



SDI Review Form 1.6

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_64422
Title of the Manuscript:	Study of Adsorption Performance of Biochar for Heavy Metals Removal
Type of the Article	Original Research 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:

(<http://www.sciencedomain.org/journal/10/editorial-policy>)



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PART 1: Review Comments

	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)
<p>Compulsory REVISION comments</p>	<p>In this manuscript, the removal of copper, cadmium, lead, and zinc from synthetic industrial wastewater was investigated using biochars. The topic is interesting and relevant to the scopes of the journal. However, several issues still need to be addressed before publication.</p> <ol style="list-style-type: none"> 1. Page 2, fifth paragraph- this study was designed to evaluate ...; Please write the scientific names of four biochars that are mentioned for the first time in the text because, for example, jazaurin is local name apparently. 2. Page 4, part 2.2- pilot setup, the first line- the pilot consisted of four ...; Here was written that two pumps were used but a pump's performance was explained in the pilot setup. 3. Page 4, part 2.2- pilot setup, the 11th line- the pilot was operating constantly ...; If the pilot was operating for eight hours, how would it be investigated for twelve hours (in the fourth run)? 4. Page 6, part 3.1- effect of size, equation 1; Please correct subscripts along formulae used in the context. 5. Table 2,3 and 4; Please show data with suitable diagrams (not in table) and then show their standard deviation. 6. Page 8, part 3.2- effect of initial heavy metals concentration, the last two paragraphs- when the initial heavy metal ...; Please rephrase these two paragraphs. 7. Page 8, part 3.2- effect of initial heavy metals concentration, the last paragraph- this reduction in removal efficiency ...; Was saturated biochar just occurred in ficus biochar? 8. Page 11, table 5; Please show the effect of time for all biochar types (no just jazaurin) on a diagram. 9. Page 12, part 4- conclusion; Please write the maximum value of removal efficiency in the related sentences. 10. Page 1, abstract; Please write the maximum value of removal efficiency where was mentioned results indicated that the different ... (line 7). <p>This research was just done on synthetic industrial wastewater so it is essential that it be mentioned in the context wherever it is needed.</p>	
<p>Minor REVISION comments</p>	<p>Page 2, part 1- introduction, the end of the first paragraph- coagulation/flocculation, ion exchange, membrane separation, ...; Please write the examples for membrane separation such as MDC (removal efficiency of Cu²⁺ and Zn²⁺ from industrial wastewater by using microbial desalination cell, evaluating the removal efficiency of cadmium and mercury from industrial wastewater using microbial desalination cell).</p>	



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Optional/General comments	The chosen issue would be more interesting if actual sample of industrial wastewater were examined. Due to there are a lot of organic and inorganic material in the industrial wastewater that can adsorb by biochar, the removal efficiency is decreasing. If it were done, the manuscript could be improved. You also can examine a sample that contains four chosen heavy metals together by optimum parameters.	
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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>	

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