

## Review Form 1.6

Journal Name:	<a href="#">Current Journal of Applied Science and Technology</a>
Manuscript Number:	Ms_CJAST_86661
Title of the Manuscript:	Design and Fabrication of Mechanical Pedal Powered Hacksaw for Engineering Workshop Practice
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:

(<https://www.journalcjast.com/index.php/CJAST/editorial-policy> )

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**PART 1: Review Comments**

	<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)
<b>Compulsory</b> REVISION comments	<p>Review of the article Design and Fabrication of Mechanical Pedal Powered Hacksaw for Engineering Workshop Practice</p> <p>This article is a significant contribution, generally well written, within the scope of the journal and suitable for publication after some revision.</p> <p>On page 1, in the abstract, state in the past tense The aim of this work was In keywords, correct spelling is Slider Crank Mechanism In the introduction, paragraph 2, line 2, state According to Mukund et al (2017) Paragraph 3, lines 2 - 4, the second sentence of this paragraph can be modified, as follows According to Sivasubramanian et al (2018), an individual can use four times less human power (1/4 HP) by pedaling than by hand-cranking. In line 4, use correct formatting for 1/4 HP Line 6, use comma before, but power capability can depend upon age Paragraph 4, line 1, the first sentence can be supplemented Ashok Kumar et al (2018) stated that Line 3, Sivasubramanian et al (2018) stated that, and similarly in the rest of the text Line 7, comma can be used before, which is mainly used for cutting metals, wood and plastics In listing number ii., comma can be used before, as it saves electricity</p> <p>On page 2, paragraph 1, line 1, correct spelling, where new technologies are introduced every day Line 2, use comma before, particularly petroleum fuel Paragraph 3, line 1, use comma before, which is Paragraph 4, line 5, which corresponds Place the legend of Figure 2 below this figure.</p> <p>On page 3, Figures 3 and 4 should be included and presented in the manuscript. Place the legend of Figure 6 below this figure. Give a short explanation above figures 2, 3, 4, 5, 6 and 7 of what these figures present.</p> <p>On page 4, one decimal can be used for all the numbers, including 1524.0, 889.0 and 508.0</p> <p>On page 5, delete repeated caption of Table 1. In listing, use the first small letters for</p> <ul style="list-style-type: none"> <li>• The power drill</li> <li>• The anvil</li> </ul>	

