



SDI Review Form 1.6

Journal Name:	Asian Journal of Environment & Ecology
Manuscript Number:	Ms_AJEE_33373
Title of the Manuscript:	ASSESSMENT OF THE RADIATION HAZARD INDICES FROM TERRESTRIAL RADIATION IN MINING SITES IN BENUE STATE, NIGERIA.
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	Due to the timeliness and great importance of the questionability of the underpinnings of cancer risk assessment based on Linear-No-Threshold (LNT) model (assumption)-which the ICRP uses, there should be a paragraph discussing the that these future cancer estimates are based on the traditional assumed LNT, and that the more realistic estimates are probably negligible, based on either a threshold or hormesis model of risk assessment. See these articles by Calabrese, E.J.: Calabrese EJ. On the origins of the linear no-threshold (LNT) dogma by means of untruths, artful dodges and blind faith. Environ Res. 2015 Oct;142:432-42. Calabrese, E.J., 2017a. The threshold vs LNT showdown: dose rate findings exposed flaws in the LNT model Part 1. The Russell-Muller debate. Environ. Res. 154, 435–451. http://dx.doi.org/10.1016/j.envres.2016.12.006. Calabrese, E.J., 2017 b. The threshold vs LNT showdown: dose rate findings exposed flaws in the LNT model Part 2. How a mistake led BEIR I to adopt LNT. Environ. Res. 154, 452–458. http://dx.doi.org/10.1016/j.envres.2016.11.024. Calabrese EJ. Obituary notice: LNT dead at 89 years, a life in the spotlight. Environmental Research Volume 155, May 2017, Pages 276–278.	Agreed and corrected with the paragraph; The linear no threshold (LNT) hypothesis extrapolation from evidence-supported, high-dose effects to low-dose responses claims that all acute ionizing radiation exposures down to zero are harmful. The harm is proportional to dose and is cumulative throughout life, regardless of how low the dose rate is. [27] This study is based on the traditional worldwide radiation protection standards for late (stochastic) effects which are based on the LNT hypothesis. [28]



SDI Review Form 1.6

Minor REVISION comments	Line 37-38 requires clarification: "radionuclide are carried to soil by and flows" ?? Line 41 change "may poses a lot of threat" to "may pose a threat" Line 46 list multiple references like this [5-10] Line 46 replace 'researches' with 'investigations' Line 47 add space between 'for different' Line 61 Add space after sentence "[11,12]. Benue..." Line 122 Add space after sentence Line 126 Add space after sentence Line 133 change 'provision' to 'provisions' Line 146 change 'Discussions' to 'Discussion' Line 152 remove second period Line 193 change 'outdoor' to 'outdoors' Line 224 add space between "sites may" Line 231 add space between '38% of' Line 233 add space between 'at the' Line 234 add space after sentence Line 235 add space between "of 0.024.."	All the comments have been corrected as cited by the reviewer
---------------------------------------	---	--



SDI Review Form 1.6

	Line 236 add space after sentence Line 241 add space after reference Line 242 list references [21,22] Line 242 Change sentence to this "Results obtained here are relatively lower than..." Line 243 add space after reference Line 244 add space after reference Line 244 change "over the years" to "over many years" Line 248 change "fieldsthese" to "fields; these" Line 257 Add space after sentence Line 264 add space "poonch district" Line 276 change "Figures 3" to "Figure 3" Line 280 add space between "to solid" Line 288 change "value" to "values"	All the comments have been corrected as cited by the reviewer
<u>Optional/General</u> comments		