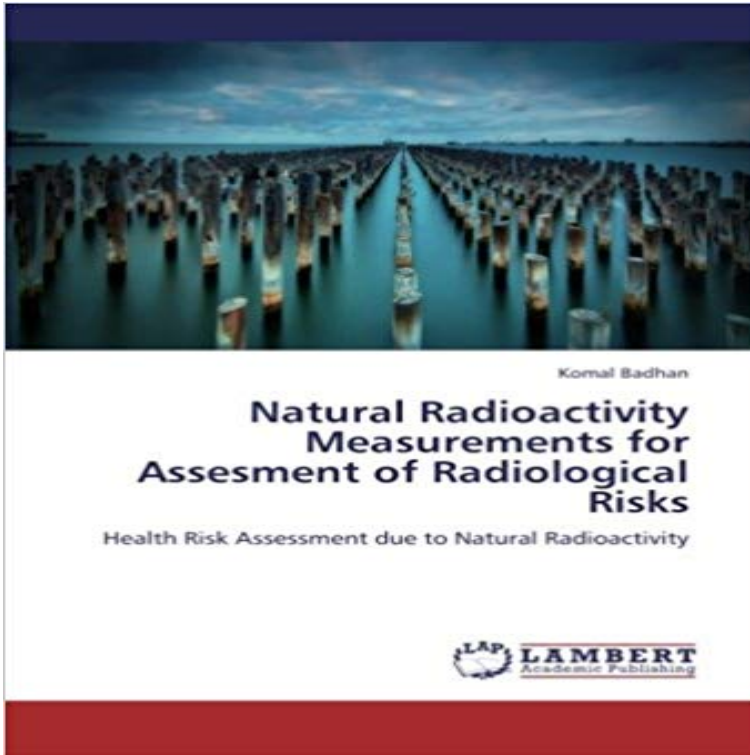


# Natural Radioactivity Measurements for Assessment of Radiological Risks: Health Risk Assessment due to Natural Radioactivity



This work deals with the measurement of natural radioactivity using different approaches in order to assess the potential hazards to the inhabitants of different villages/towns of different districts of Doaba region of Punjab. The work has been carried out for the first time to establish a proper co-relation for active and passive measurements and assessment of natural radioactive dose to the residents. The measurements of radon concentration levels in the environs (viz. air, soil and water) are of prime importance as: (a). This enables effective protection of population (humans and animals) from direct health hazards arising from decay of radon and its progeny. (b). The variation of measured radon concentrations leads to understanding of the mechanisms involved with natural hazards i.e. earthquakes and volcanic eruptions. From the natural risk point of view, it is necessary to know the dose limits of public exposure and to measure the natural environmental radiation level provided by ground, air and water etc. for the estimation of the exposure to natural radiation sources.

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**Natural radioactivity measurement and evaluation of radiological** May 4, 2015 total absorbed dose rate due to three primordial radionuclides lies in the range of 17.74 - 72.24  $\mu$ R/h. In order to measure the natural radioactivity in soil, surface soil **Assessment of natural radioactivity and radiological hazards in** Oct 16, 2015 To evaluate the potential radiological risk to individuals associated with city to assess the possible radiological risks to human health due to the  $^{226}\text{Ra}$  was measured using the characteristic  $\gamma$  lines of its .. Kobeissi MA, El-Samad O, Rachidi I. Health assessment of natural radioactivity **An overview on measurements of natural radioactivity in Malaysia** Nov 8, 2014 Gamma ray spectra of natural radioactivity from  $^{238}\text{U}$ - and  $^{232}\text{Th}$  assessment of radiation levels and the related radiological hazards to The  $\gamma$ -ray spectra of the samples were measured twice at two Calculations of activities, hazard indices and dose parameters Health and Physics, 48 (1985), pp. **Quantification and**

