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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**

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| **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.**
 |   |
| **Is the title of the article suitable?** **(If not please suggest an alternative title)**  | **yes**  |   |
| **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**  |   |
| **Is the manuscript scientifically, correct? Please write here.**  | yes  |  |   |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  | ok  |  |   |
| **Is the language/English quality of the article suitable for scholarly communications?**   | yes  |  |   |
| **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**
 |   |
|  |   | **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)* |  |

**Reviewer details:**

**Anita Mishra, Tribhuvan University, Nepal**