

Laboratory **Paramount Limited (Laboratory Division), Paramount Complex, Gotri Road Race-Course, Vadodara, Gujarat**

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

Certificate Number **TC-8293**

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Validity **18.01.2019 to 17.01.2021**

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

<b>I. WATER</b>				
1.	<b>Ground Water/ Surface Water/ Potable Water/ Raw Water</b>	pH	APHA 4500 H <sup>+</sup> B	2 to 12
		Temperature	APHA 2550 B	10 °C to 70 °C
		Color	APHA 2120 B	5 Hazen to 500 Hazen
		Total Solids	APHA 2540 B	5.0 mg/L to 5000 mg/L
		Total Dissolved Solids	APHA 2540 C	5.0 mg/L to 5000 mg/L
		Total Suspended Solids	APHA 2540 D	5 mg/L to 500 mg/L
		Chloride as Cl <sup>-</sup>	APHA 4500 Cl <sup>-</sup> B	1 mg/L to 2000 mg/L
		Sulphate as SO <sub>4</sub> <sup>2-</sup>	APHA 4500 SO <sub>4</sub> <sup>2-</sup>	1 mg/L to 1000 mg/L
		Fluoride as F <sup>-</sup>	APHA 4500 F <sup>-</sup> D	0.1 mg/L to 10 mg/L
		Electrical Conductivity	APHA 2510 B	1 µS/cm to 200 mS/cm
		Turbidity	APHA 2130 B	1 NTU to 1000 NTU
		Sodium as Na	APHA 3500 Na B	0.2 mg/L to 1000 mg/L
		Potassium as K	APHA 3500 K B	2 mg/L to 500 mg/L
		Total Hardness as CaCO <sub>3</sub>	APHA 2340 C	1 mg/L to 2000 mg/L
		Calcium as Ca	APHA 3500 Ca B	1 mg/L to 1000 mg/L
		Magnesium as Mg	APHA 3500 Mg B	1 mg/L to 1000 mg/L
		Total Alkalinity as CaCO <sub>3</sub>	APHA 2320 B	5 mg/L to 1000 mg/L
		Dissolved Oxygen (DO)	APHA 4500 B	1.0 mg/L to 9.0 mg/L
		Iron as Fe	APHA 3500 Fe B	0.1 mg/L to 50 mg/L
	Hexa valent Chromoum as Cr <sup>+6</sup>	APHA 3500 Cr B	0.2 mg/L to 20 mg/L	
	Phosphate	APHA 4500 P	0.3 mg/L to 50 mg/L	
<b>II. POLLUTION &amp; ENVIRONMENT</b>				
1.	<b>Waste Water/ (Effluent/</b>	pH	APHA 4500 H <sup>+</sup> B	2 to 12
		Temperature	APHA 2550 B	10 °C to 70 °C

**Deepak Kumar Sharma**  
Convenor

**Anuja Anand**  
Program Manager

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	<b>Sewage)</b>	Color	APHA 2120 B	5 Hazen to 500 Hazen
		Total Solids	APHA 2540 B	5.0 mg/L to 50000 mg/L
		Total Dissolved Solids	APHA 2540 C	5.0 mg/L to 50000 mg/L
		Total Suspended Solids	APHA 2540 D	5 mg/L to 1000 mg/L
		Chloride as Cl <sup>-</sup>	APHA 4500 Cl <sup>-</sup> B	5 mg/L to 10000 mg/L
		Sulphate as SO <sub>4</sub> <sup>2-</sup>	APHA 4500 SO <sub>4</sub> <sup>2-</sup>	5 mg/L to 10000 mg/L
		Fluoride as F <sup>-</sup>	APHA 4500 F <sup>-</sup> B, D	0.1 mg/L to 10 mg/L
		Electrical Conductivity	APHA 2510 B	1 µS/cm to 200 mS/cm
		Turbidity	APHA 2130 B	5 NTU to 1000 NTU
		Sodium as Na	APHA 3500 Na B	5 mg/L to 1000 mg/L
		Potassium as K	APHA 3500 K B	2 mg/L to 500 mg/L
		Chemical Oxygen Demand	IS 3025 (Part 58)	5 mg/L to 100000 mg/L
		Bio Chemical Oxygen Demand (27°C for 3 Days)	IS 3025 (Part 44)	2 mg/L to 50000 mg/L
		Oil & Grease	APHA 5520 B	1 mg/L to 1000 mg/L
		Ammonical Nitrogen as NH <sub>3</sub> -N	APHA 4500-NH <sub>3</sub> B, C	1 mg/L to 100 mg/L
		Total Kjeldahl Nitrogen as TKN	APHA 4500 NH <sub>3</sub> B, C	1 mg/L to 100 mg/L
		Dissolved Oxygen	APHA 4500 B	1.0 mg/L to 12 mg/L
		Iron as Fe	APHA 3500 Fe B	0.5 mg/L to 50 mg/L
		Hexa valent Chromium as Cr <sup>+6</sup>	APHA 3500 Cr B	0.2 mg/L to 40 mg/L
		Phosphate	APHA 4500 P	0.3 mg/L to 50 mg/L
	Phenol	APHA 5530	1 mg/L to 10 mg/L	
	Sulphide	APHA 4500 S <sup>2-</sup> F	0.5 mg/L to 50 mg/L	
	Volatile Solid	APHA 2540 E	5 mg/L to 1000 mg/L	
2.	<b>Waste</b>	pH	IPL/SOP-S/pH/01	2 to 12

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	(Liquid/ Slurry/ Sludge/Solid/ Semi-Solid)	Moisture	PL/SOP-S/pH/01	1 % to 50 %
III.	<b>ATMOSPHERIC POLLUTION</b>			
1.	<b>Ambient Air</b>	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 2)	5 µg/m <sup>3</sup> to 100 µg/m <sup>3</sup>
		Nitrogen Dioxide as NO <sub>2</sub>	IS 5182 (Part 6)	5 µg/m <sup>3</sup> to 100 µg/m <sup>3</sup>
2.	<b>Stack Emissions</b>	Particulate Matter as PM	IS 11255 (Part 1)	5 mg/Nm <sup>3</sup> to 1000 mg/Nm <sup>3</sup>
		Sulphur Dioxide as SO <sub>2</sub>	IS 11255 (Part 2)	5 mg/Nm <sup>3</sup> to 200 mg/Nm <sup>3</sup>
		Oxides of Nitrogen as NO <sub>x</sub>	IS 11255 (Part 7)	5 mg/Nm <sup>3</sup> to 200 mg/Nm <sup>3</sup>