

Review Form 3

Journal Name:	Current Journal of Applied Science and Technology
Manuscript Number:	Ms_CJAST_125261
Title of the Manuscript:	Enhancing box type solar cookers by using Jatropha oil as sensible heat storage medium
Type of the Article	Original Research 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 (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
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.	The manuscript "Enhancing Box Type Solar Cookers by Using Jatropha Oil as Sensible Heat Storage Medium" introduces a novel approach by utilizing Jatropha oil as a heat storage medium, which has not been widely explored in solar cooking technologies. The authors conduct thorough experiments to evaluate the cooker's performance on both sunny and cloudy days, providing valuable insights into its real-world applicability. Their findings highlight the effectiveness of Jatropha oil in improving thermal retention and cooking efficiency under varying weather conditions. This innovative use of bio-based heat storage adds to the growing body of work in renewable energy solutions.	
Is the title of the article suitable? (If not please suggest an alternative title)	"Performance evolution of Box Type Solar Cookers by Using Jatropha Oil as Sensible Heat Storage Medium"	
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 author can add the operation time of cooking text which is also a comprehensive results of this experiments.	
Are subsections and structure of the manuscript appropriate?	Yes.	
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.	The manuscript "Enhancing Box Type Solar Cookers by Using Jatropha Oil as Sensible Heat Storage Medium" is technically sound due to its innovative approach to improving the efficiency of solar cookers. The authors introduce a locally available and sustainable solution by using Jatropha oil as a heat storage medium, which is both cost-effective and environmentally friendly. The use of readily available materials makes the approach feasible and relevant for widespread implementation in regions with similar resources.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. -	For a efficiency approach the author may add this reference (https://doi.org/10.5281/zenodo.4573025).	
Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	Need to check grammar and flow of manuscript.	
Optional/General comments	The manuscript titled "Enhancing box type solar cookers by using Jatropha oil as sensible heat storage medium" presents an interesting approach to improving solar cookers through the use of Jatropha oil. However, the Introduction section lacks depth and could benefit from more comprehensive background information to provide context for the research. It is important to include a detailed discussion on the significance of solar energy applications and how the use of Jatropha oil as a heat storage medium fits within the broader scope of renewable energy solutions. Additionally, while the literature review touches on some relevant studies, there are noble aspects in the proposed method that deserve more attention. Further elaboration on the novelty of the approach compared to existing techniques would strengthen the manuscript. Highlighting how this work builds upon or diverges from previous research could help clarify the contributions and importance of the study.	

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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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