

**Review Form 3**

Journal Name:	<b>Journal of Experimental Agriculture International</b>
Manuscript Number:	<b>Ms_JEAI_121530</b>
Title of the Manuscript:	<b>Nitrogen Uptake and Use Efficiency of Aerobic Rice as Affected by Different Nitrogen Management: A Review</b>
Type of the Article	<b>Review Article</b>

## Review Form 3

### 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)
<p><b>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.</b></p>	<p>Understanding the nitrogen uptake and use efficiency in aerobic rice is crucial for optimizing fertilizer use and enhancing crop yields. Effective nitrogen management strategies can significantly reduce environmental impacts and improve agricultural sustainability, making this manuscript important for advancing rice cultivation practices.</p>	
<p><b>Is the title of the article suitable? (If not please suggest an alternative title)</b></p>	<p>Yes the title is ok</p>	
<p><b>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.</b></p>	<p>Abstract is ok. But the graphical abstract an made this abstract more appealing (Graphical abstract is optional)</p>	
<p><b>Are subsections and structure of the manuscript appropriate?</b></p>	<p>Yes the subsections and structure is ok but you should try to explain the points with proper diagrams. Diagrams are very less</p>	
<p><b>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.</b></p>	<p>In introduction section describe clearly how aerobic rice system is good for conventional rice. For example, you can describe the ways how aerobic rice can help rice to grow in less water compared to conventional paddy fields. You may also describe the how reduction in methane emissions makes aerobic rice cultivation a more environmentally friendly option. And how it can help to promotes better microbial activity and nutrient cycling.</p> <p>Mention the names and mechanism properly which aagronomic management approaches are necessary to achieve the efficient utilisation of synthetic N fertilisers.</p> <p>Write in detail about how traditional mechanism degrade soil structure. You can describe about continuous flooding which leads to soil compaction and reduced aeration. This cycle disrupts soil aggregates and promotes the formation of impairing root growth and overall soil health.</p> <p>You should write the benefits of transformation of conventional rice to aerobic rice system in details such as how aerobic rice technology improve the grain yields up to 6.5 t ha<sup>-1</sup> with water savings. You can also discuss that reduces water usage compared to traditional flooded cultivation, making it both a more sustainable and productive approach.</p> <p>In heading (3) you can also describe the ways through which environmental conditions such as temperature and rainfall can lead to nitrogen loss in rice paddies</p> <p>Write the elements for improving the Nitrogen use efficiency (NUE) in detail.</p> <p>Write the mitigation and adaptation strategies to ensure the balanced use of naturally occurring N components,</p>	

### Review Form 3

<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	Yes	
<u>Minor</u> REVISION comments <b>Is the language/English quality of the article suitable for scholarly communications?</b>	Grammarly can help to minimize the mistake. Us germanely to avoid grammar mistakes.	
<u>Optional/General</u> comments		

### **PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <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>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

### **Reviewer Details:**

Name:	<b>Khadija Ummer</b>
Department, University & Country	<b>Jiangsu University, Pakistan</b>