

**Review Form 3**

Journal Name:	<b>Asian Journal of Advanced Research and Reports</b>
Manuscript Number:	<b>Ms_AJARR_121443</b>
Title of the Manuscript:	<b>Design Sustainability of Solar Water Heating Systems</b>
Type of the Article	<b>Accepted with Minor Revision</b>

### Review Form 3

#### PART 1: Review Comments

<b>Compulsory</b> REVISION comments	<b>Reviewer's comment</b>	<b>Author's Feedback</b> (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>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.</b>	The present study focuses on the sustainability of solar water heating systems (SWHSs) to identify the sustainability indicators necessary for improvement. The establishment of sustainability indicators and sub-indicators towards the assessment of SWHSs identified for the benefit of energy planning from the manufacturer to the end user. This research focus is on sustainability using the computational strength of the fuzzified MCDM method to assess the sustainability of SWHSs using traditional and peculiar sustainability indicators.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	<b>Title is Ok but it can modify as per study.</b>	
<b>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.</b>	<b>Author may include some result finding in abstract.</b>	
<b>Are subsections and structure of the manuscript appropriate?</b>	<ol style="list-style-type: none"> <li>1. Equation no 8 need to check.</li> <li>2. Table no 2 to 7 need to present in appropriate manner.</li> <li>3. Fig no 3 and 4 colour coding need to display and explain properly.</li> <li>4. Conclusions need to write point-wise to focus the finding properly.</li> <li>5. There should be numbering and uniform format for References</li> </ol>	
<b>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.</b>	Author develop a fuzzified multi-criteria decision model (MCDM) using cosine similarity index for the sustainability assessment of SWHSs namely; integrated collector storage (ICS), thermosyphon (TS), active open-loop (AOL) and active closed-loop (ACL). The article was able to identify the indicators necessary for improvement following the sustainability assessment of SWHSs in domestic and industrial applications. The conceptual design developed based on working principle of SWHSs and responses of design experts for sustainability data.	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	<b>Most recent references should be included in manuscript like 2023 and 2024 study papers.</b>	
<b>Minor</b> REVISION comments		
<b>Is the language/English quality of the article suitable for scholarly communications?</b>	The language quality is medium. It can improve with grammatical error minimization.	
<b>Optional/General</b> comments		

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

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**Reviewer Details:**

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