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| Journal Name: | [**Journal of Advances in Biology & Biotechnology**](https://journaljabb.com/index.php/JABB) |
| Manuscript Number: | **Ms\_JABB\_138722** |
| Title of the Manuscript: | **Optimization of phosphorus level on yield and economics of beetroot (Beta vulgaris L.) under Balaghat (M.P.) region** |
| Type of the Article |  |

**PART 1: Comments**

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|  | **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.** | The present study holds considerable value for the scientific and farming communities, especially in the context of region-specific nutrient management. It explores how varying phosphorus levels influence the yield and profitability of beetroot, a crop known for its nutritional benefits and increasing market demand. Conducted under the agro-climatic conditions of Balaghat, the research provides valuable field-based evidence that can guide fertilizer recommendations. The outcomes are particularly useful for improving crop returns and resource efficiency, offering a step forward in promoting sustainable and economically viable beetroot cultivation. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | Current title, *“Optimization of phosphorus level on yield and economics of beetroot (Beta vulgaris L.) under Balaghat (M.P.) region”*, is suitable as it clearly conveys the key elements of the study—namely the crop (beetroot), the nutrient in focus (phosphorus), the study's objective (optimization for yield and economics), and the specific geographical context (Balaghat, M.P.). However, for improved clarity and flow, a slightly refined version could be:  **Suggested Title:**  *“Effect of Phosphorus Levels on Growth, Yield, and Economic Returns of Beetroot (Beta vulgaris L.) in the Balaghat Region of Madhya Pradesh”* |  |
| **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 presents the study’s objective, methodology, and key findings effectively, making it fairly comprehensive. However, there is room for improvement. The first sentence is overly long and could be made clearer by breaking it into two sentences and emphasizing the main aim, which is to determine the optimal phosphorus level for beetroot cultivation. While the design and results are well-described, a brief mention of statistical significance would strengthen its scientific rigor. Additionally, the abstract could benefit from a short statement on the broader relevance of the findings, such as how they contribute to improving nutrient management or support sustainable farming practices in the region. The mention of the experimental site could also be condensed to improve flow. Including a short note on the environmental or soil conditions would provide better context for interpreting the results. Overall, with minor revisions, the abstract can be made more concise and impactful. |  |
| **Is the manuscript scientifically, correct? Please write here.** | Yes, the manuscript is scientifically accurate, with a clear objective, sound methodology, and relevant data supported by statistical analysis. Minor improvements in the discussion section  could further strengthen its scientific depth. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The references are generally relevant and sufficient, with a few recent studies included. However, adding more up-to-date sources (2022–2023) would strengthen the manuscript. Suggested additions:  1. Sharma et al. (2023) – *Phosphorus strategies in root vegetables* (Agronomy)  2. Patel & Kumar (2022) – *Nutrient efficiency in root crops* (Journal of Plant Nutrition) |  |

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| **Is the language/English quality of the article suitable for scholarly communications?** | Yes, the language and English quality of the article are generally suitable for scholarly communication, with minor revisions needed for clarity and grammar |  |
| **Optional/General** comments |  |  |

**PART 2:**

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|  | **Reviewer’s comment** | **Author’s Feedback** (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 detail)*  *NO* |  |

**Reviewer details:**

**Lakhwinder Singh, Guru Kashi University, India**