

## Review Form 1.7

Journal Name:	Asian Journal of Physical and Chemical Sciences
Manuscript Number:	Ms_AJOPACS_96367
Title of the Manuscript:	Numerical Study of Natural Solutal Convection in an Isoscele Trapezoidal Cavity
Type of the Article	Original Research Article

### 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. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <b>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</b></p>	<p>1. The manuscript is important for scientific community because</p> <ul style="list-style-type: none"> <li>- natural convection in cavity is an important problem due to its significant practical applications such as air-conditioned system in building, furnace and home heating, electronic equipment cooling, drying foods etc.</li> <li>- the geometrical configuration studied by author is similar to the air draft zone of the "ASUTO" charcoal stove, which is one of the most used charcoal cooking stoves in Africa, especially in Togo</li> </ul> <p>2. The title of the article is suitable.</p> <p>3. The abstract of the article is comprehensive.</p> <p>4. The subsections and structure of the manuscript are appropriate.</p> <p>5. The manuscript is scientifically correct.</p> <p>6. The references are sufficient and correct. <b>However, there is an issue with reference [21] (Aydin et al. [21], pages 7 and 9) because it does not appear in REFERENCES (pages 21 and 22). The author should solve this issue.</b></p>	
<p><b>Minor</b> REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Generally, the language/English quality of the article is suitable for scholarly communications. However, there are some minor English issues:</p> <ul style="list-style-type: none"> <li>- the author should write <b>length</b> of the cavity instead of <b>lengh</b> of the cavity at page 2</li> <li>- the author should write <b>particularly</b> in TOGO instead of <b>partuculary</b> in TOGO at page 4</li> <li>- the author should write <b>bottom</b> horizontal wall instead of <b>botom</b> horizontal wall at page 6</li> <li>- the author should write <b>effect</b> instead of <b>effet</b> at pages 19 and 20</li> <li>- the author has to replace the word <b>regiment</b> with <b>regime</b> at page 21</li> </ul>	
<p><b>Optional/General</b> comments</p>	<p>Unfortunately, the author does not compare its numerical results with the experimental ones. She compares its numerical results only with some numerical results provided by other researchers. However, it is very difficult to obtain the experimental results. The absence of experimental results is the main drawback of this manuscript.</p> <p>I accept its publication.</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:**

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