



**G.B. Pant Institute of Himalayan Environment and Development  
Kosi-Katarmal, Almora-263 643, Uttarakhand**

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**Central Laboratory Services of GBPIHED**

Institute has the facilities of physico-chemical, heavy metal analysis of drinking water, waste water, soil and plants along with quantification of volatile compounds of soil and plant samples etc. The facility is equipped with following Instruments:

1. Gas Chromatograph with flame ionization detector, electron capture detector and thermal conductivity detector (Make: Chemito 800 plus)
2. Graphite furnace- Atomic Absorption Spectrometer (Make: Varian)
3. Carbon, hydrogen, nitrogen and sulphur (CHNS) Analyzer (Make: Elementar)

➤ **Details of Analysis facility available**

**a) Water analysis**

- Heavy metals (Iron, copper, chromium, cadmium, nickel, arsenic, manganese, lead, zinc)
- Pesticides (only digested and cleaned samples will be accepted along with required standards)

**b) Plant analysis**

- Volatile secondary metabolite Pesticides (only digested and cleaned samples will be accepted along with standards)
- Macro and micronutrients and other heavy metal ions (eg. Iron, copper, chromium, cadmium, nickel, arsenic, manganese, lead, zinc)

**c) Soil analysis**

- Heavy Metals (Iron, copper, chromium, cadmium, nickel, arsenic, manganese, lead, zinc)
- Pesticides (only digested and cleaned samples will be accepted along with required standards)
- Carbon/Hydrogen/Nitrogen/Sulphur

## Instruments at Central Lab



Gas Chromatograph



Atomic Absorption Spectrometer



CHNS Analyzer



Wet Lab

### **Contact Person:**

**Er. Kireet Kumar, Scientist G**

**Phone: +91-5962-241041**

**E- mail: [centrallab@gbpihed.nic.in](mailto:centrallab@gbpihed.nic.in)**