Review Form 3

Journal Name:	**Physical Science International Journal**
Manuscript Number:	**Ms_PSIJ_123483**
Title of the Manuscript:	**Design, optimization, and performance characterization of Terracotta Flat Tubular Direct Evaporative Cooler**
Type of the Article	**Research Article**

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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.	This manuscript provides a significant contribution to the scientific community by presenting a sustainable and practical solution for improving indoor air quality and thermal comfort in regions with limited access to power. By utilizing locally sourced materials and a simple yet effective design, the study not only advances the understanding of direct evaporative cooling systems but also offers a feasible, low-cost alternative for rural households, schools, and small-scale farming operations.	
Is the title of the article suitable? **(If not please suggest an alternative title)**	The title is fine.	
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 is nicely written.	
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.	This manuscript is scientifically robust and technically sound due to its well-structured experimental approach, and clear presentation of results. The use of well-defined parameters like temperature reduction, relative humidity, cooling effectiveness, and the Feasibility Index further demonstrates a thorough understanding of the performance metrics for evaporative cooling systems. Moreover, the integration of locally sourced materials and the practical design of the prototype align with real-world constraints, reinforcing the manuscript's technical relevance and applicability. The conclusions drawn are supported by data and align with established principles of thermodynamics and energy efficiency, adding to the scientific rigor of the work.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	References are sufficient.	
Minor REVISION comments **Is the language/English quality of the article suitable for scholarly communications?**	Yes	
Optional/General comments	Correct the spelling of fan in Table 1 (Under Material column) and also in Figure 3. In result and discussion section, correct the figure numbers within the text.	

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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?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

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