

**Review Form 3**

Journal Name:	<a href="#">Chemical Science International Journal</a>
Manuscript Number:	Ms_CSIJ_124803
Title of the Manuscript:	THE ENVIRONMENTAL AND ECONOMIC IMPACTS OF TIRE RECYCLING TECHNOLOGIES
Type of the Article	Experimental

### 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>
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.	This manuscript examines the environmental impacts of tire pyrolysis, assessing their potential benefits and drawbacks in terms of sustainability. By analyzing these products, the study aims to understand how they can contribute to reducing waste and minimizing environmental harm while promoting more sustainable material use	
Is the title of the article suitable? (If not please suggest an alternative title)	Not suitable as it addresses only pyrolysis. Also, authors have not mentioned the environmental and economic impacts. (please include the same) The Environmental and Economic Impacts of Tire Pyrolysis	
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.	Please include how it affects the environment and economy	
Are subsections and structure of the manuscript appropriate?	Need modification. Ensure continuity.	
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.	Both X-ray diffraction and IR spectroscopy are suitable methods for characterizing certain aspects of carbon black obtained from pyrolysis. If possible, the result should be complemented by other techniques like Raman spectroscopy for structural characterization and BET surface area analysis for understanding its porosity and surface area. <a href="https://www.sciencedirect.com/science/article/abs/pii/S0008622314011919">https://www.sciencedirect.com/science/article/abs/pii/S0008622314011919</a>	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Please incorporate more references after revising the introduction part 1. <a href="https://www.sciencedirect.com/science/article/abs/pii/S0008622314011919">https://www.sciencedirect.com/science/article/abs/pii/S0008622314011919</a> 2. <a href="https://www.sciencedirect.com/science/article/abs/pii/S2214785323024537">https://www.sciencedirect.com/science/article/abs/pii/S2214785323024537</a>	

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<p>Minor REVISION comments</p> <p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<p>Need to be modified. Some grammatical errors were found. Please read the entire manuscript thoroughly and revise it.</p>	
<p><b>Optional/General</b> comments</p>	<ol style="list-style-type: none"> <li>1. The introduction lacks an explanation of why tire should be reused or recycled. The introduction can be expanded by including how tyres can be reused. (<a href="https://www.sciencedirect.com/science/article/abs/pii/S2214785323024537">https://www.sciencedirect.com/science/article/abs/pii/S2214785323024537</a>) The introduction does not explain what inspired the authors to pursue this study</li> <li>2. Section 2- Methodology lacks clarity. The authors have not included how they determined the properties. The procedure for determining physical and chemical characteristics.</li> <li>3. Section 3- The sentence after Table 1, the goal should be included in the beginning, not in the results and discussion  'As for the collection of tires and their delivery: if abroad when selling new tires are subject to recycling fees, but this doesn't work for us yet' – the sentence seems to be inappropriate. The same paragraph contains some grammatical errors please check.</li> <li>4. The paper lacks clarity. Each section is to be revised after checking for grammatical errors. Introduction should address the significance, necessity and importance and goal of the research. Methodology should include how it is done (methods adopted by the authors to achieve the objectives). The results and discussion section should analyse the results and the conclusion should be an answer to the goal of the research</li> <li>5. The conclusion is to be revised by incorporating the findings from the current study and how it will be helpful.</li> <li>6. Overall writing is to be improved.</li> <li>7. References seem to be insufficient.</li> </ol>	

**PART 2:**

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

**Reviewer Details:**

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<p>Department, University &amp; Country</p>	<p><b>Saintgits College of Engineering, India</b></p>