

Review Form 3

Journal Name:	Journal of Materials Science Research and Reviews
Manuscript Number:	Ms_JMSRR_129441
Title of the Manuscript:	SOLAR COOKER, DESIGN, CONSTRUCTION AND PERFORMANCE.
Type of the 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: 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. A minimum of 3-4 sentences may be required for this part.	The subject of solar cookers is very interesting, the paper may be useful to readers. The manuscript considers interesting aspects of design, realization and performance evaluation of solar cookers. The finding of such research may be useful for scientific committee.	THANKS
Is the title of the article suitable? (If not please suggest an alternative title)	The title of the manuscript presents a general aspect, I suggest to rewrite it, for instance: "Design, construction and performance studies of a solar panel cooker" or something close in meaning.	THANKS
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.	The abstract must be representative and a summary of the paper, I suggest to rewrite it since it did not give the findings of the research work.	Thanks. IMPROVED
Is the manuscript scientifically, correct? Please write here.	The manuscript is relatively correct. However, it contains long general aspect and some essential parts are short like method, results, discussions.	Thanks. IMPROVED
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	For References, authors need to actualize your references, there are a lot of studies in literature about solar cookers published recently in different journals.	Thanks. IMPROVED

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<p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>It is acceptable and can be improved.</p>	
<p>Optional/General comments</p>	<p>RECOMMENDATION : Major revision</p> <p><u>Comments to Author:</u></p> <p>- I thanks the authors of this paper, the efforts taken are quite good and the topic is very important. It will be beneficial for peoples and the results of this investigation will be interesting for scientific committee. However, the contribution of authors is not well represented and technically weak. The following suggestions/comments may be incorporated in the manuscript before publication:</p> <p>Title</p> <p>- The title of the manuscript presents a general aspect, I suggest to rewrite it, for instance: Design, construction and performance studies of a solar panel cooker</p> <p>Abstract</p> <p>- Abstract section must be rewrite since it did not give the findings of the research work.</p> <p>1.1 Background of the study</p> <p>- This manuscript is a research paper, the “Background of the study” part is too long. The authors must shorter it considerably.</p> <p>1.2. Statement of the problem</p> <p>1.3. Significance of the project</p> <p>- The two parts “Statement of the problem” and “Significance of the project” must be shortened and included in “General Introduction” part.</p> <p>1.6 Literature review</p> <p>- The “Literature review” is supposed to include some literature papers, but there only few works cited. You need to insert more recent works, with short descriptions. It will be better to talk about some recent reviews done in this field (solar cookers studies).</p> <p>2.0. Theory</p> <p>- All equations appeared in the manuscript must be numbered and written with same style.</p> <p>- Only equations used in experimental part must be cited in theory part.</p> <p>- The “2.1. Applications” part is not necessary; it must be deleted.</p> <p>2.2. Solar Radiation and the Earth's Energy Balance.</p> <p>- The “2.2. Solar Radiation and the Earth's Energy Balance” section is a general literature; no energy balance is given.</p> <p>3.1. Materials Used</p> <p>- For “3.1. Materials Used”, please insert text before table appearance, also insert title and number of this table.</p> <p>3.2. Procedures:</p> <p>- Figure10 is not clear, it must be redrawn to see the notations and dimensions.</p>	<p>Thanks. IMPROVED</p>

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	<p>- Please take another picture from the top of the Figure14.</p> <p>4.0. Experiment - For "4.0. Experiment", please give the detail of tests in a short text before putting results: location, date, beginning and ending of experiment, information about solar radiation, ambient temperature.....</p> <p>4.1. Results - For "4.1. Results", it is recommended to draw some charts (at least one representative chart for water and one for milk) to show the variation of load with solar radiation and ambient temperature, so you can discuss the results.</p> <p>- "The low angle setting is for looking when the sun angle is less than 60 degrees.", you should give justification of this sentence according to test location and sun elevation.</p> <p>5.1 Discussion - For "5.1 Discussion", you should discuss the finding according to cooker performance's, you need to calculate several parameters such as: figures of merits, power, efficiency, heat losses Do not forget that the title of the manuscript contains studies of performances, which is important aspect in solar cooker's studies, and we don't find this part in the body part of the paper.</p> <p>- For "5.3 Recommendations", please rewrite this part to improve English language.</p> <p>For "References", you need to actualize your references, there are a lot of studies done around the world about solar cookers published in different journals.</p>	
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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)
Are there ethical issues in this manuscript?	<u>(If yes, Kindly please write down the ethical issues here in details)</u>	NIL