

**Laboratory** Central Laboratory, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector 10 A, Gandhinagar, Gujarat

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

**Discipline** Chemical Testing **Issue Date** 05.04.2014

**Certificate Number** T-2104 **Valid Until** 04.04.2016

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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
<b>I. WATER</b>				
1.	<b>Potable and Domestic Water</b>	Colour	IS 3025 (Part 4): 1983 (RA 2002)	2 Hazen units to 50000 Hazen units
		Temperature	IS 3025 (Part 9): 1984 (RA 2002)	2 °C to 99 °C
		Turbidity	APHA 22 <sup>nd</sup> Edition 2012 2130 B	1 NTU to 1000 NTU
		pH Value	IS 3025 (Part 11): 1983 (RA 2002)	1 to 14
		Conductivity	APHA 22 <sup>nd</sup> Edition 2012 2510 B	0.1 µs/cm to 10000 µs/cm
		Total Dissolved Solids	APHA 22 <sup>nd</sup> Edition 2012 2540 C	10 mg/L to 100000 mg/L
		Total Suspended Solids	APHA 22 <sup>nd</sup> Edition 2012 2540 D	2 mg/L to 100000 mg/L
		Chloride	APHA 22 <sup>nd</sup> Edition 2012 4500 Cl-B	10 mg/L to 100000 mg/L
		Dissolved O <sub>2</sub>	APHA 22 <sup>nd</sup> Edition 2012 4500 O-C	0.1 mg/L to 20 mg/L

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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Potable and Domestic Water</b>	Calcium	APHA 22 <sup>nd</sup> Edition 2012 3500 Ca B	5 mg/L to 10000 mg/L
		Magnesium	APHA 22 <sup>nd</sup> Edition 2012 3500 Mg B	5 mg/L to 10000 mg/L
		BOD	IS 3025 (Part 44): 1993 (RA 2009)	10 mg/L to 10000 mg/L
		Total Hardness	APHA 22 <sup>nd</sup> Edition 2012 2340	5 mg/L to 10000 mg/L
		COD	APHA 22 <sup>nd</sup> Edition 2012 5220 B	4 mg/L to 100000 mg/L
		Sulphate	APHA 22 <sup>nd</sup> Edition 2012 4500 SO <sub>4</sub> E	2 mg/L to 10000 mg/L
		Sodium	APHA 22 <sup>nd</sup> Edition 2012 3500 Na- B	0.01 mg/L to 10000 mg/L
		Potassium	APHA 22 <sup>nd</sup> Edition 2012 3500-K-B	0.01 mg/L to 10000 mg/L
		Acidity	APHA 22 <sup>nd</sup> Edition 2012 2310 B	1 mg/L to 10000 mg/L
		Alkalinity	APHA 22 <sup>nd</sup> Edition 2012 2320 B	1 mg/L to 5000 mg/L

**Sumit Sundriyal**  
**Convenor**

**N. Venkateswaran**  
**Program Manager**

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	<b>Potable and Domestic Water</b>	Fluoride	APHA 22 <sup>nd</sup> Edition 2012 4500 F-C APHA 22 <sup>nd</sup> Edition 2012 4500 F-D	0.01 mg/L to 1000 mg/L
		Boron	APHA 22 <sup>nd</sup> Edition 2012 4500 B B	0.002 mg/L to 100 mg/L
		Total Kjeldahl Nitrogen	APHA 22 <sup>nd</sup> Edition 2012 4500 N <sub>org</sub> -B	0.5 mg/L to 100000 mg/l
		Ammonia Nitrogen	APHA 22 <sup>nd</sup> Edition 2012 4500 NH <sub>3</sub> B & C	0.5 mg/L to 10000 mg/L
		Nitrate Nitrogen	APHA 22 <sup>nd</sup> Edition 2012 4500-NO <sub>3</sub> -E	0.01 mg/L to 100 mg/L
		Nitrite Nitrogen	APHA 22 <sup>nd</sup> Edition 2012 4500-NO <sub>2</sub> B	0.01 mg/L to 100 mg/L
		Phosphate	APHA 22 <sup>nd</sup> Edition 2012 4500- P D	0.05 mg/L to 100 mg/L
		Copper	APHA 22 <sup>nd</sup> Edition 2012 3111 B	0.01 mg/L to 500 mg/L
		Lead	APHA 22 <sup>nd</sup> Edition 2012 3111 B	0.05 mg/L to 500 mg/L

