

# INSTRUMENTATION LABORATORY

## A. Analytical Instruments

S.No.	Name of Instruments	Matrix of sample	Parameters being analysed
01.	Inductively Coupled Plasma- Atomic Emission Spectroscopy (ICP-AES)	Solid (sludge/sediment), TCLP Extract,	Aluminium Arsenic Cadmium Chromium Copper Iron Lead Mercury Nickel Zinc
		Water & Wastewater	Arsenic Cadmium Chromium Copper Iron Lead Mercury Manganese Nickel Zinc Antimony Cobalt Selenium Vanadium

02.	Atomic Absorption Spectrometer	Solid (sludge/sediment), TCLP Extract, Water, wastewater, PM in ambient air collected in GFA	Arsenic Mercury Cadmium Chromium Copper Iron Lead Manganese Nickel Zinc
03.	Mercury Analyzer	Solid (sludge/sediment), TCLP Extract, Water, Wastewater, PM in ambient air collected in GFA	Mercury
04.	TOC Analyzer	Solid (sludge/sediment), Water & Wastewater,	TOC
06.	EDXRF	PM2.5(<2.5µm) collected in air filters (Teflon)	Silicon, Phosphorous, Sulphur, Chlorine, Potassium, Calcium, Scandium, Titanium, Vanadium, Chromium, Manganese, Iron, Cobalt, Nickel, Copper, Zinc, Gallium, Germanium, Arsenic, Selenium, Bromine, Rubidium, Strontium, Yttrium, Molybdenum, Rhodium, Palladium, Silver, Cadmium, Indium, Tin, Antimony, Tellurium, Iodine, Caesium, Barium, Lanthanum, Tungsten, Gold, Thallium, Lead
		Soil and sediment	Magnesium, Silicon, Potassium, Calcium, Titanium, Vanadium, Chromium, Manganese, Iron, Cobalt, Nickel, Copper, Zinc, Arsenic, Rubidium, Strontium, Zirconium, Silver, Cadmium, Indium, Antimony, Cesium, Barium, Lanthanum, Cerium, Neodymium, Samarium, Europium, Terbium, Dysprosium, Ytterbium, Lutetium, Hafnium, Tantalum, Tungsten, Mercury, Thallium, Lead, Thorium, Uranium