Environmental monitoring and Surveillance at BARC, Trombay facilities

Evaluation of impact and assessment of build-up of radionuclides in the environment due to operation of various facilities of BARC. Environmental matrices: Fresh water, soil, vegetation, marine matrices like Sea water, sediment, biota, air particulate and air moisture collected and analysed for radionuclide content.

Extensive On-site Surveillance:

- Area: 8.5 sq. km inside BARC
- Environmental matrices: Fresh water, soil, vegetation, Sea water from discharge location, air particulate and air moisture
- Radionuclides analysed: 90Sr, 137Cs and 3H

Facility Specific Radiological Surveillance

- **Facilities:** RSMS, Cirus-Dhruva, PP, WIP, ETP, former IRE site, New Apsara, P-4
    - Analysis of potable water for Tritium, gross-alpha and gross-beta activity
    - Analysis of Bore-well water & Soil for gross-alpha, gross-beta, ^{90}Sr, ^{137}Cs, Tritium, $U_{(Nat)}$ and $^{(239+240)}$ Pu activity