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	<ul style="list-style-type: none"><li>• The bench vice</li><li>• A work bench</li></ul> <p>Paragraph 2, line 4, place the appropriate abbreviation after numerical control cutters (NCC), or CNC, and use the same abbreviation in the rest of the manuscript</p> <p>On page 6, at the end of the text of paragraph 3, mention, Figure 8, above its presentation.</p> <p>Paragraph 5, line 2, use bold for <b>The Frame:</b></p> <p>Paragraph 6, in listing (c), use the first capital letters for Wood Saw Handle</p> <p>Paragraph 8, line 1, comma can be used before, which has been hardened throughout</p> <p>Paragraph 9, lines 2 and 3, use the first capital letter at the beginning of the sentence, as well as comma adequately</p> <p>It is an ideal blade for the school workshop, as it will take rougher treatment.</p> <p>On page 7, in the first paragraph, listing, state number <b>ii</b> without bracket</p> <p>Paragraph 3, line 1, use comma before, while cutting</p> <p>Line 3, state</p> <p>A simple vice, presented in Fig. 9, was constructed using 2 mild steel flat bar of:</p> <p>The quality of Figure 9 should be improved.</p> <p>Paragraph 5, line 1, mention the appropriate Fig. 10 at the end of the text of this paragraph, before its presentation, and use comma before, as compared to the conventional crank.</p> <p>On page 8, subheading <b>Construction of Pedal:</b> should be clearly visible</p> <p>Mention Fig. 11 in the text of paragraph 1 on this page, before its presentation, for example in line 1, as follows</p> <p>The pedal, presented in Fig. 11, was constructed or modified to achieve the required cutting length or effective cutting.</p> <p>Line 2, use comma before, which is about 12 inches or 304.8 mm</p> <p>Line 3, use the first small letter for driver</p> <p>Line 6, use the first small letters for</p> <p>Original pedaling diameter: 370 mm</p> <p>Modified pedaling diameter: 254 mm</p> <p>Paragraph 2, mention Fig. 12 in the text of paragraph 2, before its presentation</p> <p>Line 3, use commas to separate part of the sentence, which has a length of 228 mm and diameter of 1.84 m,</p> <p>Separate with one enter Fig. 12 and its legend</p> <p>Paragraph 3, line 1, mention Fig. 13 and use comma in the first sentence of this paragraph</p> <p>Guild, presented in Fig. 13, was used to control the hacksaw blade, which is used to cut the metal</p> <p>On page 9, the entire Fig 13 should be clearly presented and the legend placed below it.</p> <p>Paragraph 1, line 1, use comma and plural adequately before, which comprises all the parts that are putting together the components</p> <p>Line 2, use comma before, as shown below</p> <p>Move heading Results and the following subheading to the next page</p>	
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	<p>On page 10, paragraph 2, line 1, state for cycling at 16 – 24 km/h Line 2, 15.5 km/h The quality of Fig. 15. should be improved Mention Fig. 15. in the text of the manuscript above its presentation</p> <p>On page 11, mention Fig. 16 in the text of the manuscript before its presentation and improve the quality of this figure Move heading <b>Efficiency of the Machine:</b> to the next page</p> <p>On page 12, paragraph 3, lines 3 and 4, place in the same row 0.03835 KNm.</p> <p>The same font should be used in all the equations on pages 10 – 12.</p> <p>On page 13, paragraph 1, line 3, use the first small letter for following</p> <p>Format the entire manuscript according to the style of the journal. The English language should be improved at some places, as well as the overall presentation, all the figures should be included and presented.</p>	
<b>Minor</b> REVISION comments		
<b>Optional/General</b> comments	<p>This article is a significant contribution, generally well written, within the scope of the journal and suitable for publication after some revision.</p>	

**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)
<b>Are there ethical issues in this manuscript?</b>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p> <p>There are no ethical issues in this manuscript.</p>	
<b>Are there competing interest issues in this manuscript?</b>	<p>There are no competing interest issues in this manuscript.</p>	

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If plagiarism is suspected, <u>please provide related proofs or web links.</u>	There is no plagiarism in this manuscript.	
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### PART 3: Declaration of Competing Interest of the reviewer:

Here reviewer should declare his/her competing interest. If nothing to declare he/she can write "I declare that I have no competing interest as a reviewer"

I declare that I have no competing interest as a reviewer.

### PART 4: Objective Evaluation:

Guideline	MARKS of this manuscript
Give OVERALL MARKS you want to give to this manuscript ( Highest: 10 Lowest: 0 )  <b>Guideline:</b> Accept As It Is: (>9-10) Minor Revision: (>8-9) Major Revision: (>7-8) Serious Major revision: (>5-7) Rejected (with repairable deficiencies and may be reconsidered): (>3-5) Strongly rejected (with irreparable deficiencies.): (>0-3)	Major Revision: (>7-8)

### PART 5: Reviewer Details:

**This information is mandatory to prepare the Reviewer Certificate properly.**  
**Certificate preparation will not be possible if incomplete information is received.**

Name of the Reviewer	Tamara Jovanovic	
Department of Reviewer	Department of Biomedical Engineering	
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WhatsApp Number of Reviewer	Tel: +381 11 3541 885	
5-8 Keywords regarding expertise of Reviewer	Materials, chemistry, medicinal and pharmaceutical chemistry, chemical technologies, nanotechnologies, biomedical engineering, spectroscopy	