

## Review Form 1.7

Journal Name:	Asian Journal of Physical and Chemical Sciences
Manuscript Number:	Ms_AJOPACS_96779
Title of the Manuscript:	Numerical study of the thermal behavior of a hollow block with phase change materials (PCM) in the Sahelian zone
Type of the Article	Original research papers

### 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.journalajopacs.com/index.php/AJOPACS/editorial-policy> )

### PART 1: Review Comments

	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)
<p><b>Compulsory</b> REVISION comments</p> <p>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p>3. <b>Is the abstract of the article comprehensive?</b></p> <p>4. <b>Are subsections and structure of the manuscript appropriate?</b></p> <p>5. <b>Do you think the manuscript is scientifically correct?</b></p> <p>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></p> <p><b>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</b></p>	<ol style="list-style-type: none"> <li>The manuscript is important for scientific community, especially for building architecture and HVAC system design.</li> <li>The "Sahelian zone" is stated in the title, but there is not much information relating the results of the research with the Sahelian zone. Is the outdoor temperature the same as the ambient temperature in the Sahelian zone? If yes, then it should be specified or better measured and used in the simulation.</li> <li>The abstract is quite comprehensive except that it does not address the importance of this work.</li> <li>The subsections and structure of the manuscript is appropriate.</li> <li>Some components are missing in the manuscript, especially the validation of the numerical simulations. Some measurements must be performed at the beginning, because the results can be used to validate the numerical simulation results. Otherwise, the results of the numerical simulations may be questioned.</li> <li>Some of the references are outdated. Please add more recent work as references. There are many works that have obtained similar results with different PCM and in different parts of the world.</li> <li>In all the diagrams, there is a line with the legend "Text". What does this line show? Have any unfinished diagrams been submitted?</li> </ol>	
<p><b>Minor</b> REVISION comments</p> <p>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></p>	<p>There are some spelling and grammatical errors. The huge one is the spelling of PCM. In many of the sections, it is spelled as MCP. Please check and make corrections.</p>	
<p><b>Optional/General</b> comments</p>	<p>Only temperature is shown in the results. If possible, please add other parameters in the results.</p>	

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(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)</i>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

Name:	<b>Norhazwani Abd Malek</b>
Department, University & Country	<b>Universiti Tenaga Nasional, Malaysia</b>