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Natural Gamma Radiation in Rocks from Kerri-Kerri Formation, North Eastern Nigeria

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**HIGHLIGHTS**

- i. The mean activity concentrations of  $^{238}\text{U}$ ,  $^{232}\text{Th}$  and  $^{40}\text{K}$  in the present study area are 27.00 Bqkg<sup>-1</sup>, 61.91 Bqkg<sup>-1</sup> and 91.70 Bqkg<sup>-1</sup> respectively.
- ii. It was found that there was absence of significant radioactive accessory minerals in the rocks of the study area.
- iii. The mean absorbed dose rate in the study area was found to be lower than the world average value.
- iv. The mean radium equivalent index, internal and external hazard indices were all found to be within the acceptable permissible limits.
- v. The rocks in the southwest of the Kerri-Kerri Formation do not pose any danger due to natural gamma radiation.

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