



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	Ms_BJAST_23128
Title of the Manuscript:	ANALYSIS AND CHARACTERIZATION OF SELECTED CLAY FROM SOUTH-WEST NIGERIA FOR CERAMIC FILTERS APPLICATION
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:

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



SDI Review Form 1.6

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	1. The manuscript need to be working out in more detail. The purpose of the study as well as the state of the art of the problem to be solved applying clays are absolutely not described in the Introduction part. 2. The title of the manuscript makes authors to consider the main parameters and criteria applied for ceramic filters. However, there is no words about that. Why the clay should be used as ceramic filters? Which parameters should they suit to be applied as CWFs, etc. 3. The title says "Analysis and characterization of clays...", however, the manuscript contains only some data, which were not analysed or analysed extremely weak. The investigated clays were not characterized, obviously, no criteria were put forward from the very beginning. My suggestion is to: i) consider the issue for water purification in Nigeria; ii) consider the current methods applied for water treatment; iii) consider the advantages of CWFs application for water treatment; iv) describe requirements applied to CWFs and to clays that can be used for CWFs production;	1. This research is part of an on-going work in selection of clay deposits from different locations in Nigeria, with the view to <u>propose their possible use</u> in CWFs, this was well stated in line 35-38 2. The study was design to analyse, characterize and investigate the working properties of these clay deposit selected from different location within south-west Nigeria. Used of clay as ceramic filters is not a novel research, the source of clay used is however a subject of many on-going research especially topical areas where clays are naturally abundant 3. The issue of no characterization been carried out?? we carried out the following analysis and charaterizations: a. Moisture content b. Bulk density c. Apparent porosity d. Linear shrinkage e. Water absorption f. Compressive strength g. XRD h. XRF The reviewer was not fair to the authors in this



SDI Review Form 1.6

	v) do carry out an analysis of experimental data against the described criteria; vi) finally, make a characterization of the extended number of investigated samples based on the results of analysis done in previous point (see above (v)). Following this order of problem vision and consideration of the results, a good manuscript can be prepared. 4. A detail mineralogical characterization can/should be done based on the XRD-data, please, give mineralogical composition of each sample. Each figure and each table with experimental results have to be analysed, and results of the analysis have to be described below the table/figure.	regards. 4. XRD data were analysis, and mineral composition determine by XRF, however more detail analysis will be stated. 5. Noted and correction will be effected accordingly.
<u>Minor</u> REVISION comments	- Specify main reflexions in the figures Fig.1-3. - How the crystal size (Table 2) was calculated? - The references do not follow the author's guide of the Journal. - Some reference in the text of the manuscript are absent in the list of reference. - The style of referring is not as required in the author's guide.	Noted and correction will be effected accordingly. crystal size was calculated using the Debye Sherrer's formula,
<u>Optional/General</u> comments		