

**Review Form 3**

Journal Name:	<b>International Research Journal of Pure and Applied Chemistry</b>
Manuscript Number:	<b>Ms_IRJPAC_122933</b>
Title of the Manuscript:	<b>Improved diammonium phosphate from Tahoua natural phosphate and synthetic diammonium phosphate</b>
Type of the Article	

## Review Form 3

### PART 1: Review Comments

<b>Compulsory</b> REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<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>This manuscript holds significant importance for the scientific community as it explores method for the improving the phosphorus content of diammonium phosphate (DAP) fertilizer by using low-grade natural phosphate from Tahoua. The study addresses a critical issue in agriculture by enhancing the nutrient availability of phosphorus, which is essential for plant growth, particularly in regions where soil is deficient in this nutrient. The research could lead to more sustainable agricultural practices by utilizing naturally available resources and reducing dependency on high-grade synthetic fertilizers.</p>	
<p><b>Is the title of the article suitable? (If not please suggest an alternative title)</b></p>	<p>The current title, "Improved diammonium phosphate from Tahoua natural phosphate and synthetic diammonium phosphate," is descriptive and accurately reflects the content of the manuscript.</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>The abstract provides a good overview of the study, highlighting the problem, the methodology, and the key findings. However, it could be improved by adding a sentence about the potential implications of this research on sustainable agriculture and fertilizer production. Also, specifying the results regarding the improvement in phosphorus content and how it compares to conventional methods would make the abstract more informative.</p>	
<p><b>Are subsections and structure of the manuscript appropriate?</b></p>	<p>The subsections and structure of the manuscript are appropriate. The paper is logically organized, with a clear progression from the introduction to the methodology, results, and discussion. This structure allows for easy navigation and understanding of the content.</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>The manuscript is scientifically robust and technically sound. The experiments are well-designed, with appropriate controls and analytical techniques, such as X-ray diffraction and infrared spectrometry, to validate the results. The findings are clearly presented and supported by data, making the conclusions credible. The manuscript contributes valuable knowledge to the field of fertilizer production and soil nutrient management.</p>	
<p><b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b> :</p>	<p>The references are mostly sufficient and relevant to the study. However, it may benefit from the inclusion of more recent references, especially in the context of sustainable agriculture and advanced methods in fertilizer production. This would provide a more comprehensive background and align the study with current trends in the field.</p> <p>While the study provides a detailed description of the methods used to enhance the phosphorus content in DAP fertilizer, it lacks a comprehensive comparison with other potential methods or previous studies. Including a comparative analysis or a discussion on alternative techniques could strengthen the manuscript's argument for the chosen method's efficacy.</p> <p>The manuscript briefly touches on the potential benefits of using natural phosphate from Tahoua, but it does not delve into the environmental implications of this approach. A more in-depth analysis of the environmental impact, such as the sustainability of sourcing natural phosphate and the potential reduction in synthetic fertilizer use, would enhance the manuscript's relevance to the scientific community.</p>	

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Minor REVISION comments <b>Is the language/English quality of the article suitable for scholarly communications?</b>	The language is generally suitable for scholarly communication, but there are some minor grammatical errors and uncooperative phrasings that could be revised for clarity and readability.	
<b>Optional/General</b> comments	Check the spelling mistake and alignment throughout the manuscript	

### **PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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)
<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>P. Priyadharsini</b>
Department, University & Country	<b>Sathyabama Institution of Science and Technology, India</b>