## NABL ACCREDITATION SCOPE PARAMETERS OF WATER LABORATORY

	Products/	Specific Tests	Test Method / Standard against which tests	Range of
S.	Material	Performed	are performed	Testing/ Limit of
No.	of test			Detection
1.	Surface	Conductivity	APHA 2510 – B, 2-54 to 2-55. 22 <sup>nd</sup> Ed.	1-30000
	Waters &	<del></del>	2012	µmhos/cm
	ground Water	Total Dissolved Solids	APHA 2540 C, 2-65, 22 <sup>nd</sup> Ed. 2012	5 -18000 mg/L
		Chemical Oxygen Demand	APHA 5220 B, 5-17 to 5-18, 22 <sup>nd</sup> Ed. 2012	5-200 mg/L
		Bio – chemical	APHA 5210 B, 5-5 to 5-10, 22 <sup>nd</sup> Ed. 2012,	1-100 mg/L
		Oxygen Demand	4500 OC, 4-139 to 4-140,22 <sup>nd</sup> Ed.2012.(5 days at 20 <sup>o</sup> C).	
			IS-3025 part 44:1993, BOD ( 3 Days at 25°C).	
		Chloride	APHA 4500 – CI B , 4-72 to 4-73, 22 <sup>nd</sup> Ed.2012.	5 - 600 mg/l
		Phosphate – P	APHA 4500 – PD , 4-154 to 4-155,22 <sup>nd</sup> Ed.2012.	0.05 -10 mg/l
		Total Hardness	APHA 2340 – C, 2-44 to 2-47, 22 <sup>nd</sup> Ed.2012.	10 - 900 mg/l ( As CaCO <sub>3</sub> )
		Calcium	APHA 3500 – Ca B , 3-67 to 3-68. 22 <sup>nd</sup> Ed.	2 - 200 mg/l
		Magnesium	APHA 3500 – Mg B , 3-84, 22 <sup>nd</sup> Ed.2012.	2 -200 mg/l
		Fluoride	APHA 4500 – F D, 4-87 to 4-88, 22 <sup>nd</sup> Ed. 2012. (SPADNS Method)	0.02 to 10 mg/L
		рН	APHA 4500 H <sup>+</sup> - B, 4-92 to 4-96, 22 <sup>nd</sup> Ed. 2012	2 - 14
		NO <sub>2</sub> -N	APHA 4500 - NO <sub>2</sub> , B ,4-120 to 4-121, 22 <sup>nd</sup> Ed. 2012	0.01- 2 mg/l
		NH <sub>3</sub> -N	IS :3025(Part-34)-1988,(First reprint April-1992)	0.2-20 mg/l
S.N o.	Products/ Material of test	Specific Tests Performed	Test Method / Standard against which tests are performed	Range of Testing/ Limit of Detection
2.	Waste Water	Conductivity	APHA 2510 – B, 2-54 to 2-55. 22 <sup>nd</sup> Ed. 2012	1-40,000 µmhos/cm
		Suspended solids	APHA 2540 D, 2-66 to 2-67, 22 <sup>nd</sup> Ed. 2012	10 – 5,000 mg/l
		Total Solids	APHA 2540 B, 2-64, 22 <sup>nd</sup> Ed. 2012	10 – 20,000 mg/l
		Total Dissolved Solids	APHA 2540 C, 2-65, 22 <sup>nd</sup> Ed. 2012	10 -15,000 mg/l
		Chemical Oxygen Demand	APHA 5220 B, 5-17 to 5-18, 22 <sup>nd</sup> Ed. 2012	10 – 90,000 mg/l
		Bio – chemical Oxygen Demand	APHA 5210 B, 5-5 to 5-10, 22 <sup>nd</sup> Ed. 2012, 4500 OC, 4-139 to 4-140,22 <sup>nd</sup> Ed.2012.(5 days at 20 <sup>o</sup> C).  IS-3025 part 44:1993, BOD ( 3 Days at 25 <sup>o</sup> C).	5 – 60,000 mg/l
		Oil & Grease	APHA 5520 B, 5-40,22 <sup>nd</sup> Ed.2012	5 -200 mg/l
		Phosphate - P	APHA 4500 – PD , 4-154 to 4-155,22 <sup>nd</sup> Ed.2012.	0.05 – 10 mg/l
		Chloride	APHA 4500 – CI B , 4-72 to 4-73, 22 <sup>nd</sup> Ed.2012.	5 - 2000 mg/l
		pH	APHA 4500 H <sup>+</sup> - B, 4-92 to 4-96, 22 <sup>nd</sup> Ed. 2012	2 - 14

		NH <sub>3</sub> -N	APHA 4500 NH <sub>3</sub> – B&C, 4-110 to 4-112, 22 <sup>nd</sup> Ed. 2012	1-100 mg/l
		Cr <sup>+6</sup>	APHA 3500 Cr- B,3-69 to 3-70, 22 <sup>nd</sup> Ed. 2012	0.1- 10 mg/l
S.N o.	Products/ Material of test	Specific Tests Performed	Test Method / Standard against which tests are performed	Range of Testing/ Limit of Detection
3.	Soil &	рH	IS: 2720 (Part 26) – 1987, reaff. 2007	2-14
	Solid Waste	Conductivity	IS: 14767 - 2002.	1- 40,000 µmhos/cm
		Moisture	IS:2720 (Part II) - 1973 (Reaffirmed 2007	0.1-50 %
		Organic Matter	IS: 2720 (Part 22) – 1972,Reaff 2006	0.5 – 20 %
		Sodium	SOP No. CB/CL/SOP/S-5 based on	10-1000 mg/kg
		Exchangeable)	Soil Chemical Analysis by M.L. Jackson ,1967	
		Potassium( Exchangeable)	SOP No. CB/CL/SOP/S-6 based on Soil Chemical Analysis by M.L. Jackson ,1967	10-1000 mg/kg
		Calcium (Exchangeable)	SOP No CB/SOIL/SOP/07 based on Soil Chemical Analysis by M.L. Jackson ,1967	5 -10,000 mg/kg
		Magnesium ( Exchangeable)	SOP No. CB/CL/SOP/S-8 based on Soil Chemical Analysis by M.L. Jackson ,1967.	5 -5000 mg/kg
		Cation Exchange Capacity (CEC)	SOP No. CB/CL/SOP/S-9 by Calculation only	1-30
		Exchangeable SodiumPercent( ESP)	SOP No. CB/CL/SOP/S-10 by Calculation only	1 - 30 %