



## SDI Review Form 1.5

### PART A:

|                                 |                                                                                                                                                |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Journal Name:                   | <a href="#">British Journal of Applied Science &amp; Technology</a>                                                                            |
| Manuscript Number:              | <b>MS: 2012/BJAST/1216</b>                                                                                                                     |
| Title of the Manuscript:        | <b><i>ADSORPTION KINETICS FOR THE REMOVAL OF BIOCHEMICAL OXYGEN DEMAND (BOD) FROM DYE EFFLUENT ONTO POULTRY DROPPINGS ACTIVATED CARBON</i></b> |
| Manuscript received on (Date)   |                                                                                                                                                |
| Review comment submitted (Date) |                                                                                                                                                |

### Comments:

1.The experimental design is appropriate.

2.Some grammatical expression may be changed/ re organised for clarity of purpose. Examples of such are in **line 66-67** which reads : The crucibles were introduced into a muffle furnace at 600°C for 5 minutes after which **they were poured from the crucible-----**.

**Suggestion:** after which the content of each crucible was poured----- (**Suggestion follow**).

**Line 75- 76** which reads The above procedure was repeated for different residual time until substantial amount of activated carbon was obtained.

**Line 101-102** The author needs to express the step clearly to avoid ambiguity such that the following question will be answered:

**Was another 2g activated carbon used for fresh volume of dye effluent Or the same 2g activated carbon was used for fresh volume of dye effluent until 500ml filtrate was obtained? (Corrected).**

**:Suggestion:** This was repeated until a substantial amount of activated carbon was obtained and the procedure was carried out for different residual time (10min and 15min).(**Suggestion follow**).



### SDI Review Form 1.5

3. The author should state the model of all the equipment used ( pH meter, Conductivity meter---etc.) **(Model stated).**
4. In section 2.4 where the BOD was determined, it will be good if the author(s) could display the titre values in the appendix and also show some specimen substitution into the equation in line 117 . **(Not necessary since the % BOD removed has been discussed in related contact time).**
5. More recent and relevant articles should be included in the references. The most recent cited article in the manuscript is Wikipedia (2010). The article below is recent, relevant and should be included: ( **The research was carried out in 2010 and stated in the abstract**).

Suggestion: Alade AO, Amuda OS, Ogunleye OO, Okoya AA (2012) Evaluation of Interaction of Carbonization Temperatures and Concentrations on the Adsorption Capacities and Removal Efficiencies of Activated Carbons Using Response Surface Methodology (RSM). J. Bioremed Biodegrad 3: 134. Doi: 10.4172/2155-6199.1000134



## SDI Review Form 1.5

### **PART B: Review Comments**

|                                                                       | <b>Reviewer's comment</b>                                                                                                                                                                          | <b>Author's comment</b> (if agreed with reviewer, correct the manuscript and highlight that part and write here 'Corrected'/ if not agreed, give suitable justifications) |
|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General comment:</b>                                               | The manuscript is well written except for few grammatical expression that needs re-organisation.                                                                                                   | Corrected                                                                                                                                                                 |
| <b>Specific comments:</b>                                             | There is need to show some of the values used to generate figure 1 at least as an appendix.                                                                                                        | Not necessary since the correct formulas are given.                                                                                                                       |
| Title and abstract                                                    | The title and abstract are appropriate                                                                                                                                                             |                                                                                                                                                                           |
| Introduction                                                          | The introduction is adequate.                                                                                                                                                                      |                                                                                                                                                                           |
| Review of literature (Heading may differ in the case of review paper) | More recent and relevant literatures could be reviewed.                                                                                                                                            | Literature review included.                                                                                                                                               |
| Materials & methods (Heading may differ in the case of review paper)  | The methods used are scientifically appropriate                                                                                                                                                    |                                                                                                                                                                           |
| Results & discussion (Heading may differ in the case of review paper) | The results are sufficiently informative and appropriately discussed.                                                                                                                              |                                                                                                                                                                           |
| Conclusion                                                            | The research work has been able to conclude that poultry droppings which could be an environmental problem if not well disposed is a useful raw material for the removal of BOD from dye effluent. |                                                                                                                                                                           |
| References                                                            | There is need to cite more recent articles                                                                                                                                                         | Added.                                                                                                                                                                    |