

Review Form 3

Journal Name:	Current Journal of Applied Science and Technology
Manuscript Number:	Ms_CJAST_126526
Title of the Manuscript:	Process Optimization in EV Battery Manufacturing: Reducing Waste and Improving Efficiency
Type of the Article	Review Article

General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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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.	<p>Electric Vehicles are growing at a rapid pace, and sooner, there will be large-scale adoption seen in the commercial market for light-duty and heavy-duty vehicles around the world. The authors have touched base on the aspects of an effective EV production and taking measures on reducing the wastes and environmental impacts of Li-ion batteries. With the amount of literature review performed by the authors indicate their sound grasp on this topic and it was presented well. Although some additional literature is recommended since there have been more recent publications by 2024 that may be very helpful for the authors, the paper publication is advisable after addressing the review comments namely:</p> <ul style="list-style-type: none"> Follow the journal-specific referencing format. Provide a reference for Fig. 1: Global demand for EV, & Fig. 2. Correct the Figure numbers. There is no Figure 5 in the paper but the last Figure says Figure 6. Add Figure captions in the paper. For example caption for Figure 6 is missing Add a paragraph in introduction section that clearly says the breakdown of paper. Such as Section 2.0 talks about "Process...", Section 3.0 about "EV waste..." and so on. Mention any major challenges or limitations of this research. To enhance the paper for literature review, it is suggested to include some recent articles from 2024 on waste management of EV batteries such as: "Sustainable waste collection optimization using electric vehicles" https://doi.org/10.1016/j.scs.2024.105343 & EV transition titled "Evaluation of transition to 100% electric vehicles (EVs) by 2052 in the United States" https://doi.org/10.1186/s40807-024-00128-w 	
Is the title of the article suitable? (If not please suggest an alternative title)	Suggested with a modification: Process Optimization in Electric Vehicle (EV) Battery Manufacturing: Reducing Waste and Improving Waste Management Efficiency	
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.	Since the Abstract has subtitles, it is better to remove the conclusion from the Abstract and highlight the methods followed for the paper.	
Are subsections and structure of the manuscript appropriate?	It is recommended to follow a format such as Introduction, Methodology, Results, Conclusion along with all necessary sub-titles that were precluded in your paper.	

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<p>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.</p>	<p>The proposed methodology was clear and concise.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. :</p>	<p>To enhance the paper for literature review, it is suggested to include some recent articles from 2024 on waste management of EV batteries such as: "Sustainable waste collection optimization using electric vehicles" https://doi.org/10.1016/j.scs.2024.105343 & EV transition titled "Evaluation of transition to 100% electric vehicles (EVs) by 2052 in the United States" https://doi.org/10.1186/s40807-024-00128-w</p>	
<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Grammar is good.</p>	
<p>Optional/General comments</p>	<p>Publication of the paper after modifications is possible.</p>	

PART 2:

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

Reviewer Details:

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