

Review Form 1.6

Journal Name:	Asian Journal of Advanced Research and Reports
Manuscript Number:	Ms_ AJARR_86315
Title of the Manuscript:	TRANSFER FACTOR OF RADIONUCLIDES FROM SOIL TO PLANT IN SELECTED DUMP SITE OF OBIO/AKPOR AND IKWERRE LOCAL GOVERNMENT AREAS OF RIVERS STATE
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:

(<https://www.journalajr2p.com/index.php/AJR2P/editorial-policy>)

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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	<p>Data in Tables 1 and 2 are presumably measured activities of the crop and soil samples collected at the dump site as author laboured to explain clearly.</p> <ol style="list-style-type: none"> 1. However, no discussion is attempted on the type of instrument used and hence raises eyebrows, was it really done in the first place? 2. Errors or accuracies of the "measured" data are different for different samples and type of radionuclide. If the same instrument was used to measure the activities of the samples, then one could expect the same error for all the measurements and should be the estimated error from the instrument. 3. Tables should be redesigned by removing the column for S/No. (serve no purpose because it is taken care of sterilization of the sample code. In addition, columns 2 to 4 should have a common column. For instance, in Table 1, the titled should be "Activity concentration of radionuclide in crop samples ($\pm x.xx$, Bqkg⁻¹ dry weight). Do the same for Tables 2 and 3. 4. In 'Material and Methods' section, include a subsection on 'Experimental Measurements' and describe the instrument(s) used in the measurements and how the measurements were done. 5. No discussion is made about Uranium concentration in the crop samples? 6. In the transfer equation on sample analysis, the units of activities in the numerator and denominator should be put in bracket to disguise them from equation parameters. 	
Minor REVISION comments	<ol style="list-style-type: none"> 1. Some grammatical mistakes to be corrected as highlighted in the manuscript. 2. Simultaneous use of radionuclide name and chemical symbol in the discussion should be avoided. Use chemical symbols once you have defined in the document. This is the reason why symbols and abbreviations are introduced. 3. Put space between numerical value and unit of any parameter. 4. Does the high TF of ⁴⁰K be associated with uptake of stable K isotope, since it is crop nutrient? 5. Check validity of ⁴⁰K, ²³²Th < ²³⁸U under TF section based on the results presented. ⁴⁰K has a higher value, followed by ²³²Th and lastly by ²³⁸U. 	
Optional/General comments	I suggest that in the title, put the word 'selected' before radionuclide.	

Comment [j1]: Is this statement correct based on the average values of TFs?

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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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