



SDI Review Form 1.6

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

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(<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)
Compulsory REVISION comments	The manuscript provides an experimental and theoretical study for thermal conductivity and specific heat capacity of some samples collected from three major landforms in Beach Ridge Sand, Coastal Plane and Sandstone/Shale Hill Ridges. The research work proposed by the authors has some interesting for the journey. but there are some points to be addressed before publishing the manuscript: 1).the abstract is not well prepared. Are c and SHC all involved in this paper to stand for specific heat capacity ? 2).the unit $\text{J kg}^{-1}\text{K}^{-1}$ should be $\text{J kg}^{-1}\text{K}^{-1}$ and W/mK should be $\text{W m}^{-1}\text{K}^{-1}$ for the thermal conductivity. The authors should take much earnest in the paper writing. 3). References cited in the introductions seems out of times. The recent research works should be looked up for more information. 4) The sentence in line 41 and 42 seems a little strange in grammar. 5) but in line 46 should be where, 6) 0°C in line 53 and 55 should be $^\circ\text{C}$. 7) the names of the item in the last three columns of table 2 is missing. The same is in table 4.	1). C is the specific heat capacity while SHC is the abbreviation. Corrected. 2). the unit $\text{J kg}^{-1}\text{K}^{-1}$ for the SHC and $\text{W m}^{-1}\text{K}^{-1}$ for the thermal conductivity. Corrected. 3). All References must be cited. The comment is relevance because, that was why this research was carried out to make it recent. 4). The sentence in line 41 and 42 grammar is correct. We were try to defined some terms used in the equation (1). Ref: Akpabio, G. T. and Ituen, E. E, and Inyang, S. H; (2004): Thermal Response of different rock samples for a passively cooled building design. Journal of Natural and Applied Science. Vol.5. No. 1 pp.25-30. 5).but in line 46 should be where:-----, not relevance. 6).$^\circ\text{C}$ corrected in line 57



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	8). The research work seems a little simple for the publication in notable journal.	7). the item are correct. The names are obtained from equation (8) C_s = specific heat capacity of the sample M_{nw} = mass of hot water ($M_3 - M_2$) C_w = specific heat capacity of water M_c = mass of calorimeter C_c = specific heat capacity of calorimeter M_{cw} = mass of cold water ($M_2 - M_1$) M_s = mass of sample θ_1 = initial temperature of mixture θ_2 = temperature of the hot water θ_3 = final temperature of the mixture M_1 = mass of calorimeter + sample M_2 = mass of calorimeter + mixture M_3 = mass of calorimeter + mixture + hot water
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		