

Laboratory Advanced Environmental Testing and Research Lab Pvt. Ltd., 63/1,
Kailash Vihar, City Centre Phase II, Gwalior, Madhya Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7405 **Page 1 of 3**

Validity 09.06.2018 to 08.06.2020 **Last Amended on --**

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. WATER				
1.	Ground Water, Surface Water, Potable Water	Colour	IS 3025 (Part-4) 1983 (RA 2003)	1.0 to 500 Hazen Unit
		pH	IS 3025 Part-11) 1983 (RA 2002)	0.4 to 13.60
		Turbidity	IS 3025 (Part-10) 1984 (RA 2006)	2.0 NTU to 40 NTU
		Conductivity	IS 3025 (Part-14) 1984 (RA 2002)	2.0 μ S/cm to 20000 μ S/cm
		Total Dissolved Solids (TDS)	IS 3025 (Part-16) 1984 (RA 2006)	10 mg/L to 5000 mg/L
		Acidity as CaCO ₃	IS 3025 (Part-22) 1986 (RA 2003)	2.0 mg/L to 150 mg/L
		Alkalinity as HCO ₃ ⁻	IS 3025 (Part-23) 1986 (RA 2003)	2.0 mg/L to 500 mg/L
		Ammonical Nitrogen	IS 3025 (Part-34) 1988 (RA 2003)	0.04 mg/L to 25 mg/L
		Chloride as Cl ⁻	IS 3025 (Part-32) 1988 (RA 2003)	2.0 mg/L to 4000 mg/L
		Total Hardness as CaCO ₃	IS 3025 (Part-21) 1983 (RA 2009)	2.0 mg/L to 600 mg/L
		Total Kjeldahl nitrogen (TKN)	IS 3025 (Part-34) 1988 (RA 2003)	1.0 mg/L to 50 mg/L
Nitrate nitrogen as NO ₃	IS 3025 (Part-21) 1983 (RA 2009)	0.3 mg/L to 50 mg/L		

Bhumi Rajyaguru
Convenor

Alok Jain
Program Manager

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		Phosphate as PO ₄	IS 3025 (Part-31) 1988 (RA 2003)	0.1 mg/L to 5 mg/L
		Sulphate as SO ₄	IS 3025 (Part-24) 1986 (RA 2003)	2.0 mg/L to 400 mg/L
		Calcium as Ca ²⁺	IS 3025 (Part-40) 1991 (RA 2003)	2.0 mg/L to 250 mg/L
		Magnesium as Mg ²⁺	IS 3025 (Part-46) 1994 (RA 2009)	2.0 mg/L to 200 mg/L
		Potassium as K	IS 3025 (Part-45) 1993 (RA 2003)	0.2 mg/L to 100 mg/L
		Sodium as Na	IS 3025 (Part-45) 1993 (RA 2003)	0.2 mg/L to 100 mg/L
2.	Waste water (Effluent)	pH	4500-H ⁺ B, 4-91 to 4-96, APHA 22 nd Edition, 2012	0.2 to 13.6
		Total Solids (TS)	2540 B, 2-64, APHA 22 nd Edition, 2012	10 mg/L to 2000 mg/L
		Total Dissolved Solids (TDS)	2540 C, 2-65, APHA 22 nd Edition, 2012	10 mg/L to 2000 mg/L
		Total Suspended Solids (TSS)	2540 D, 2-66 to 2-67, APHA 22 nd Edition, 2012	10 mg/L to 1000 mg/L
		Biochemical Oxygen Demand (BOD), 3 days at 27°C	5210 B, 5-5 to 5-16, APHA 22 nd Edition, 2012	4 mg/L to 2000 mg/L
		Chemical Oxygen Demand (COD)	5220 B, 5-17 to 5-18, APHA 22 nd Edition, 2012	4 mg/L to 20000 mg/L
		Oil & Grease	5520 B, 5-40 to 5-41, APHA 22 nd Edition, 2012	2.5 mg/L to 250 mg/L
		Dissolved Oxygen (DO)	4500-O C, 4-139 to 4-140, APHA 22 nd Edition, 2012	0.2 mg/L to 10 mg/L
II.	ATMOSPHERIC POLLUTION			

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1.	Air Gases & Atmosphere (Ambient Air)	RSPM (PM ₁₀)	IS 5182 (Part-23) 2006	5.0 µg/m ³ to 1000 µg/m ³
		PM _{2.5}	AETRL/STP/AIR/09 As per CPCB Guideline	5.0 µg/m ³ to 1000 µg/m ³
		Sulphur Dioxide (SO ₂)	IS 5182 (Part-2) 2001 (RA 2006)	4.0 µg/m ³ to 1050 µg/m ³
2.	Source/Stack Emission	Nitrogen Dioxide (NO ₂)	IS 5182 (Part-6) 2006	6.0 µg/m ³ to 750 µg/m ³
		TPM	IS 11255 (Part-1) 1985 (RA 2009)	1.0 mg/Nm ³ to 5000mg/Nm ³
		Sulphur Dioxide (SO ₂)	IS 11255 (Part-2) 1985 (RA 2003)	4 mg/Nm ³ to 1000 mg/Nm ³
3.	Noise	Ambient Air Noise	IS 9876-1981 (RA 1997) and Manufacture's Manual	30 to 130 Leq dB(A)