

**Review Form 3**

Journal Name:	<b>Journal of Engineering Research and Reports</b>
Manuscript Number:	<b>Ms_JERR_121788</b>
Title of the Manuscript:	<b>ELECTROCOAGULATION AND ELECTROOXIDATION OF AUTOMOBILE INDUSTRY WASTEWATER</b>
Type of the Article	<b>Original Research Article</b>

## 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>Likes: I appreciate the manuscript's thorough investigation of advanced electrochemical techniques, which could lead to more sustainable and effective wastewater treatment solutions. The clear experimental design and comprehensive analysis are particularly commendable.</p> <p>Dislikes: While the manuscript provides valuable insights into electrochemical wastewater treatment methods, it lacks a detailed discussion on the limitations and potential drawbacks of the proposed techniques. The scalability of these methods in industrial settings is not thoroughly addressed, which is crucial for understanding their practical applicability. Additionally, the manuscript could benefit from a more comprehensive comparison with other existing treatment technologies to contextualize the findings better.</p>	
<p><b>Is the title of the article suitable? (If not please suggest an alternative title)</b></p>	<p>Title can be modified as            "Enhancing Automotive Wastewater Treatment: Synergistic Use of Electrocoagulation and Electrooxidation Technologies"            OR            "Electrochemical Methods for the Management of Automotive Industry Effluents: Analyzing Electrocoagulation and Electrooxidation"</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>Expand these APHA, AWWA, WEF in the abstract.</p>	
<p><b>Are subsections and structure of the manuscript appropriate?</b></p>	<p>"Throughout the paper, all experimental readings and values are provided; however, the standard deviation (SD) is not mentioned. To enhance the understanding of the experimentation and the reliability of the results, the authors should include the standard deviation. This addition will offer a clearer picture of the variability and consistency of the data, allowing for a more comprehensive interpretation of the experimental findings."</p> <p>Update Your Methodology Section : Revise the methodology section to include these references. Ensure that each step of your methodology is well-supported by reliable sources. Here's an example of how to incorporate references. Including solid references not only validates your methodology but also enhances the credibility of your research.</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>When collecting large-volume wastewater samples, it's crucial to ensure the sample size is justified and representative of the overall wastewater discharge. While 50 liters might seem excessive, splitting the sample collection into multiple smaller containers (e.g., 5 or 10 liters each) and combining them if needed.</p> <p>Table 1: The provided table compares initial concentrations of various parameters in wastewater samples against national effluent discharge standards. For initial concentrations, Standard deviation should have given so that readers get valuable information about these readings.</p> <p>To improve the plot of conductivity versus time(Fig 4), you can consider several enhancements for clarity, readability, and better data presentation. Here are some suggestions:</p> <ol style="list-style-type: none"> <li>1. Title :             <ul style="list-style-type: none"> <li>• Title: Add a descriptive title to the chart to clearly indicate what the data represents. For example, "Conductivity of Wastewater Over Time."</li> </ul> </li> <li>2. standard deviation             <p>Including the standard deviation (SD) in your plot can provide valuable information about the variability and reliability of the measurements. If multiple measurements were taken at each time point, showing the SD can help understand the consistency of the data.</p> <p>Multiple Measurements: If you have repeated measurements at each time point, showing the mean and SD is very informative.</p> </li> </ol>	

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	<ul style="list-style-type: none"> <li>• Error Analysis: SD can highlight the precision of your measurements and identify any outliers or anomalies. As per the table 4, conductivity is 303 but in the figure 4, it is 257.7.why this difference? ( is it because of SD?) When conducting experiments, especially in the field of wastewater treatment, it's crucial to ensure reliability and accuracy in your results. Performing experiments in triplicates means that each experiment is repeated three times to account for variability and improve the precision of the results. This helps in understanding: Consistency, Statistical Validity, Error Detection and Improved Accuracy.</li> </ul>	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Needs recent papers.	
Minor REVISION comments		
Is the language/English quality of the article suitable for scholarly communications?	English quality is acceptable.	
Optional/General comments		

**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)
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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