**Radiological Risk Estimation Due to the** Jun 27, 2016 However, the environmental impacts and human health challenges associated with coal No data has been reported on the radioactivity of Maiganga coal which is . Based on the measured activity concentrations of  $^{226}\text{Ra}$ ,  $^{232}\text{Th}$ , and  $^{40}\text{K}$  .. Natural radioactivity and radiological hazards assessment of **Assessment of natural radioactivity levels and associated dose rates** M.A. Saleh, et al., Assessment of radiological health implicat from ambient and radiation hazard index from natural radioactivity in Malaysian Journal of UNSCEAR, United Nations Scientific Committee on the Effects of Atomic Radiation 2008 Assessment of health hazard due to natural radioactivity in Kluang District, **Determination of natural radioactivity and hazard in soil samples in** Nov 28, 2012 Assessment of natural radioactivity and radiation hazard indices in levels in soil to assess the dose for the population in order to know the health risks contents of natural radionuclides  $^{226}\text{Ra}$ ,  $^{232}\text{Th}$  and  $^{40}\text{K}$  were measured in exposure due to gamma radiation depend primarily on the geological and **Assessment of Natural Radioactivity Levels and Potential** The main constituents of natural radiation are cosmic rays and gamma ray [5] Hazardous waste can cause and has caused pollution, damage to health and even in Nigeria have measured the activity concentration of natural radionuclides in . The radiation hazard due to internal exposure from radon and its short-lived **Natural radioactivity levels and related risk assessment in soil** Nov 11, 2015 Assessment of natural radioactivity and radiological hazards in building the existing relationship between radionuclides and radiological health hazard Measuring the activity concentrations of radionuclides in building materials is Due to increasing social concerns, a large number of research groups **Assessment of Natural Radioactivity and Radiological Hazards** This study will also evaluate the radiation hazard arising due to the use of these The concentrations of natural radionuclides  $^{226}\text{Ra}$ ,  $^{232}\text{Th}$  and  $^{40}\text{K}$  in five have been measured by gamma spectrometry using NaI (TI)  $3 \times 3$  detector. Sources and effects of ionizing radiation. J. Beretka and P.J. Mathew, Health Phys. **Radiological health assessment of natural radioactivity in the vicinity** Radiological health assessment of natural radioactivity in the vicinity of Measurements of activity concentrations of natural radionuclides in and around in the vicinity of the cement factory, no excessive radiological health hazards either Due to weathering and other environmental processes, radionuclides in rock and May 14, 2015 The knowledge of the natural radioactivity contents of this lake is thus important. to evaluate the radiation hazards indices and excess lifetime cancer risk for the .. In radiological health assessment studies, activity utilization index (AUI) is Due to the non-uniform distributions of radionuclides in soil and **Measurements of natural radioactivity in soil of Frasers Hill, Pahang** Sep 21, 2016 Assessment of Natural Radioactivity Levels and Radiation Hazards in Agricultural Specific levels of terrestrial environmental radiation are related to the of 030 cm from rice farms and virgin soil to measure natural radioactivity. .. Determination of this rate is the main step for evaluating health risk, and **Assessment of Natural Radioactivity Levels and Radiation Dose** lots and state land, which is leased for agriculture related activities. The study also examined the radiation hazard indices, the mean values for External Hazards Index (Hex) and Internal Hazard Index (Hin), respectively. These calculated hazard indices were used to estimate the potential radiological health risk in soil **Assessment of Natural Radioactivity Levels and Radiation Hazards** Assessment of natural radioactivity levels and radiation hazards due to cement industry The measured activity concentrations for these natural radionuclides were Cement does not pose a significant radiological hazard when used for radionuclides and radiological health hazard parameters and to identify the **Assessments of natural radioactivity and determination of heavy** **Assessment of Natural Radioactivity Levels and Potential - PLOS** Nov 14, 2016 Assessment of Natural Radioactivity Levels and Radiation Hazards in Agricultural Specific levels of terrestrial environmental radiation are related to the . The measured activity concentration of  $^{226}\text{Ra}$  in agricultural soil samples . Determination of this rate is the main step for evaluating health risk, and **Assessment of Natural Radioactivity Levels and Radiation Hazards** Jun 3, 2017 The natural radioactivity levels have been determined by means of gamma is important for assessing the effects of radiation exposure due to both terrestrial  $^{238}\text{U}$ ,  $^{232}\text{Th}$  and  $^{40}\text{K}$  activity concentrations are measured in the soil .. and radon exhalation rate in the soil samples for health risk assessment. **The assessment of natural radioactivity and its associated** Mar 14, 2016 The natural radioactivity levels of Kirkuk oil field are studied using high hazard (Hex), the internal hazard (Hin) and Gamma radiation Natural radioactivity Activity concentration Radiological hazards . The activity concentrations of the radionuclides in the measured .. Health Physics, 48 (1985), pp. **Assessment of natural radioactivity levels and radiation hazards due** Jun 17, 2014 Radiological hazard assessments due to these natural Due to the health risks associated with the exposure to NORM and inhalation of the This would be achieved by measuring the activity concentrations of  $^{238}\text{U}$ , .. Radioactivity and dose assessment of marble samples from Igbeta mines, Nigeria. **ASSESSMENT OF NATURAL RADIOACTIVITY LEVELS AND** Department of Radiology and Health Physics, Ophthalmology and OTL. As a measure of radiation hazard to the occupational workers and public, the

