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| Journal Name: | [**Asian Journal of Environment & Ecology**](https://journalajee.com/index.php/AJEE) |
| Manuscript Number: | **Ms\_AJEE\_138938** |
| Title of the Manuscript: | **Appraisal of radioactive particle concentration in near-surface weathered regolith of Biliri, Gombe state** |
| Type of the Article |  |

**PART 1: Comments**

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|  | **Reviewer’s comment**   |  |  | | --- | --- | | **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer** | | | **review.** |  | | | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | * **Provides activity concentration of Alpha and Beta particles in soil of Gombe state** * **Reveals association between activity concentrations and specific geological formations**  **Found the gross alpha and beta activity concentrations below the recommended limits**  **Explains associated radiological health hazards to the inhabitants.** | | Thank you for mentioning the importance of the manuscript. |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **yes** | | Okay |
| **Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.** | **yes** | | Okay |
| **Is the manuscript scientifically, correct? Please write here.** | yes |  | Thank you |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | ok |  | Okay |
| **Is the language/English quality of the article suitable for scholarly communications?** | yes |  | Okay |
| **Optional/General** comments |  | **The Methodology should be in detail, author should explain the following points:**   * **Detector (about gas, Operating voltage …)** * The alpha and beta sources used for Calibration * **Counting time for sample** * **The alpha and beta efficiency** * **Background readings for alpha and beta activity concentrations** | Thank you for pointing out the relevant areas of improvement. |
|  |  | **The name of software used for preparing maps should be mentioned.** |  |
|  |  | **After oven dried, the weight of sample “E” has increased (Table 2), which needs explanation.** |  |
|  |  | **The counting time for α and β-counts is not mentioned for Table 3.** |  |
|  |  **Some typo (in second paragraph of introduction, closing bracket is used twice, in fourth paragraph, “coordinates ranging from 9°51 N” unit for 51 is missing and so on.)** | |  |

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| **PART 2:** | | |
|  | **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)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |