

Department of Physics

Field study summary report

Introduction: On 20th April 2022, Physics Honours students of 4th and 6th semester along with some teachers of Physics Department went for a field study to Nongbahjynrin and Mawthabah village (Uranium deposit site of Meghalaya) with the aim to measure the Gamma radiation level near the uranium deposit site. We arrived at the study site at around 11:30 A.M.

Objective: The aim of the field study was to provide practical demonstration in the selected field of Physics to get exposure to research work.

Study area: Nongbah jynrin and Mawthabah village. These villages are much close to the uranium deposit site found in Meghalaya.

Instrument used: Radiation Survey Meter manufactured by Nucleonix.

Field observation: Radiation Survey Meter manufactured by Nucleonix was used for the measurement of Gamma radiation level in the two selected study site and the surrounding area. In Nongbah Jynrin village the radiation count was found to be in the range of 20 to 40 Count Per Minute (CPM), in Mawtabah village- 20 to 40 CPM and in Nongtnger- 28 to 44 CPM. A more detailed report will be submitted by the students.

Conclusion: The gamma radiation level measured in the present study was found to be comparable with earlier report presented by researcher from other institution.