

Laboratory Regional Laboratory, Gujarat Pollution Control Board, Race Course,
Ring Road, Rajkot, Gujarat

Accreditation Standard ISO/IEC 17025:2005

Discipline Chemical Testing **Issue Date** 24.11.2013

Certificate Number T-2705 **Valid Until** 23.11.2015

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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
I. AIR, GASES & ATMOSPHERE				
1.	Ambient Air Quality	Suspended Particulate Matter	IS: 5182 (Part - IV), 1999 (Reaffirmed 2010)	20 - 200 µg/m ³ 200-500 µg/m ³ >500 µg/m ³
		RSPM (PM 10)	IS: 5182 (Part - XXIII) 2006 (Reaffirmed 2012)	20 - 200 µg/m ³ 200-500 µg/m ³ >500 µg/m ³
		Sulphur Dioxide	IS: 5182 (Part - 2), 2001 (Reaffirmed 2012)	5 - 100 µg/m ³
		Nitrogen Dioxide	IS: 5182 (Part - VI), 2006 (Reaffirmed 2012)	10 -740 µg/m ³
		Chlorine	IS 5182 (Part XIX) 1982 (Reaffirmed 2003)	5 -100 µg/ m ³
		Hydrogen Sulphide	IS : 5182 (Part-VII) 1973 (Reaffirmed 2009)	6 -100 µg/ m ³ >100 µg/m ³
		Carbon disulphide	IS : 5182 (Part-XX)1982 (Reaffirmed 2003)	600- 21000 µg/ m ³
2.	Stack Monitoring	Particulate Matter	IS: 11255 (Part - 1), 1985 (Reaffirmed 2003)	10 - 200 mg/Nm ³ 200-500 mg/Nm ³ >500 mg/Nm ³
		Oxides of Nitrogen	IS:11255 (Part-7) 2005	5 - 50 mg/Nm ³ 50-100 mg/Nm ³ >100 mg/Nm ³

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		Sulphur Dioxide	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	4 - 50 mg/Nm ³ >50 mg/Nm ³
		Carbon Disulphide	IS : 11255 (Part-4)-2006	2 - 100 ppm
		Hydrogen Sulphide	IS : 11255 (Part-4)-2006	5 -200 ppm
		Ammonia	IS:11255(Part6) 1999	5 -500 mg/Nm ³
II. POLLUTION & EFFLUENTS				
I.	Water & Liquid Effluent (Waste Water)	Colour	IS: 3025 (Part – 4) – 1983 Pt-co. Method (Reaffirmed 2002)	1 - 50000 Hazen units
		Temperature	IS: 3025 (Part – 9) – 1984 (Reaffirmed 2002)	2 °C-99 °C
		Turbidity	APHA 22 nd Ed. 2130 B	1 - 1000 NTU
		pH Value	IS: 3025 (Part – 11) – 1983 (Electrometric Method) (Reaffirmed 2002)	1 - 14
		Conductivity	APHA 22 nd Ed. 2510 B	0.1 - 10000 µS/cm
		Total Solids	APHA 22 nd Ed. 2540 B	10 -100000 mg/L
		Total Suspended Solids	APHA 22 nd Ed. 2540 D	2 - 100000 mg/L
		Total Dissolved Solids	APHA 22 nd Ed. 2540 C	10 -100000 mg/L
		Volatile & Fixed Solids	APHA 22 nd Ed. 2540 E	2 -100000 mg/L
		Total Hardness	APHA 22 nd Ed. 2340 C (EDTA Method)	5-10000 mg/L

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		Residual Chlorine	APHA 22 nd Ed. 4500 Cl G-DPD colorimetric method	0.2 - 100 mg/L
		Chloride	APHA 22 nd Ed. 4500-Cl-B (Argento metric Method)	5 -10000 mg/L
		Dissolved O ₂	APHA 22 nd Ed. 4500-O-C (Azide modification Method)	0.1- 20 mg/L
		Calcium	APHA 22 nd Ed. 3500-Ca B (EDTA Titrimetric Method)	5-10000 mg/L
		Magnesium	APHA 22 nd Ed. 3500-Mg B (EDTA Titrimetric Method)	5-10000 mg/L
		BOD	3 –Day BOD Test, (IS – 3025 Part – 44): 1993 (Reaffirmed 2009)	10 -10000 mg/L
		Oil & Grease (Mineral Oil)	APHA 22 nd Edition : 5520 B Liquid –Liquid partition Gravimetric Method	0.4 - 5000 mg/L
		Phenolic Compound	APHA 22 nd Ed.: 5530 D 4-Aminoantipyrine Method without Chloroform Extraction (Direct Photometric Method)	0.01- 1000 mg/L
		Sulphides	APHA 22 nd Ed. 4500- S2 - F Iodometric method	1.0- 500 mg/L
		COD	APHA 22 nd Edition : -5220 –B	4-100000 mg/L
		Hexavelant Chromium	APHA 22 nd Edition : -3500-Cr B	0.01-100 mg/L

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		Sulphate	APHA 22 nd Ed. 4500 SO ₄ E	2-10000 mg/L
		Sodium	APHA 22 nd Ed. 3500 –Na- B	0.01-10000 mg/L
		Potassium	APHA 22 nd Ed. 3500 –K –B	0.01-10000 mg/L
		% Na	Calculation Method	0.01-100 %
		SAR	Calculation Method	0.01-100
		Cyanide	APHA 22 nd Ed. 4500-C N – E	0.01-100 mg/L
		Acidity	APHA 22 nd Ed. 2310 –B	1-10000 mg/L
		Alkalinity	APHA 22 nd Ed. 2320 – B	1-5000 mg/L
		Fluoride	APHA 22 nd Ed. 4500 –F –D	0.001-1000 mg/L
		Boron	APHA 22 nd Ed. 4500 –B –B	0.002-100 mg/L
		Manganese	APHA 22 nd Ed. 3500 –Mn B	0.03-100 mg/L
		Total Kjeldahl Nitrogen	APHA 22 nd Ed. 4500 –Norg -B	0.1-5000 mg/L
		Ammonia Nitrogen	APHA 22 nd Ed. 4500 –NH ₃ B & C	0.1-5000 mg/L
		Nitrate Nitrogen	APHA 22 nd Ed. 4500 –NO ₃ -E	0.1-100 mg/L
		Nitrite Nitrogen	APHA 22 nd Ed. 4500 –NO ₂ -B	0.001-100 mg/L
		Phosphate	APHA 22 nd Ed. 4500 –P- E	0.01-100 mg/L
		Iron	APHA 22 nd Ed. 3500 –Fe B	0.02-500 mg/L
		Chromium	APHA 22 nd Ed. 3500-Cr B	0.02-500 mg/L

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		Copper	APHA 22 nd Ed. 3111-B	0.01-500 mg/L
		Lead	APHA 22 nd Ed. 3111-B	0.05-500 mg/L
		Nickel	APHA 22 nd Ed. 3111-B	0.02-500 mg/L
		Zinc	APHA 22 nd Ed. 3111-B	0.02-500 mg/L
		Cadmium	APHA 22 nd Ed. 3111-B	0.02-500 mg/L

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