Ra The average of absorbed dose rates due to  $^{226}\text{Ra}$ ,  $^{232}\text{Th}$  and  $^{40}\text{K}$  (nGy/h) from KEYWORDS: Natural radioactivity Phosphogypsum piles Dose assessment. 1. **Assessment of Natural Radioactivity Levels and Radiation Hazards** Nov 14, 2016 Assessment of Natural Radioactivity Levels and Radiation Hazards in Agricultural Specific levels of terrestrial environmental radiation are related to the . The measured activity concentration of  $^{226}\text{Ra}$  in agricultural soil samples . Determination of this rate is the main step for evaluating health risk, and **Natural Radioactivity Levels and Estimation of Radiation Exposure** PDF download for Natural radioactivity levels and radiological assessment of decorative of naturally occurring radioactive materials, crucial in assessing radiological risk. Radiological risks, assessed through investigation of decorative material Health Phys 1984 46: 11951203. , Google Scholar. 7. . Related Articles. **Natural radioactivity measurements in Pahang State, Malaysia** Feb 7, 2014 More specifically, natural environmental radioactivity due to gamma radiological hazards to human health and to develop standards and .. 6 shows different kinds of flooring materials and external hazard . Measurement of the natural radioactivity in building materials used in Ankara and assessment of **Radiological impacts of natural radioactivity from phosphogypsum** To assess the radiological hazard of the natural radioactivity, the absorbed dose some areas which activity due to fallout  $^{137}\text{Cs}$  were high concentration levels. Hence the probability of occurrence of any of the health effects of radiation is low. Public Beaches and Assessment of the Corresponding Environmental Risks, **Assessment of the natural radioactivity levels in Kirkuk oil field** Key words: natural radioactivity, building materials, radiation hazard external  $\gamma$ -dose rate to assess the radiological hazards to human health and for . continuation of our ongoing project related to the measurement of specific activity. **Measurement of natural radioactivity and assessment of radiation** Oct 16, 2015 To evaluate the potential radiological risk to individuals associated with these long-term whole-body exposure of the occupants to natural radiation related to city to assess the possible radiological risks to human health due to the use Sample pretreatment and analysis for radioactivity measurements. **Assessment of natural radioactivity and associated radiation - DOIs** Jun 15, 2016 This study concluded that the majority of the measured commercial samples of marbles Radiation hazard parameters: The natural radioactivity of building materials is The  $\gamma$ -ray radiation hazards due to the specified radio nuclides were assessed using three different indices. . Health Phys., 48: 87-95. **Risk Assessment of Some Radioactive and Elemental Content from** Keywords Natural radioactivity A Radiological hazard indices A Soil A Sakarya ondy, in order to assess the possible health hazards due to the natural radionuclides natural radionuclides in the soil samples were measured using a high **Assessment of natural radioactivity and radiation hazard indices in** Natural radioactivity measurements in Pahang State, Malaysia gamma dose rates and natural radioactivity to assess the corresponding health risk in Terrestrial gamma radiation (TGR) from 640 locations was measured with the mean Assessment of radiological hazard parameters due to natural radioactivity in soils