli (Capsicum annuum L.)** |
| Type of the Article | **Research Article** |

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 manuscript provides valuable insights into optimizing chilli cultivation through the application of plant growth regulators. The study's focus on hybrid chilli varieties under specific agro-climatic conditions contributes to localized crop management strategies, potentially leading to increased productivity and profitability for growers. This research helps  bridge knowledge gaps in the effective use of PGRs for sustainable chilli production. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | Yes, the title is suitable and accurately reflects the content of the manuscript. |  |
| **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.** | The abstract is comprehensive and well-structured, summarizing the key objectives, methodology, significant findings, and conclusions. No additions or deletions are suggested. |  |
| **Is the manuscript scientifically, correct? Please write here.** | Yes, the manuscript appears to be scientifically correct. The experimental design (RBD with eight treatments and three replications) is appropriate for agricultural field trials. The data analysis using ANOVA and CD is standard for such studies. The results are presented clearly and discussed in relation to existing literature, providing scientific justification for the  observed effects of plant growth regulators. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The references are generally sufficient and adequately support the claims made in the introduction and discussion sections, however. It is better to update the reference using the following as iincluding a clear literature review helps reviewers quickly see what's new and why it matters, which can speed up the review and improve  acceptance chances. The following references were selected because they relate closely to the topics and ideas in your submission. They may provide helpful context, illustrate similar methods, or point to recent developments that can strengthen how your work is positioned within the existing literature.   1. Vanshika, et al. “Application of Plant Growth Regulators Improves Fruit Quality in Chilli (Capsicum Annuum L.).” Journal of Advances in Biology & Biotechnology,   2025, [https://doi.org/10.9734/jabb/2025/v28i7253](https://doi.org/10.9734/jabb/2025/v28i72537)7 .   1. ANBARASI, D. “Effect of Plant Growth Regulators on Growth, Yield and Quality Characters of Chilli (Capsicum Annuum L.).” Annals of Plant and Soil Research, Gramya Krishi Vikas Samiti, 2022, doi:10.47815/apsr.2021.10206. 2. Saini, Savita, and Deepanshu. “Investigating the Effect of Plant Growth Regulators on Growth, Yield and Quality of Chilli (Capsicum Annuum L.).” International Journal of Environment and Climate Change, Sciencedomain International, 2023, doi:10.9734/ijecc/2023/v13i92543. 3. Parveen, Abida, et al. “Effect of Plant Growth Regulators on Yield and Quality of Chilli (Capsicum Annuum L.) Cv. Bidhan Chilli-4.” Journal of Scientific Research and Reports,   2024, [https://doi.org/10.9734/jsrr/2024/v30i8226](https://doi.org/10.9734/jsrr/2024/v30i82265)5 .   1. Baghel, Vikash Singh, et al. “Determining the Effect of Plant Growth Regulators on Growth, Yield and Quality of Chilli (Capsicum Annuum L.).” Asian Journal of Soil Science and Plant Nutrition,   2024, [https://doi.org/10.9734/ajsspn/2024/v10i228](https://doi.org/10.9734/ajsspn/2024/v10i2289)9 .   1. Nalluri, Sai Roshini, et al. “Effect of Plant Growth Regulators on Growth and Yield Attributes of Chilli (Capsicum Annum L.).” International Journal of Plant and Soil Science, Sciencedomain International, 2022, doi:10.9734/ijpss/2022/v34i2231508. 2. Verma, R. K., et al. “Assessment of the Efficacy of Plant Growth Regulators on Growth and Yield of Chilli (Capsicum Annuum L.) in Koshi Region of Bihar-an on Farm Trial.” Journal of Pharmacognosy and Phytochemistry, AkiNik Publications,   2020, [https://www.phytojournal.com/archives/2020/vol9issue3/PartN/9-3-155-244.p](https://www.phytojournal.com/archives/2020/vol9issue3/PartN/9-3-155-244.pdf)df.   1. Chellamuthu, Tamilselvi. “Impact of Plant Growth Regulators and Formulations on Growth of Chilli (*Capsicum Annuum* L.).” Plant Gene and Trait, Sophia Publishing Group, Inc., 2014,   doi:10.5376/pgt.2014.05.08. |  |

|  |  |  |
| --- | --- | --- |
|  | 1. Raj, A. Chandini, et al. “Effect of Plant Growth Regulators on Growth and Yield of Chilli (*Capsicum Annuum*L.).” Research on Crops, Gaurav Publications, 2016, doi:10.5958/2348 -7542.2016.00053.x. 2. Chaudhary, B. L., et al. “Effect of Plant Growth Regulators on Growth, Yield and Quality of Chilli   (*Capsicum Annuum* L.) at Rampur, Chitwan.” Journal of the Institute of Agriculture and Animal Science, Nepal Journals Online, 2006, doi:10.3126/jiaas.v27i0.697. |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | The language and English quality are suitable for scholarly communication. The text is clear, concise, and professional. |  |
| **Optional/General** comments | The study provides valuable data on the differential effects of Paclobutrazol and NAA on chilli growth, yield, and quality. The detailed presentation of results in Table 4.1 is very helpful. Consider adding a brief section on the economic implications of the recommended treatments for farmers. |  |

PART 2:

|  |  |  |
| --- | --- | --- |
|  | **Reviewer’s comment** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Are there ethical issues in this manuscript?** | No, there are no apparent ethical issues in this manuscript. The research involves agricultural practices  and does not seem to raise concerns related to human or animal welfare, or environmental harm beyond standard agricultural research. |  |

**Reviewer details:**

**Tarek Yehia Soliman Kapiel, Cairo University, Egypt**