

Review Form 3

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_123987
Title of the Manuscript:	Development of Composite Adsorptive Biosorbent from H3PO4-NaOH-BaCl2 Activated Almond Shell: Experimental and Statistical Approach
Type of the Article	Original Research Article

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PART 1: Review Comments

Compulsory 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>
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 research is very basic look like starter researches study. Need extensive improvement in all the sections of the manuscript. Scientifically it is very weak study.	
Is the title of the article suitable? (If not please suggest an alternative title)	Title should be revised as " Synthesis of Biosorbent Composite using Activated Almond Shell with H3PO4-NaOH-BaCl2 for Methylene Blue removal from water"	
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.	Add some significant results.	
Are subsections and structure of the manuscript appropriate?	Yes	
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.	Revise Introduction section. Provide complete information for the synthesis of composite materials. Activated carbon mostly prepared 300 C temperature. 100+ temperature can only dry the materials. Give complete analytical procedure for MB analysis including the value of wavelength of MB. Mention at what temperature you prepare activated carbon from almonds? Characterization study is very important in material synthesis author did not mention any single study. At least one characterization study should be mention. (XRD, SEM or FTIR etc). Mechanism of the adsorption was not discussed. Author had significant results then why not incorporate equilibrium and kinetic study. What is x1, x2 and x3 in your study?	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Use some following references for the characterization and equilibrium and kinetic study. https://doi.org/10.1016/j.ces.2024.120498 , https://doi.org/10.1016/j.jenvman.2024.120863 , https://doi.org/10.1016/j.jece.2023.109902 , https://doi.org/10.1016/j.jenvman.2022.116925 , https://doi.org/10.1016/j.hazadv.2023.100248	
Minor REVISION comments		
Is the language/English quality of the article suitable for scholarly communications?	Needs improvement in English language.	
Optional/General comments	Nil	

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PART 2:

	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>
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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