NATIONAL INSTITUTE OF HYDROLOGY MAJOR LABORATORY FACILITIES AT ROORKEE

HYDROLOGICAL INSTRUMENTATION

- Collection, transmission and processing of Hydrometeorological data.
- Design & development of Hydrometeorological instruments and data acquisition system.
- Flow/discharge measurement
- Infiltration rate measurement
- Measurement of water level in wells
- Water sampling from rivers, lakes etc.

NUCLEAR HYDROLOGY

- C¹⁴/H³ dating of ground water
- Discharge of rivers
- Ground water velocity measurements
- Leakage / seepage detection from dam / reservoir
- Environmental tritium enrichment
- Recharge to ground water
- Soil moisture measurement
- Stable isotopic measurements

REMOTE SENSING APPLICATIONS

- Visual and digital image processing
- Ground water zonation mapping
- Flood plain mapping
- Land use mapping
- Soil erosion and sedimentation studies
- Snow cover mapping
- Salinity and water logging mapping

SNOW AND GLACIER LABORATORY

- Streamflow measurement in high altitude regions
- Analysis of snow cover
- Degree-day factors for snow and ice melt
- Assessment of suspended sediment concentration
- Modelling of streamflow and snowfed rivers
- Hydrological investigations on glaciers

SOIL WATER

- Determination of Soil moisture characteristic Curves (0.1 to 15 bar)
- Determination of Soil suction (0 to 0.85 bar)
- In-situ soil moisture measurement
- Permeability measurement
- Particle size analysis of soil
- Infiltration rate measurement
- Soil density measurements

WATER QUALITY

- Analysis of organic carbon, inorganic carbon, total carbon
- Analysis of pesticides & organic compounds
- Bacteriological analysis
- Digestion of BOD & COD samples
- Field measurement of pH, conductivity, and anions
- Analysis of race elements.

FACILITIES AT REGIONAL CENTERS

- Hydrological modeling & analysis
- Digital image processing and GIS
- Groundwater exploration
- Hydrometeorology

- Remote sensing application
- Soil moisture measurements
- Soil sampling & analysis
- Water Quality

REGIONAL CENTRES OF NATIONAL INSTITUTE OF HYDROLOGY



For further information please contact:

Director

National Institute of Hydrology

Jal Vigyan Bhawan

Roorkee - 247 667 (Uttaranchal)

Phone: 91 - 1332 - 272106 Fax : 91 - 1332 - 272123 E.mail: kdsharma@nih.ernet.in

Web: www.nih.ernet.in

Hard Rock-Regional Centre

National Institute of Hydrology Plot No. 11, 1st Main, 2nd Cross Hanuman Nagar, Race Course Belgaum - 590 001 (Karnataka)

Phone: 0831 - 2447714

Fax : 0831 - 2447269

E Mail: pibbers@sanabarnet

E.Mail: nihhrrc@sancharnet.in

Centre for Flood Management Studies (Brahmaputra Basin)

National Institute of Hydrology Sapta Shahid Path, G. S. Road Mathura Nagar, Dispur

Guwahati - 781 006 (Assam) Phone : 0361 - 2331150 Fax : 0361 - 2228823

E.mail: nercnih@yahoo.com

Western Himalayan Regional Centre

National Institute of Hydrology Irrigation & Flood Control Complex Opp. Milatary Hospital, Satwari Jammu Cantt - 180 003 (J & K)

Phone: 0191 - 2432619 Fax: 0191 - 2450117

E.mail: whrcnih@sancharnet.in

Centre for Flood Management Studies (Ganga Basin)

National Institute of Hydrology WALMI Complex, Khagaul P.O. Phulwari Sharif

Patna - 801 505 (Bihar) Phone : 0612 - 2452219 Fax : 0612 - 2452227 E.mail: nihp@satyam.net.in

Deltaic Regional Centre

National Institute of Hydrology

Siddarth Nagar

Kakinada - 533 003 (Andhra Pradesh)

Phone: 0884 - 2372254 Fax: 0884 - 2350054 E.mail: nihr@ego.ap.nic.in

Ganga Plains South Regional Centre

National Institute of Hydrology

278, Manorma Colony

Sagar - 470 000 (Madhya Pradesh)

Phone: 07582 - 228021 Fax: 07582 - 221943