

Laboratory **ENTECH Laboratories, 33, 34 Kushal Estate, Saket Industrial Estate, Village: Moraiya, Ta: Sanand, Dist. Ahmedabad, Gujarat**

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

Certificate Number **TC-5556**

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Validity **18.01.2018 to 17.01.2020**

Last Amended on 07.02.2018

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, Bore Water	Temperature	IS 3025 (Part 09): 1984 (RA 2012) APHA 22nd Edition 2550	10 °C to 70 °C
		Turbidity	IS 3025 (Part 10): 1984 (RA 2012) APHA 22nd Edition 2130	2 NTU to 1000 NTU
		Conductivity	IS 3025 (Part 14): 1984 (RA 2013) APHA 22nd Edition 2510	1 µS/cm to 1000 µS/cm
		Dissolved oxygen	IS 3025 (Part 38): 1989 (RA 2014) APHA 22nd Edition 4500 –O	1 mg/L to 20 mg/L
		Total Hardness (CaCO ₃)	IS 3025 (Part 21): 2014 APHA 22nd Edition 2340 –C	1 mg/L to 1000 mg/L
		Calcium Hardness (Ca)	IS 3025 (Part 40): 1991 (RA 2014) APHA 22nd Edition 3500 –Ca	1 mg/L to 1000 mg/L
		Magnesium Hardness (Mg)	IS 3025 (Part 46): 1994 (RA 2014) APHA 22nd Edition 3500 –Mg	1 mg/L to 1000 mg/L
		Total Solids	IS 3025 (Part 15): 1984 (RA 2014) APHA 22nd Edition 2540 –B	5 mg/L to 5000 mg/L
		Oil and Grease	IS 3025 (Part 39): 1991 (RA 2014) APHA 22nd Edition 5520 –B	5 mg/L to 500 mg/L

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		Residual Chlorine - Iodometric method	IS 3025 (Part 26): 1986 (RA 2014) APHA 22nd Edition 4500 –Cl. B	1 mg/L to 100 mg/L
		Phenolic Compounds (C ₆ H ₅ OH)	IS 3025 (Part 43): 1992 (RA 2014) APHA 22nd Edition 5530 –D	0.5 mg/L to 10 mg/L
		Sulphate (SO ₄ ²⁻)	IS 3025 (Part 24): 1996 (RA 2014) APHA 22nd Edition 4500 SO ₄ 2–E	5 mg/L to 1000 mg/L
		Sulphide (S ²⁻) - Iodometric Method	IS 3025 (Part 29): 1986 (RA 2014) APHA 22nd Edition): 2012 4500 S ₂ –F	1 mg/L to 100 mg/L
		pH	IS 3025 (Part 11): 2004 (RA 2014) APHA 22nd Edition 4500 H+	2 to 12
		Total Alkalinity (CaCO ₃)	IS 3025 (Part 23): 1986 (RA 2014) APHA 22nd Edition 2320	1 mg/L to 1000 mg/L
		Total Dissolved Solids (TDS)	IS 3025 (Part 17): 1984 (RA 2014) APHA 22nd Edition 2540 D	5 mg/L to 5000 mg/L
		Total Suspended Solids (TSS)	IS 3025 (Part 32): 1988 (RA 2014) APHA 22nd Edition 4500 Cl–B	1 mg/L to 100 mg/L
		Chloride (Cl ⁻)	IS 3025 (Part 34): 1988 (RA 2014) APHA 22nd Edition 4500 – NH ₃ –C	5 mg/L to 5000 mg/L
		Ammonical Nitrogen (NH ₃ -N)	IS 3025 (Part 11): 2004 (RA 2014)	1 mg/L to 20 mg/L

Sreeram Pinnamaraju
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			APHA 22nd Edition 4500 – H+	
II.	POLLUTION AND ENVIRONMENT			
1.	Waste Water	Temperature	IS 3025 (Part 09): 1984 (RA 2012) APHA 22nd Edition 2550	10 °C to 70 °C
		BOD at 27°C for 3 days	IS 3025 (Part 44): 1993 (RA 2014)	2 mg/L to 10000 mg/L
		Dissolved Oxygen	IS 3025 (Part 38): 1989 (RA 2014) APHA 22nd Edition 4500 – O	1 mg/L to 10 mg/L
		Total Solids	IS 3025 (Part 15): 1984 (RA 2014) APHA 22nd Edition 2540 – B	5 mg/L to 10,000 mg/L
		Oil and Grease	IS 3025 (Part 39): 1991 (RA 2014) APHA 22nd Edition 5520 – B	1 mg/L to 100 mg/L
		Sulphate (SO ₄ ²⁻)	IS 3025 (Part 24): 1996 (RA 2014) APHA 22nd Edition 4500 SO ₄ ²⁻ – E	1 mg/L to 1000 mg/L
		Sulphide (S ²⁻) - Iodometric Method	IS 3025 (Part 29): 1986 (RA 2014) APHA 22nd Edition): 2012 4500 S ₂ – F	1 mg/L to 100 mg/L
		Residual Chlorine - Iodometric method	IS 3025 (Part 26): 1986 (RA 2014) APHA 22nd Edition 4500 – Cl. B	1 mg/L to 100 mg/L
		Phenolic Compounds (C ₆ H ₅ OH)	IS 3025 (Part 43): 1992 (RA 2014) APHA 22nd Edition 5530 D	1 mg/L to 100 mg/L

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		Nitrogen Oxide (NO ₂)	IS 5182 (Part 6): 2006 (RA 2012)	6 µg/m ³ to 750 µg/m ³
2.	Stack Emission Monitoring	Particular Matter (PM)	IS 11255 (Part 1) : 1985 (RA 2014)	5 mg/Nm ³ to 1000 mg/Nm ³
		Sulphur dioxide (SO ₂)	IS 11255 (Part 2): 1985 (RA 2014)	1 mg/Nm ³ to 500 mg/Nm ³
		Nitrogen Oxide (NO _x)	IS 11255 (Part 7) – 2005 (RA 2012)	2 mg/Nm ³ to 400 mg/Nm ³

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CHEMICAL TESTING

AT SITE				
I.	ATMOSPHERIC POLLUTION			
1.	Noise	Noise Levels Ambient	IS 9989: 1981(RA 2016)	30 dB to 134 dB (A)
		Noise Level - Source	IS 4758: 1968 (RA 2017) IS 12065: 1987(RA 2009)	30 dB to 134 dB (A)