



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2014_BJAST_12679
Title of the Manuscript:	EVALUATION OF THE GEOTECHNICAL PROPERTIES OF RESIDUAL SOILS IN TWO DIFFERENT BASEMENT COMPLEX AREAS OF 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)																																																																						
Compulsory REVISION comments																																																																								
Minor REVISION comments	1) I strongly recommend that the authors include in the paper, a table summarizing the laboratory test results, as follows: <table border="1"> <thead> <tr> <th rowspan="2">Properties</th> <th colspan="2">Samples</th> <th rowspan="2">Reference Limits (BS-1377)</th> </tr> <tr> <th>ORS</th> <th>ABS</th> </tr> </thead> <tbody> <tr><td>Granulometry</td><td></td><td></td><td></td></tr> <tr><td>Specific Gravity (g/cm³)</td><td></td><td></td><td></td></tr> <tr><td>LL (%)</td><td></td><td></td><td></td></tr> <tr><td>PI (%)</td><td></td><td></td><td></td></tr> <tr><td>Linear Shrinkage (%)</td><td></td><td></td><td></td></tr> <tr><td>Free swell (%)</td><td></td><td></td><td></td></tr> <tr><td>Liquidity Index</td><td></td><td></td><td></td></tr> <tr><td>Group Index</td><td></td><td></td><td></td></tr> <tr><td>Plasticity plots</td><td></td><td></td><td></td></tr> <tr><td>Maximum dry density (g/cm³)</td><td></td><td></td><td></td></tr> <tr><td>Optimum moisture content (%)</td><td></td><td></td><td></td></tr> <tr><td>Change in void ratio</td><td></td><td></td><td></td></tr> <tr><td>Change in porosity</td><td></td><td></td><td></td></tr> <tr><td>Cohesion (kN/m²)</td><td></td><td></td><td></td></tr> <tr><td>Shear Strength (kN/m²)</td><td></td><td></td><td></td></tr> <tr><td>CBR (%)</td><td></td><td></td><td></td></tr> </tbody> </table> 2) I also suggest the authors to change or improve the quality of Figure 1 and Figure 2. It is also necessary to indicate appropriately the location of the samples (Ors and Abs) in the map. 3) Lines 90 to 92 must be included in the Methodology Item.	Properties	Samples		Reference Limits (BS-1377)	ORS	ABS	Granulometry				Specific Gravity (g/cm ³)				LL (%)				PI (%)				Linear Shrinkage (%)				Free swell (%)				Liquidity Index				Group Index				Plasticity plots				Maximum dry density (g/cm ³)				Optimum moisture content (%)				Change in void ratio				Change in porosity				Cohesion (kN/m ²)				Shear Strength (kN/m ²)				CBR (%)				Done: Table 1 , page 14 [Noted for future articles] Embodied in the reference: BS-
Properties	Samples		Reference Limits (BS-1377)																																																																					
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	4) Include a photo showing each soil sample. 5) In Figure 6, LI must vary from 0 to 100%. 6) After the word “soil” in the title of the manuscript, include “as road subgrade”. 7) The British Standard BS-1377 quoted in the Methodology Item is not included in the References. 8) It was not mentioned in the manuscript the name and the location of the laboratory, in which the soil samples were tested. 9) I recommend to the authors to include some information about the traffic of the Daura and Ore-Ondo roads. 10) I would not use the term “analytes properties”. Instead, I would use “geotechnical properties”. 11) Define concisely the Tresca Criterium in the manuscript. 12) The authors should try to explain the reasons for the selection of the sample sites. For example, is there a near future perspective for the construction of a new road nearby or the duplication of an existing road?	1377) (Photos of soils not taken in the field.) (Corrected) (Used only in line 292 in order to avoid ‘ begging the question’) (Omission corrected in lines 311-312) (included in lines 84-85) (changed as advised) (Done in lines 208-214) (Seems already encapsulated in the article)
<u>Optional/General</u> comments	The paper describes well the geotechnical properties of residual soil samples and their suitability for road subgrade. The most important geotechnical laboratory tests were applied and evaluated for this purpose.	