

Title	Expression of Interest for Collaborative Study: Baseline study of Naturally Occurring Radioactive Material in the soil of five districts of Tamilnadu (Krishnagiri, Dharmapuri, Selam, Trichy and Karur)
Theme	Natural radioactivity is an important component of the environment and plays a significant role in assessing public radiation exposure. Monitoring the distribution of primordial radionuclides such as uranium-238 (U-238), thorium-232 (Th-232), and potassium-40 (K-40) provides essential baseline data for evaluating environmental radiation levels and identifying any changes resulting from anthropogenic activities. This project focuses on measuring the activity concentrations of these naturally occurring radionuclides in soil samples collected from five districts of Tamil Nadu. The study aims to assess the spatial distribution of natural radioactivity also.
Scope of the Study	Scope of the study includes the following compartments, • Collecting representative soil samples from five districts, Krishnagiri, Dharmapuri, Selam, Trichy and Karur of Tamilnadu • Soil sample processing, including oven drying, sieving, weighing, packing and sealing in polythene boxes • Measuring the naturally occurring radionuclides in soil using gamma spectrometry following the equilibrium period • Analysing the spatial distribution of the obtained radionuclides in the selected districts • GIS Mapping/Contouring of the radionuclides
Expected Expertise	Academic / Research Institutes collaborating with reputed institutions with expertise in the field of soil sample processing such as representative surface soil sample collection, oven drying, sieving and air tight packing of the samples for the radon to attain equilibrium with daughter products. Knowledge on Gamma spectrometry measurements of soil and GIS mapping of the results using softwares is also expected.
Last Date of Enquiry	22/09/2026
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