

Review Form 3

Journal Name:	Asian Journal of Soil Science and Plant Nutrition
Manuscript Number:	Ms_AJSSPN_124884
Title of the Manuscript:	Harnessing Nitrogen Use Efficiency for Enhancing Productivity in Rice: A Review
Type of the 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.	This manuscript is highly important for the scientific community as it addresses a important challenge in modern agriculture enhancing Nitrogen Use Efficiency (NUE) in rice production. Given the global reliance on nitrogen fertilizers for food security and the significant environmental consequences of nitrogen overuse, the paper's focus on strategies to optimize NUE is both timely and impactful. The comprehensive review of genetic, agronomic, and physiological approaches offers a well-rounded perspective on how to achieve higher productivity while minimizing environmental harm. I appreciate the manuscript for its in-depth analysis and multidisciplinary approach, which bridges knowledge gaps between crop science and environmental sustainability.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes, the title of the article, "Harnessing Nitrogen Use Efficiency for Enhancing Productivity in Rice: A Review," is suitable. It accurately reflects the main focus of the manuscript, which is to explore strategies for improving Nitrogen Use Efficiency (NUE) in rice to boost productivity while addressing environmental concerns. The title is clear, concise, and appropriately conveys the purpose of the review, making it relevant for both researchers and practitioners in agriculture and environmental science.	
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.	<p>The abstract of the article is fairly comprehensive, as it outlines the significance of nitrogen fertilizers in enhancing rice yields, highlights the environmental concerns due to nitrogen overuse, and introduces the focus on improving Nitrogen Use Efficiency (NUE) to address both productivity and environmental challenges. However, a few suggestions could further improve its clarity and depth:</p> <ol style="list-style-type: none"> Specific Strategies: The abstract could briefly mention the main strategies reviewed in the manuscript, such as genetic improvements, agronomic practices (e.g., split application of fertilizers), and the use of controlled-release fertilizers. This would give readers a clearer idea of the content. Outcomes or Benefits: Including a statement about the potential outcomes, such as reduced environmental pollution and improved sustainability, would emphasize the impact of the research. <p>Incorporating these points would make the abstract more informative and focused.</p>	
Are subsections and structure of the manuscript appropriate?	Yes, the subsections and structure of the manuscript are appropriate. The paper is well-organized, with clear divisions that logically flow from one topic to the next.	
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 manuscript appears to be scientifically robust and technically sound due to its comprehensive review of established research on Nitrogen Use Efficiency (NUE) in rice. It thoroughly cites credible studies across various disciplines, including agronomy, genetics, and environmental science, which supports the accuracy of its claims. The manuscript presents well-supported data and research-backed strategies, such as genetic improvements and fertilizer optimization, that are widely recognized within the scientific community. The integration of both agronomic practices and cutting-edge genetic approaches demonstrates a holistic understanding of the topic, making the manuscript technically sound and relevant for practical application in sustainable agriculture.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references in the manuscript are generally sufficient and cover a broad range of relevant studies related to Nitrogen Use Efficiency (NUE) in rice.	

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Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	The language and English quality of the article are generally suitable for scholarly communications.	
Optional/General comments	This manuscript provides a thorough and well-structured review of strategies for improving Nitrogen Use Efficiency (NUE) in rice, addressing both agricultural productivity and environmental sustainability. The interdisciplinary approach, covering agronomic, genetic, and physiological aspects, is commendable. Minor revisions in language clarity and the inclusion of more recent references could enhance the manuscript's overall impact.	

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>	

Reviewer Details:

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