

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_104450
Title of the Manuscript:	Efficient Use of Nano-Fertilizer for Increasing Productivity and Profitability along with Maintain Sustainability in Rice Crop; A Review
Type of the Article	Review Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journalijecc.com/index.php/IJECC/editorial-policy>)

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PART 1: Review Comments

	Reviewer's comment	Author's comment <i>(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)</i>
<p><u>Compulsory</u> REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>The manuscript explores the mechanisms of nano-fertilizers, their impact on nutrient uptake, and their role in mitigating abiotic stresses. Additionally, it emphasizes the importance of innovative approaches in nutrient management for sustainable agriculture. The topic of nanotechnology in agriculture is a growing area of research, and this review article contributes valuable insights and information to the scientific community.</p> <p>The title appears to be suitable. It accurately reflects the main focus of the article, which is to review the efficiency and potential benefits of using nano-fertilizers to enhance productivity and sustainability in rice farming. The title provides readers with a clear indication of the article's content.</p> <p>The abstract of the article is comprehensive. It provides a concise summary of the main points covered in the manuscript. It highlights the need for sustainable agriculture, the advantages of using nano-fertilizers, and their potential impact on rice yield and profitability. The abstract also mentions the cost-effectiveness of nano-fertilizers and their ability to improve nutrient availability in rice plants. Overall, the abstract gives readers a good overview of the article's content.</p> <p>Based on the content provided, the subsections and structure of the manuscript seem appropriate.</p> <p>YES</p> <p>Based on the references the article seems to have a decent collection of recent sources. However, there are a few suggestions for additional references that could enhance the article's depth and comprehensiveness:</p> <ol style="list-style-type: none"> 1. Dhivya E., Santhi K., Balamurugan R.(2020) "Barley crop yield forecasting using ensemble method-adaptive boosting of weak regressors" , Indian Journal of Ecology,47,49-52. 2. Rizwan, M., Ali, S., Rizvi, H., Rinklebe, J., Tsang, D. C., & Meers, E. (2022). "Nanomaterials for improving nutrient use efficiency in plants: A critical review." Environmental Research, 215, 112167. 3. Siddiqui, M. H., Al-Whaibi, M. H., & Basalah, M. O. (2015). "Role of Nanoparticles in Plants." In Plant Nanotechnology (pp. 19-39). Springer, Cham. 4. Shamsuddin, Z. H. (2003). "Novel agrochemicals: potentials and challenges." In Agrochemicals: Composition, Production, Toxicology, Applications (pp. 299-308). CRC Press. 	

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	<p>5. Anbarasi M., Karthikeyan, T., L.Ramanathan, Ramani, S. & Nalini N. (2019). Smart multi-crop irrigation system using IOT. International Journal of Innovative Technology and Exploring Engineering, 8(7):153–156.</p> <p>6. Verma, P., Kaur, J., & Kaur, S. (2021). "Potential applications of nanomaterials in agriculture." In Nanobiotechnology in Agriculture (pp. 65-81). Springer, Singapore.</p> <p>7. Hussain, S. Z., & Azam, M. (2018). "Nanomaterials: synthesis, properties, and applications in agriculture and food systems." In Advances in Plant and Crop Physiology (pp. 113-143). Springer, Singapore.</p>	
Minor REVISION comments		
1. Is language/English quality of the article suitable for scholarly communications?	The language used is formal and scientific, suitable for scholarly communication. It includes relevant technical terms and citations to support claims and arguments. The article focuses on nano-fertilizers in rice farming, presenting scientific information and research findings.	
Optional/General comments	nil	

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> NO	

Reviewer Details:

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