

Laboratory	Environmental Testing Laboratory, Comet Consultancy Services, 18, Block-B, Amrapali Complex, Bopal-Ambli Cross Road, Ahmedabad, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	19.05.2014
Certificate Number	T-2958	Valid Until	18.05.2016
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S.No.	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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I. AIR, GASES & ATMOSPHERE

1. Ambient Air Quality	Sulphur Dioxide (SO ₂)	IS 5182 (Part-2): 2001	4 to 120 µg/m ³
	Oxide of Nitrogen (NO _x)	IS 5182 (Part-6): 2006	6 to 120 µg/m ³
	Particulate matters-10 (PM-10)	IS 5182 (Part-23): 2006	10 to 1000 µg/m ³
2. Stack Emission (Source Emission)	Sulfur Dioxide (SO ₂)	IS 11255 (Part-2): 1985 (Reaffirmed 2003)	10 to 500 mg/Nm ³
	Oxide of Nitrogen (NO _x)	IS 11255 (Part-7): 2005	10 to 500 mg/Nm ³
	Particulate matters (PM)	IS 11255 (Part-1): 1985 (Reaffirmed 2009)	5 to 500 mg/Nm ³

II. POLLUTION & ENVIRONMENT

1. Waste Water / Sewage Water / Effluent Water	Total Alkalinity	APHA 22 nd Edition 2320 B	10 to 2500 mg/l
	Total Hardness	APHA 22 nd Edition 2340 C	10 to 10,000 mg/l
	Calcium	APHA 22 nd Edition 3500 Ca B	1 to 1000 mg/l
	Magnesium	APHA 22 nd Edition 3500 Mg B	2 to 1000 mg/l
	Chloride	APHA 22 nd Edition 4500 Cl-B	5 to 5000 mg/l
	Chemical Oxygen Demand (COD)	APHA 22 nd Edition 5220 B	4 to 50,000 mg/l

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	Waste Water / Sewage Water / Effluent Water	Biochemical Oxygen Demand (BOD) @ 27 °C for 3 Days	APHA 22 nd Edition 5210 B	5 to 10,000 mg/l
		Dissolved Oxygen (DO)	APHA 22 nd Edition 4500 O-C	0.2 to 20 mg/l
		Ammonical Nitrogen	APHA 22 nd Edition 4500 NH ₃ C	0.28 to 1400 mg/l
		Oil and grease	APHA 22 nd Edition 5520 D	0.5 to 300 mg/l
		Sulphate	APHA 22 nd Edition 4500 SO ₄ ⁻² E	2 to 1000 mg/l
		Sodium	APHA 22 nd Edition 3500 Na B	2 to 10,000 mg/l
		Potassium	APHA 22 nd Edition 3500 K B	1 to 1000 mg/l
		Iron	APHA 22 nd Edition 3500 Fe B	0.1 to 100 mg/l
		Phenol	APHA 22 nd Edition 5530 D	0.01 to 5 mg/l
		Flouride	APHA 22 nd Edition 4500 F D	0.1 to 100 mg/l
		Colour, Pt Co Unit	APHA 22 nd Edition 2120 B	1 to 50,000
		pH	APHA 22 nd Edition 4500 H ⁺ B	1 to 14
		Turbidity	APHA 22 nd Edition 2130 B	0.1 to 1000 NTU
		Temperature	APHA 22 nd Edition 2550 B	Ambient to 75°C
		Total Dissolved Solids (TDS)	APHA 22 nd Edition 2540 C	5 to 1,00,000 mg/l
	Total suspended solids	APHA 22 nd Edition 2540 D	5 to 1,00,000 mg/l	

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III. WATER

1. Potable Water, Domestic Water, Surface and Ground Water	Total Alkalinity	APHA 22 nd Edition 2320 B	10 to 1000 mg/l
	Total Hardness	APHA 22 nd Edition 2340 C	10 to 2000 mg/l
	Calcium	APHA 22 nd Edition 3500 Ca B	1 to 1000 mg/l
	Magnesium	APHA 22 nd Edition 3500 Mg B	2 to 1000 mg/l
	Chloride	APHA 22 nd Edition 4500 Cl ⁻ B	5 to 3000 mg/l
	Chemical Oxygen Demand (COD)	APHA 22 nd Edition 5220 B	4 to 3000 mg/l
	Biochemical Oxygen Demand (BOD) @ 27 °C for 3 Days	APHA 22 nd Edition 5210 B	5 to 1000 mg/l
	Dissolved Oxygen (DO)	APHA 22 nd Edition 4500 O-C	0.2 to 10 mg/l
	Ammonical Nitrogen	APHA 22 nd Edition 4500 NH ₃ C	0.28 to 25 mg/l
	Oil and grease	APHA 22 nd Edition 5520 D	0.5 to 25 mg/l
	Sulphate	APHA 22 nd Edition 4500 SO ₄ ⁻² E	2 to 400 mg/l
	Sodium	APHA 22 nd Edition 3500 Na B	2 to 700 mg/l
Potassium	APHA 22 nd Edition 3500 K B	1 to 200 mg/l	

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	Potable Water, Domestic Water, Surface and Ground Water	Iron	APHA 22 nd Edition 3500 Fe B	0.1 to 50 mg/l
		Phenol	APHA 22 nd Edition 5530 D	0.01 to 5 mg/l
		Flouride	APHA 22 nd Edition 4500 F D	0.1 to 10 mg/l
		Colour, Pt Co Unit	APHA 22 nd Edition 2120 B	1 to 500
		pH	APHA 22 nd Edition 4500 H ⁺ B	3 to 12
		Turbidity	APHA 22 nd Edition 2130 B	0.1 to 100 NTU
		Temperature	APHA 22 nd Edition 2550 B	Ambient to 50°C
		Total Dissolved Solids (TDS)	APHA 22 nd Edition 2540 C	5 to 10000 mg/l
		Total suspended solids	APHA 22 nd Edition 2540 D	5 to 1250 mg/l

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