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| Journal Name: | [**Journal of Advances in Biology & Biotechnology**](https://journaljabb.com/index.php/JABB) |
| Manuscript Number: | **Ms\_JABB\_135544** |
| Title of the Manuscript: | **Impacts of Sugarcane Biochar on Soil Properties and Mung Bean (Vigna radiata L.) Productivity: A Comprehensive Review** |
| Type of the Article | **Review 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 work is of critical importance to the scientific community as it tackles the double challenge of sustainable agriculture and soil recovery by leveraging the innovative application of agricultural waste in the form of sugarcane bagasse-derived biochar. Through its presentation of the potential of sugarcane bagasse-derived biochar in improving soil physicochemical characteristics and increasing mung bean yield, the study offers valuable data on resource-conserving, environmentally friendly agricultural practice. It also adds to the body of knowledge of the contribution of biochar to nutrient management, carbon sequestration, and climate change mitigation.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** |  |  |
| 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. |  |  |
| Is the manuscript scientifically, correct? Please write here. | ​Based on the information provided and current scientific literature, the manuscript appears to be scientifically accurate and well-founded. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** |  |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes this manuscript is suitable for scholar |  |
| Optional/General comments |  |  |

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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)* |  |

**Reviewer details:**

**Abhishek Malav, Institute of Agricultural Sciences, Banaras Hindu University, India**