

Laboratory Environmental Testing Laboratory of Comet Consultancy Services,
18-Block 'B' Amrapali Complex, Bopal-Ambli Cross Road,
Ahmedabad, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7175 (in lieu of T-2958)

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Validity 19.05.2018 to 18.05.2020

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.	Potable Water, Domestic Water, Surface and Ground Water	Total Alkalinity	APHA 22 nd Edition 2320 B	10 mg/l to 1000 mg/l
		Total Hardness	APHA 22 nd Edition 2340 C	10 mg/l to 2000 mg/l
		Calcium as Ca	APHA 22 nd Edition 3500 Ca B	1 mg/l to 1000 mg/l
		Magnesium as Mg	APHA 22 nd Edition 3500 Mg B	2 mg/l to 1000 mg/l
		Chloride	APHA 22 nd Edition 4500 Cl-B	5 mg/l to 3000 mg/l
		Chemical Oxygen Demand (COD)	APHA 22 nd Edition 5220 B	4 mg/l to 3000 mg/l
		Biochemical Oxygen Demand (BOD) @ 20 °C for 5 Days / 27 °C for 3 Days	APHA 22 nd Edition 5210 B IS 3025 (Part 44): 1993	1 mg/l to 1000 mg/l
		Dissolved Oxygen (DO)	APHA 22 nd Edition 4500 O-C	0.2 mg/l to 15 mg/l
		Ammonical Nitrogen	APHA 22 nd Edition 4500 NH ₃ C/ IS 3025 (Part 34)	0.28 mg/l to 25 mg/l
		Oil and grease	APHA 22 nd Edition 5520 D	5 mg/l to 25 mg/l
		Sulphate	APHA 22 nd Edition 4500 SO ₄ ⁻² E	2 mg/l to 400 mg/l
		Sodium	APHA 22 nd Edition 3500 Na B	2 mg/l to 700 mg/l
		Potassium	APHA 22 nd Edition 3500 K B	1 mg/l to 200 mg/l
	Iron	APHA 22 nd Edition 3500 Fe B	0.1 mg/l to 50 mg/l	
	Phenol	APHA 22 nd Edition 5530 D	0.01 mg/l to 5 mg/l	

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Convenor

N. Venkateswaran
Program Director

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		Flouride	APHA 22 nd Edition 4500 F D	0.1 mg/l to 10 mg/l
		Colour	APHA 22 nd Edition 2120 B	5 to 500 Pt Co Unit
		pH	APHA 22 nd Edition 4500 H ⁺ B	1 to 14
		Turbidity	APHA 22 nd Edition 2130 B	0.1 NTU 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 mg/l to 10000 mg/l
		Total suspended solids	APHA 22 nd Edition 2540 D	5 mg/l to 2000 mg/l
II.	POLLUTION & ENVIRONMENT			
1.	Waste Water , Sewage Water & Effluent Water	Total Alkalinity	APHA 22 nd Edition 2320 B	10 mg/l to 2500 mg/l
		Total Hardness	APHA 22 nd Edition 2340 C	10 mg/l to 10000 mg/l
		Calcium	APHA 22 nd Edition 3500 Ca B	1 mg/l to 1000 mg/l
		Magnesium	APHA 22 nd Edition 3500 Mg B	2 mg/l to 1000 mg/l
		Chloride	APHA 22 nd Edition 4500 Cl-B	5 mg/l to 5000 mg/l
		Chemical Oxygen Demand (COD)	APHA 22 nd Edition 5220 B	4 mg/l to 50000 mg/l
		Biochemical Oxygen Demand (BOD) @ 20 °C for 5 Days / 27 °C for 3 Days	APHA 22 nd Edition 5210 B/ IS 3025 (Part 44) 1993	1 mg/l to 25000 mg/l
		Dissolved Oxygen (DO)	APHA 22 nd Edition 4500 O-C	0.2 mg/l to 15 mg/l
		Ammonical Nitrogen	APHA 22 nd Edition 4500 NH ₃ C/IS 3025 (Part 34)	0.28 mg/l to 1400 mg/l
	Oil and grease	APHA 22 nd Edition 5520 D	5 mg/l to 300 mg/l	

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		Sulphate	APHA 22 nd Edition 4500 SO ₄ ⁻² E	2 mg/l to 1000 mg/l
		Sodium	APHA 22 nd Edition 3500 Na B	2 mg/l to 10000 mg/l
		Potassium	APHA 22 nd Edition 3500 K B	1 mg/l to 1000 mg/l
		Iron	APHA 22 nd Edition 3500 Fe B	0.1 mg/l to 100 mg/l
		Phenol	APHA 22 nd Edition 5530 D	0.01 mg/l to 5 mg/l
		Flouride	APHA 22 nd Edition 4500 F D	0.1 mg/l to 100 mg/l
		Colour	APHA 22 nd Edition 2120 B	5 to 50000 Pt Co Unit
		pH	APHA 22 nd Edition 4500 H ⁺ B	1 to 14
		Turbidity	APHA 22 nd Edition 2130 B	0.1 NTU 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 mg/l to 100000 mg/l
		Total suspended solids	APHA 22 nd Edition 2540 D	5 mg/l to 50000 mg/l
III.	ATMOSPHERIC POLLUTION			
1.	Ambient Air Quality	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001	5 µg/m ³ to 1050 µg/m ³
		Oxide of Nitrogen (NO _x)	IS 5182 (Part 6): 2006	5 µg/m ³ to 750 µg/m ³
		Particulate matters-10 (PM ₁₀)	IS 5182 (Part 23): 2006	10 µg/m ³ to 1000 µg/m ³
		Particulate matters-2.5 (PM _{2.5})	SOP No. W/OPN/41 Issue No. 1.0 Issue Date 13/02/2018	10 µg/m ³ to 500 µg/m ³
2.	Stack Emission (Source Emission)	Sulfur Dioxide (SO ₂)	IS 11255 (Part 2): 1985 (RA 2003)	10 mg/Nm ³ to 500 mg/Nm ³

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		Oxide of Nitrogen (NO _x)	IS 11255 (Part 7): 2005	10 mg/Nm ³ to 1500 mg/Nm ³
		Particulate matters (PM)	IS 11255 (Part 1): 1985 (RA 2009)	5 mg/Nm ³ to 500 mg/Nm ³

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