

Laboratory **Prakriti Consultants Services, 12, Vishnupuri, Church Road, Aliganj, Lucknow, Uttar Pradesh**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-8241**

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Validity **01.01.2019 to 31.12.2020**

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CHEMICAL TESTING

I. ATMOSPHERIC POLLUTION				
1.	Ambient Air	Particulate Matter (PM ₁₀)	IS 5182 (Part 23)	5 µg/m ³ to 1000 µg/m ³
		Sulphur Dioxide (SO ₂)	IS 5182 (Part 2)	4 µg/m ³ to 1050 µg/m ³
		Oxides of Nitrogen(NO _x)	IS 5182 (Part 6)	6 µg/m ³ to 750 µg/m ³
2.	Stack Emission	Particulate Matter (PM)	IS 11255 (Part 1)	10.0 mg/Nm ³ to 1000.0 mg/Nm ³
		Sulphur Dioxide (SO ₂)	IS 11255 (Part 2)	3.0 mg/Nm ³ to 1000.0 mg/Nm ³
		Carbon Mono Oxide (CO)	PCS-SOP-FGA-01 01/01/2018	1.14 mg/Nm ³ to 4560 mg/Nm ³
		Oxygen (O ₂)		0.1 % to 25 %
		Carbon Dioxide (CO ₂)		0.1 % to 99.9 %
3.	Ambient Noise	Temperature	IS 11255 (Part 3)	0 °C to 600 °C
		Noise Level	IS 9989	30 dB(A) to 130 dB(A)
II. POLLUTION & ENVIRONMENT				
1.	Waste Water / Effluent Water	pH	APHA 4500-H ⁺ -B 23 rd Edition	2 to 10
		Total Solids	APHA 2540-B, 23 rd Edition	10 mg/L to 20000 mg/L
		Total dissolved Solids	APHA 2540-C, 23 rd Edition	10 mg/L to 15000 mg/L
		Total Suspended Solids	APHA 2540-D, 23 rd Edition	10 mg/L to 5000 mg/L
		Dissolved Oxygen	APHA 4500-O-C, 23 rd Edition	1 mg/L to 12 mg/L
		Biochemical Oxygen Demand (BOD)	APHA 5210-B, 23 rd Edition	5 mg/L to 60000 mg/L
		Chemical Oxygen Demand (COD)	APHA 5220-C, 23 rd Edition	10 mg/L to 10000 mg/L
		Oil & Grease	APHA 5520-B, 23 rd Edition	2 mg/L to 100 mg/L
	Residual Chlorine	APHA 4500-Cl-B	0.1 mg/L to 5 mg/L	

Naveen Jangra
Convenor

Anuja Anand
Program Manager

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			23 rd Edition	
		Temperature	APHA 2550 B, 23 rd Edition	1.0 °C to 100.0 °C
		Ammonical Nitrogen	APHA 4500-NH3-C 23 rd Edition	1 mg/L to 100 mg/L
		Total Kjeldahl Nitrogen	APHA 4500-Norg-B 23 rd Edition	1 mg/L to 100 mg/L
		Fluoride	APHA 4500-F-D 23 rd Edition	0.1 mg/L to 100 mg/L
		Hexavalent Chromium	APHA 3111-B, 23 rd Edition	0.1 mg/L to 10 mg/L
		Iron (Fe)	APHA 3111-B, 23 rd Edition	0.3 mg/L to 10.0 mg/L
		Lead (Pb)	APHA 3111-B, 23 rd Edition	0.01 mg/L to 5.0 mg/L
		Nickel (Ni)	APHA 3111-B, 23 rd Edition	0.02 mg/L to 5.0 mg/L
		Copper (Cu)	APHA 3111-B, 23 rd Edition	0.05 mg/L to 5.0 mg/L
		Cadmium (Cd)	APHA 3111-B, 23 rd Edition	0.05 mg/L to 1.0 mg/L
		Total Chromium (Cr)	APHA 3111-B, 23 rd Edition	0.05 mg/L to 1.0 mg/L
		Zinc (Zn)	APHA 3111-B, 23 rd Edition	0.01 mg/L to 5.0 mg/L
		Arsenic (As)	APHA 3111-B, 23 rd Edition	0.01 mg/L to 1.0 mg/L
2.	Soil / Sediments	pH	IS 2720 (Part 26)	2 to 10
		Electrical Conductivity / Specific Conductance	IS 14767	200 µmho/cm to 1000 mmho/cm
		Texture	PCS/SOP/Soil/03 Dated 01-01-2018	Qualitative
		Available Nitrogen	IS 14684	0 to 25 mg/kg
		Available Phosphorous	ISO 11263	10 mg/kg to 30 mg/kg
		Potassium	IS 9497	10 mg/kg to 1000 mg/kg
		Sodium	IS 9497	10 mg/kg to 1000 mg/kg
		Organic Carbon	IS 2720 (Part 22)	0.5 % to 0.75 %
III.	WATER			
1.	Surface Water	pH	APHA 4500-H ⁺ -B 23 rd Edition	2 to 10

