

## Functional Area :- GEOLOGY AND SOIL MEASUREMENT AND ANALYSIS

Name of Institute	No. of experts and no. of support staff available, if any	Facilities available at the Institute with name of available instruments	Capacity building required for strengthening		Remarks
			Man-power training	Equipment (name of equipment, its cost estimates and use)	
Indian Institute of Technology Roorkee, Roorkee (Deptt. Of Earth Sciences, Deptt. Of Earthquake Engg., Deptt. Of Hydrology)	Available	Fully equipped	NIL	NIL	NIL
NIH, Roorkee	Available	Fully equipped	NIL	NIL	NIL
Irrigation Research Institute, Roorkee	NIL	a) Sieve analysis of soil & consolidation tests for e-log p curve b) Properties of soil such as cohesion value, angle of internal friction, field and lab testing of soil for density, Atterberg's limits shrinkage limits, standard penetration test, dynamic cone penetration test, permeability test, analysis of data for evaluation of bearing capacity of soil.	NIL	NIL	NIL
National Research Centre on Coldwater Fisheries, Bhimtal	NIL	NIL	NIL	NIL	NIL
Pollution Control Research Institute(PCRI), BHEL, Ranipur -Haridwar	2	Fully equipped	Trained manpower available	NIL	NIL
Hydro Group, Reliance Energy Ltd., H-146/147, Sector-63, Noida	Experts – 04, Sup. Staffs – 02	Geological/Geotechnical Mapping and Assessment	NIL	Softwares for Assessment/Analysis	NIL
People's Science Institute (PSI), 252 Vasant Vihar-1, Dehradun	Expert – 01, Sup. Staff - 02	Survey instruments(Auto level, Theodolite, Abney level, Altimeter etc.), pH meter, Oven, Dig. Weighing machine, Equipped lab for nutrient analysis of soil	NIL	Tensiometer for soil moisture (Rs. 6,000), Core sampler for soil density (Rs. 3,000), Permeameter for permeability (Rs. 42,000), Infiltrometer for infiltration (Rs. 5,000), Soil texture analyzer for soil texture analysis (Rs. 20,000), Plasticity / liquidity meter (Rs. 9,000), Soil strength analyzer (Rs. 66,000), Micro-Kjehldahl assembly for organic nitrogen (Rs. 10,000)	
GB Pant Institute of Himalayan Environment & Development, Kosi-Katarmal Almora	04	State of art laboratory	NIL	Not Applicable	NIL

Deptt. Of Environmental Sciences, HNB Garhwal Uni., Srinagar	Expert – 01, Sup. Staff – 01	Basic equipments available	NIL	NIL	NIL
Govt. Polytechnic, Nainital	NIL	NIL	NIL	NIL	NIL
College of Agribusiness Management, GBPUAT, Pantnagar	NIL	NIL	NIL	NIL	NIL
Amrapali Institute, Haldwani	NIL	NIL	NIL	NIL	NIL
Govt. Girls Polytechnic, Almora	NIL	NIL	Not Applicable	Not Applicable	NIL
Defence R&D Organisation, Instruments R&D Establishment, Ministry of Defence, Dehradun	NIL	NIL	NIL	NIL	NIL
S. Bhagwan Singh Post Graduate Institute of Biomedical Sciences & Research, Balawala, Dehradun	NIL	NIL	NIL	NIL	NIL
Vivekanand Parvatiya Krishi Anusandhan Sansthan, Almora	NIL	NIL	NIL	NIL	NIL
University of Petroleum and Engineering Studies, Dehradun	NIL	NIL	NIL	NIL	NIL
Central Building Research Institute, Roorkee	NIL	NIL	NIL	NIL	NIL