

Isotope Hydrology Section

BARC, Mumbai

Ongoing and Future Research Programmes

A) Groundwater salinisation and Pollution

- **Study of Groundwater salinisation in Purna river basin, Maharashtra**
- **Sea water intrusion and groundwater recharge in**
 - (i) Tiruvanmiyur aquifer, Chennai**
 - (ii) 24-Paraganas district, West Bengal**
 - (iii) Coastal Andhra Pradesh**
 - (iv) Kuttanad area, Kerala**
- **Investigations on Arsenic infested aquifers of West Bengal**
- **Study on impact of urbanisation on karstic aquifers around Raipur city, Madhya Pradesh**

B) Arid and Semi Arid Zone Hydrology

- **Origin and age of groundwater along paleochannels of Saraswati River**
- **Isotope based assessment of groundwater renewal and related anthropogenic effects in water scarce areas**
- **Isotope response to the dynamic changes in groundwater system due to long term exploitation**

- Paleowaters as drinking water reserves and paleoclimatic archive
- Groundwater recharge studies in semi arid region of Sidlagheta taluk, Kolar district, Karnataka
- Watershed management studies, Akola district, Maharashtra

C) Studies on Slow moving deep groundwater

- Study of slow moving deep groundwater in hard rock terrain in W. Rajasthan for characterisation of sites for nuclear waste repositories
- Groundwater recharge study in deep aquifers of the Ganga basin,

D) Lake dynamics

- Lake dynamics and sedimentation in Lake Naini, Nainital- Mansar Lake, Dal lake, J&K etc.-NIH, Roorkee