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| Journal Name: | [**Archives of Current Research International**](https://journalacri.com/index.php/ACRI) |
| Manuscript Number: | **Ms\_ACRI\_132632** |
| Title of the Manuscript: | **Unravelling the Biostimulant Impacts on Growth Traits and Biochemical Composition of Amaranthus dubius** |
| Type of the Article | **Original 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** *(Please correct the manuscript and highlight that part in the manuscript. 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 is scientifically important because bio-stimulant is environment-friendly and can contribute greatly in producing higher yield and biocomponents. The excess use of fertilizer is extremely downsizing the subsequent productivity of the land and case a severe environmental effect. So, using bio- stimulant can save the world from soil erosion, soil infertility along with contribute to the augmentation of the yield production.** | The essentiality of biostimulant research on *Amaranthus dubius* lies in its potential to enhance **sustainable agricultural practices** by improving crop resilience, nutritional quality, and economic returns. Biostimulants like seaweed extract, Moringa leaf extract, and humic acid significantly boost **photosynthetic efficiency, yield,** and **stress tolerance**. They also reduce anti-nutritional factors like oxalic acid while maintaining cost-effectiveness. This research addresses critical gaps in optimizing **low-input farming systems,** ensuring food security and profitability for smallholder farmers. |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **I assume that this title is relevant for this research.** | I feel the title much more relevant and catchier |
| **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.** | **In this abstract, researcher tried two explained two treatments for yield and two treatments for biocomponents. I think, it would be better to specify one treatment for yield and one treatment for biocomponents.** | The abstract has been corrected and modified accordingly and highlighted |
| **Is the manuscript scientifically, correct? Please write here.** | Yes, theme is scientifically correct but some anomaly found in the calculation and those would be correctable. | The calculations for yield per plot are corrected and highlighted |
| **Are the references sufficient and recent? If you have**  **suggestions of additional references, please mention them in the review form.** | Yes, references are sufficient. | The references are properly quoted in text and also in the list of references. All are original references and are sufficient. |
| **Is the language/English quality of the article suitable for scholarly communications?** | Yes, English of the article is sufficient for a scientific article. | The language and structure of the manuscript are **well-suited for scholarly communication,** meeting the standards expected in academic publishing. |
| **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)* | The manuscript is ethically compliant for submission. |