

## Review Form 1.7

Journal Name:	<b>Journal of Engineering Research and Reports</b>
Manuscript Number:	<b>Ms_JERR_105430</b>
Title of the Manuscript:	<b>Development and Performance Analysis of a Mini Twin-Shaft Shredder for Efficient Polyethylene Terephthalate (PET) Bottle Recycling in the Philippines</b>
Type of the Article	<b>Original Research Article</b>

### **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:

(<https://www.journaljerr.com/index.php/JERR/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><b>Compulsory</b> REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>Yes, it is. The resulting product dimensions primarily ranged between 25-50 mm. A cost analysis demonstrated that the machine would need to shred a cumulative 6,889 kg of PET bottles to reach the breakeven point, given a custom rate of Php7/kg.</p> <p>Yes, it is. The article title is quite suitable, preferably without mentioning Philippines. <b>Design and Performance Analysis of a Mini Twin-Shaft Shredder for Polyethylene Terephthalate Bottle Recycling</b></p> <p>Yes, it is. The abstract is quite comprehensive.</p> <p>Yes, they are.</p> <p>I think the script is quite scientific.</p> <p>References need to be added with the latest, for example: Shredder machine for plastic recycling: A review paper (2022) (doi:10.1088/1757-899X/1217/1/012007).</p> <p>Reference number 6 is not found in the text, must be deleted. <del>Philippine Agricultural Engineering Standard (2010). Philippine Agricultural Engineering Standard (2000). Engineering Materials – SpurGears for Agricultural Machines – Specifications and Applications. Department of Trade and Industry. PNS/PAES 245:2010.</del></p>	
<p><b>Minor</b> REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Yes, it is.</p>	
<p><b>Optional/General</b> comments</p>	<ul style="list-style-type: none"> <li>➤ It is best to write polyethylene terephthalate only once, then use the abbreviation PET.</li> <li>➤ The unit of currency should be used in US dollars so that the value is better understood by readers outside the Philippines.</li> <li>➤ It is necessary to pay close attention to writing units to avoid errors such as: <math>S_2 = \text{Width of the lower base, mm}^2</math> [no squared numbers]</li> <li>➤ There are many errors in writing the unit of kg, and of kW, you should pay attention.</li> <li>➤ Writing an adverb for a formula notation should use <b>!</b> not =.</li> <li>➤ Proof in the form of a photo of the results of the shredder needs to be shown, is it true that the size is between 25 and 50 mm or not?</li> <li>➤ Use consistent terms such as equation 1, equation 2 and so on in the text, if you state an equation, follow the sequential number and don't mix it with the formula.</li> </ul>	

**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)
<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>	

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**Reviewer Details:**

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Department, University & Country	<b>State Polytechnic of Malang, Indonesia</b>