

Review Form 3

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_125379
Title of the Manuscript:	Morpho-Physiological Study of Four Varieties of Rice (<i>Oryza sativa</i> L.) to Salinity Stress
Type of the Article	Original Research Article

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	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. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	The study is significant as it provides critical insights into the impact of salinity stress on the morpho-physiological traits and yield of rice varieties, a key staple for global food security. By identifying the salt-tolerant varieties like Narendra Usar Dhan 3 and Pokkali, it highlights their potential to enhance productivity in saline-alkali soils. The research underscores the importance of biochemical markers such as antioxidant enzyme activity and osmolyte accumulation in conferring salt tolerance. These findings could inform breeding programs aimed at developing more resilient rice varieties, ensuring better utilization of marginal lands and contributing to sustainable agriculture.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes, but Can be written as suggested below for more effective. "Impact of Salinity Stress on Morpho-Physiology of Four Rice (Oryza sativa L.) Varieties"	
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.	Yes Needs some clarification, as comments given in annotated file	
Are subsections and structure of the manuscript appropriate?	Yes <ul style="list-style-type: none"> • Crop growth, yield attributes and yield parameter, write how these parameters determined in Materials and Methods with appropriate references. • Conclusion, Acknowledgement, Disclaimer (Artificial Intelligence), Competing Interests etc. parts of the manuscript are missing, needs to include/ write before final submission 	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	This study is technically sound because it employs a well-structured experimental design, comparing four rice varieties under three defined salinity conditions, allowing for a clear evaluation of salinity tolerance. By focusing on morpho-physiological traits and yield performance, the research provides comprehensive insights into how salinity impacts critical growth parameters. The inclusion of enzymatic activity measurements, such as catalase and superoxide dismutase, along with proline and carbohydrate accumulation, offers a physiological basis for understanding salt tolerance mechanisms in rice. The study's multi-year approach enhances the reliability and reproducibility of its findings.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. =	Add suggested references [37, 38, 39, 40]	
Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	Avoid grammatical mistakes, improve language	
Optional/General comments	Improve discussion part of the manuscript	

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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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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