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		Total Dissolved Solids	APHA 2540 C, 23 rd Edition	10 mg/L to 15000 mg/L
		Total Hardness	APHA 2340 C, 23 rd Edition	2 mg/L to 900 mg/L
		Electrical Conductivity / Specific Conductance	APHA 2510 B, 23 rd Edition	200 µmho/cm to 1000 mmho/cm
		Calcium	APHA 3500 Ca-B 23 rd Edition	2 mg/L to 200 mg/L
		Total Alkalinity	APHA 2320 B, 23 rd Edition	2 mg/L to 1000 mg/L
		Chloride	APHA 4500-Cl- B 23 rd Edition	5 mg/L to 1000 mg/L
		Sulphate	APHA 4500-SO42- E 23 rd Edition	10 mg/L to 600 mg/L
		Sodium	APHA 3500-Na-B 23 rd Edition	10 mg/L to 200 mg/L
		Potassium	APHA 3500-K-B 23 rd Edition	10 mg/L to 200 mg/L
		Boron	APHA 4500-B, 23 rd Edition	0.1 mg/L to 10 mg/L
		Residual Chlorine	APHA 4500-Cl-B 23 rd Edition	0.1 mg/L to 5 mg/L
		Fluoride	APHA 4500-F-D 23 rd Edition	0.1 mg/L to 100 mg/L
		Nitrate	APHA 4500-NO3-B 23 rd Edition	0.1 mg/L to 100 mg/L
		Magnesium	APHA 3500-Mg-B 23 rd Edition	2 mg/L to 200 mg/L
		Iron (Fe)	APHA 3111-B, 23 rd Edition	0.3 mg/L to 10.0 mg/L
		Lead (Pb)	APHA 3111-B, 23 rd Edition	0.01 mg/L to 5.0 mg/L
		Nickel (Ni)	APHA 3111-B, 23 rd Edition	0.02 mg/L to 5.0 mg/L
		Copper (Cu)	APHA 3111-B, 23 rd Edition	0.05 mg/L to 5.0 mg/L
		Cadmium (Cd)	APHA 3111-B, 23 rd Edition	0.05 mg/L to 1.0 mg/L
		Total Chromium (Cr)	APHA 3111-B, 23 rd Edition	0.05 mg/L to 1.0 mg/L
		Zinc (Zn)	APHA 3111-B, 23 rd Edition	0.01 mg/L to 5.0 mg/L
		Arsenic (As)	APHA 3111-B, 23 rd Edition	0.01 mg/L to 1.0 mg/L

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Anuja Anand
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2.	Drinking Water	pH	APHA 4500-H ⁺ -B 23 rd Edition	2 to 10
		Total Dissolved Solids	APHA 2540 C, 23 rd Edition	10 mg/L to 15000 mg/L
		Total Hardness	APHA 2340 C, 23 rd Edition	2 to 900 mg/L
		Electrical Conductivity/ Specific Conductance	APHA 2510 B, 23 rd Edition	200 µmho/cm to 1000 mmho/cm
		Calcium	APHA 3500 Ca-B, 23 rd Edition	2 mg/L to 200 mg/L
		Total Alkalinity	APHA 2320 B, 23 rd Edition	2 mg/L to 1000 mg/L
		Chloride	APHA 4500-Cl-B 23 rd Edition	5 mg/L to 1000 mg/L
		Sulphate	APHA 4500-SO42-E 23 rd Edition	10 mg/L to 600 mg/L
		Sodium	APHA 3500-Na-B 23 rd Edition	10 mg/L to 200 mg/L
		Potassium	APHA 3500-K-B 23 rd Edition	10 mg/L to 200 mg/L
		Boron	APHA 4500-B, 23 rd Edition	0.1 mg/L to 10 mg/L
		Residual Chlorine	APHA 4500-Cl-B 23 rd Edition	0.1 mg/L to 5 mg/L
		Fluoride	APHA 4500-F-D 23 rd Edition	0.1 mg/L to 100 mg/L
		Nitrate	APHA 4500-NO3-B 23 rd Edition	0.1 mg/L to 100 mg/L
		Magnesium	APHA 3500-Mg-B 23 rd Edition	2 mg/L to 200 mg/L
		Iron (Fe)	APHA 3111-B, 23 rd Edition	0.3 mg/L to 10.0 mg/L
		Lead (Pb)	APHA 3111-B, 23 rd Edition	0.01 mg/L to 5.0 mg/L
		Nickel (Ni)	APHA 3111-B, 23 rd Edition	0.02 mg/L to 5.0 mg/L
		Copper (Cu)	APHA 3111-B, 23 rd Edition	0.05 mg/L to 5.0 mg/L
		Cadmium (Cd)	APHA 3111-B, 23 rd Edition	0.008 mg/L to 1.0 mg/L
		Total Chromium (Cr)	APHA 3111-B, 23 rd Edition	0.05 mg/L to 1.0 mg/L

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		Zinc (Zn)	APHA 3111-B, 23 rd Edition	0.01 mg/L to 5.0 mg/L
		Arsenic (As)	APHA 3111-B, 23 rd Edition	0.01 mg/L to 1.0 mg/L

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