

SCOPE OF LABORATORY

Sl.No	Instrument	Matrix of sample	Parameters being analysed and also covered under NABL scope
1	Inductively coupled plasma-Atomic emission spectroscopy (ICP-AES)	Solid(sludge/sediment) Water & Wastewater TCLP and STLC Extract	Arsenic Cadmium Chromium Copper Iron Lead Manganese Nickel Zinc Antimony Cobalt Selenium Vanadium
2	Inductively coupled plasma-Mass spectroscopy (ICP-MS)	Water, Wastewater, Soil & Sediments	Arsenic Cadmium Chromium Copper Iron Lead Manganese Nickel Zinc Antimony Cobalt Selenium Vanadium Mercury

3	Atomic Absorption Spectrometer (AAS)	Solid (sludge/sediment), TCLP Extract, Water, wastewater, PM in ambient air collected in GFA	Arsenic Mercury Cadmium Chromium Copper Iron Lead Manganese Nickel Zinc Mercury
4	Mercury Analyzer	Solid (sludge/sediment), TCLP Extract, Water, Wastewater, PM in ambient air collected in GFA	Mercury
5	Total Organic Carbon analyzer (TOC)	Solid (sludge/sediment), Water & Wastewater	TOC
Parameters other than NABL Scope			
6	EDXRF	PM2.5(<2.5 micron) collected in Teflon filter papers	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, Barium, Lanthanum, Tungsten, Gold, 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, Barium, Lanthanum, Cerium, Neodymium, Samarium, Europium, Terbium, Dysprosium, Ytterbium, Lutetium, Hafnium, Tantalum, Tungsten, Mercury, Thallium, Lead
7	Total Organic Halides analyzer (TOX)	Water and Wastewater	TOX