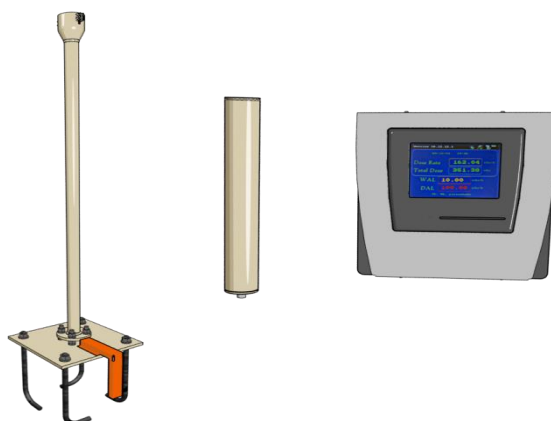


### Environmental Monitoring Systems

This system consists of three main components: a data logger, a dosimeter probe and a probe base. The data logger is an electronic instrument that records dosimeter probe information. The dosimeter information is transferred by cable to the data logger and sent to the control room.



**Case:** The system case is designed to receive data from the dosimeter (PROBE) and process and sent to the central server.

**Dosimetry (PROBE):** This part of the system receives environmental information.

**Base:** The base is designed for correct placement and proper height of dosimeter and also for facilitating the location and identification of environmental dosimeters.

#### Applications

- Diagnosis of accidents and spread of radioactive substances in laboratories and industries such as steel, mining and ...
- Research studies for gamma rays
- Application in the safety-health of laboratories and industries such as steel, mining and ...
- Application in precision instrumentation parts of laboratories and industries such as steel, mining, oil, gas, petrochemicals and ...

- Control of radioactive contamination of materials and input-output equipment in the mining and steel industries
- Nuclear power plant in the country
- Industrial centers, radiography and inspection
- Safety and radiation protection services for workers in various industries

### Specification

- The environmental dosimeter's results are available online on management portal
- Radiation measurement: Gamma and X photon
- Dose range for photons: 1 Gy to 10  $\mu$ Gy
- Measurement range of dose rate: 1 Sv/h - 100 nSv/h
- Energy range: 80 KeV-3 MeV
- Information storage volume: 6 months
- Preparation time: Less than 5 minutes
- Requirements: 220 V, 50 HZ and 5 A Power
- Operating temperature of case: - 40 to 0 °C
- Storage temperature: -10 to + 60 °C
- Operating temperature: - 20 °C to +50 °C
- Weight: 3.5 Kg