

Laboratory **Jyoti Om Chemical Research Centre Pvt. Ltd. (Analytical Laboratory Division), K-1, 7705/2-4, GIDC Estate, Ankleshwar, Gujarat**

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

Certificate Number **TC-6590 (in lieu of T-2675)**

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Validity **14.10.2017 to 13.10.2019**

Last Amended on **29.11.2017**

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.	Surface Water/Ground Water	pH	APHA 4500 H+ B Electrometric Method	0.1 to 13.9
		Temperature	APHA 2550 B By Thermometer	2 °C to 110 °C
		Color	APHA 2120 C Platinum Cobalt Method	0 to 110 Pt. Co. Scale
		BOD (27°C @ 3 days)	IS 3025 (Part-44)	3 mg/L to 1000 mg/L
		COD	APHA5220 B Open Reflux Method	4 mg/L to 1200 mg/L
		Oil and Grease	APHA 5520 B Liq-Liq Partition Gravimetric Method	10 mg/L to 200 mg/L
		Total Suspended Solids	APHA 2540-D Total Suspended Solids Dried at 103-105°C	10 mg/L to 1000 mg/L
		Total Dissolved Solids	APHA 2540 C Total Dissolved Solid Dried at 180°C	10 mg/L to 10,000 mg/L
		Dissolved Oxygen	IS 3025 (Part 38)	1.0 mg/L to 9.0 mg/L
		Chloride	APHA 4500-CI-B Argentometric method	2 mg/L to 1000 mg/L
		Total Hardness as CaCO ₃	APHA 2340 C: Page 2-37 EDTA Titrimetric Method	2 mg/L to 1500 mg/L
		Calcium as Ca	APHA 3500-Ca : B Page 3-65 EDTA Titrimetric Method	2 mg/L to 1000 mg/L
		Magnesium as Mg	APHA 3500-Mg : B Page 3-84 Calculation Method	2 mg/L to 500 mg/L
		Total Alkalinity	APHA 2320 B: Page 2-27 Titration Method	2 mg/L to 1000 mg/L
Acidity	APHA 2310 B: Page 2-24 Titration Method	2 mg/L to 1000 mg/L		

Pooja Singh
Convenor

N. Venkateswaran
Program Director

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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
		Sulphate	APHA 4500-SO ₄ ⁻² E: Page 4-188 Turbidimetric Method	1 mg/L to 500 mg/L
		Ammonical Nitrogen	APHA 4500-NH ₃ C: Page 4-110 Titrimetric Method	1 mg/L to 40 mg/L
		Turbidity	APHA 2130 B: Page 2-9 Nephelometric Method	1 NTU to 100 NTU
		Iron (as Fe)	APHA 3500-Fe B : Page 3-88 Phenanthroline Method	0.1 mg/L to 2 mg/L
		Sulphide as (S ⁻)	APHA 4500-S ⁻² F Iodometric	1 mg/L to 500 mg/L
II.	POLLUTION AND ENVIRONMENT			
1.	Waste Water (Sewage/Effluent)	pH	APHA 4500 H+ B Electrometric Method	0.1 to 13.9
		Temperature	APHA 2550 B By Thermometer	2 °C to 110 °C
		BOD (27°C @ 3 days)	IS: 3025 (Part-44)	3 mg/L to 1000 mg/L
		COD	APHA 5220 B Open Reflux Method	4 mg/L to 5000 mg/L
		Oil and Grease	APHA 5520 B Liq-Liq Partition Gravimetric Method	10 mg/L to 200 mg/L
		Total Suspended Solids	APHA 2540-D-Total Suspended Solids Dried at 103-1050C	10 mg/L to 1000 mg/L
		Total Dissolved Solids	APHA 2540 C Total Dissolved Solid Dried at 180°C	10 mg/L to 10,000 mg/L
		Dissolved Oxygen	IS 3025 (Part 38) / APHA	1.0 mg/L to 9.0 mg/L
		Chloride	APHA 4500-Cl-B-Argentometric method	2 mg/L to 1000 mg/L
		Sulphate	APHA 4500-SO ₄ -2 E: Page 4-188	1 mg/L to 1000 mg/L

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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
			Turbidimetric Method/ IS 3025 (Part 24) 1 Gravimetric Method	
		Ammonical Nitrogen	APHA 4500-NH3 C: Page 4-110 Titrimetric Method	1 mg/L to 40 mg/L
		Turbidity	APHA 2130 B: Page 2-9 Nephelometric Method	1 NTU to 100 NTU
		Iron (as Fe)	APHA 3500-Fe B : Page 3-88 Phenanthroline Method	0.1 mg/L to 2 mg/L
		Sulphide as (S ⁻)	APHA 4500-S-2 F Iodometric Method	1 mg/L to 500 mg/L

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