

Tanzania Atomic Energy Commission (TAEC)

Southern Zone Office

Measurement of Environmental radiation and radioactivity in the Southern regions of Tanzania

The government of the United Republic of Tanzania, through the Tanzania Atomic Energy Commission, tends to monitor the ambient dose rate in the environment by measuring the gamma (γ) in the air. The government's goal in conducting this measurement is to determine the status of the environment in this nation and to guarantee that residents are protected from the impacts of excessive levels of radiation in the environment.

The measurement is done annually by the commission inspectors using various portable and calibrated radiation survey meters. The survey meter is typically set around 1 metre above ground level since the majority of an adult's internal organs are located at this height. In certain circumstances, the survey meter is installed about 50 centimetre above the ground in areas where children spend most of their time, such as schools and kindergartens.

In the current financial year 2022/2023, the Southern Zone office conducted the environment radiation assessment in various places at the Mtwara and Lindi regions as shown on the pictures below.



Picture 1: *The Ambient Radiation Measurement at the environment of Ligula Regional Referral Hospital – Mtwara*



Picture 2: *Ambient Radiation Measurement at the environment of Mashujaa Park – Mtwara*



Picture 3: *Ambient Radiation Measurement at the environment of Chuno Market – Mtwara*



Picture 4: *Ambient Radiation Measurement at the environment of Chuno Dispensary - Mtwara*

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