**SDI Review Form 1.6**

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| Journal Name: | **British Journal of Applied Science & Technology** |
| Manuscript Number: | **2015_BJAST_17834** |
| Title of the Manuscript: | **MEASURMENT OF THERMAL CONDUCTIVITY AND SPECIFIC HEAT CAPACITY OF THREE MAJOR GEOMORPHOLOGICAL UNITS IN AKWA IBOM STATE, NIGERIA.** |
| Type of the 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:

(http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline)

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**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)* |
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| **Compulsory** REVISION comments | Authors should try to draw the general conclusions, e.g., (i) try to explain why collected samples differ, (ii) try to predict thermal conductivity and heat capacity in different part of Nigeria, (iii) discuss either obtained data of SHC and TC are high/low – what is the meaning of such data for common people.<br><br>It could be interesting to try to discuss correlation between SHC and TC (or lack of such correlation, why?)<br><br>It could be valuable to show map of Nigeria with marked regions from which samples were taken.<br><br>Some parts of manuscript should be rewritten, e.g., about sample collection and preparation; it is unclear why/if samples were dried twice (why first drying was applied? after this drying samples "were made wet")<br><br>The first sentences of "Measurement of specific heat capacity" and "Measurement of thermal conductivity" should be deleted. It is obvious that balance, thermometer, beaker, etc should be used. By the way, authors must decide (and unify) either they use specific heat capacity written from small or capital letters.<br><br>Paper should be clearly divided for experimental and results /discussion parts.<br><br>All symbols used in text/tables must be defined/unified, | |

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| | e.g., there are different symbols described in the text (M1, M2) and used in the table (Ms, Mcw, Mnw).<br><br>Obtained results should be discussed in comparison with recent literature showing similar data from different world region. | |
| **Minor** REVISION comments | English should be improved; there are some sentence difficult to understand, e.g.,<br>i) "…gives rise to a decrease in K."<br>ii) "…solar temperature is given be" (by?),<br>iii) "genera equation" instead of "general solution"<br><br>Space should be inserted between number and unit, e.g., 1813.64 $jkg^{-1}k^{-1}$, 0.272 w/mk<br><br>Key Words: "Heat" – should start from capital letter<br><br>Atm (Eq. 1), x,t (Ex. 4) should be as subscript - $T_{atm}$, $T_{(x,t)}$<br><br>After last equation in "theory" part (7), some explanation should be written, e.g., which equation for which conditions (24h) and why will be used…<br><br>It is impossible to read text in the last two columns in Table 2 and in third, fourth and fifth columns in table 4. | |
| **Optional/General** comments | | |

**Reviewer Details:**

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