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	<b>Potable and Domestic Water</b>	Nickel	APHA 22 <sup>nd</sup> Edition 2012 3111 B	0.02 mg/L to 500 mg/L
		Zinc	APHA 22 <sup>nd</sup> Edition 2012 3111 B	0.05 mg/L to 500 mg/L
		Cadmium	APHA 22 <sup>nd</sup> Edition 2012 3111 B	0.02 mg/L to 500 mg/L
		Chromium	APHA 22 <sup>nd</sup> Edition 2012 3111 B	0.02 mg/L to 500 mg/L
		Iron	APHA 22 <sup>nd</sup> Edition 2012 3111 B	0.02 mg/L to 500 mg/L
<b>2.</b>	<b>Liquid Effluent</b>	Colour	IS 3025 (Part 4): 1983 (RA 2002)	2 Hazen units to 50000 Hazen units
		Temperature	IS 3025 (Part 9): 1984 (RA 2002)	2 °C to 99 °C
		Turbidity	APHA 22 <sup>nd</sup> Edition 2012 2130 B	1 NTU to 1000 NTU
		pH Value	IS 3025 (Part 11): 1983 (RA 2002)	1 to 14
		Conductivity	APHA 22 <sup>nd</sup> Edition 2012 2510 B	0.1 µs/cm to 10000 µs/cm

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	<b>Liquid Effluent</b>	Total Solids	APHA 22 <sup>nd</sup> Edition 2012 2540 B	200 mg/L to 100000 mg/L
		Total Suspended Solids	APHA 22 <sup>nd</sup> Edition 2012 2540	2 mg/L to 100000 mg/L
		Total Dissolved Solids	APHA 22 <sup>nd</sup> Edition 2012 2540 C	10 mg/L to 100000 mg/L
		Volatile & Fixed residue	APHA 22 <sup>nd</sup> Edition 2012 2540 E	2 mg/L to 50000 mg/L
		Residual Chlorine	APHA 22 <sup>nd</sup> Edition 2012 4500 Cl	0.2 mg/L to 100 mg/L
		Chloride	APHA 22 <sup>nd</sup> Edition 2012 4500 Cl-B	10 mg/L to 10000 mg/L
		Dissolved O <sub>2</sub>	APHA 22 <sup>nd</sup> Edition 2012 4500 O-C	0.1 mg/L to 20 mg/L
		Calcium	APHA 22 <sup>nd</sup> Edition 2012 3500 Ca B	5 mg/L to 10000 mg/L
		Magnesium	APHA 22 <sup>nd</sup> Edition 2012 3500 Mg B	5 mg/L to 10000 mg/L
		BOD	IS 3025 (Part 44): 1993 (RA 2009)	10 mg/L to 10000 mg/L

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	<b>Liquid Effluent</b>	Oil & Grease (Mineral Oil)	APHA 22 <sup>nd</sup> Edition 2012 5520 B	0.4 mg/L to 5000 mg/L
		Total Hardness	APHA 22 <sup>nd</sup> Edition 2012 2340	5 mg/L to 10000 mg/L
		Phenolic Compound	APHA 22 <sup>nd</sup> Edition 2012 5530 D	0.01 mg/L to 1000 mg/L
		Sulphides	APHA 22 <sup>nd</sup> Edition 2012 4500 S2 D	1 mg/L to 500 mg/L
		COD	APHA 22 <sup>nd</sup> Edition 2012 5220 B	4 mg/L to 100000 mg/L
		Hexavalent Chromium	APHA 22 <sup>nd</sup> Edition 2012 3500 Cr B	0.01 mg/L to 100 mg/L
		Sulphate	APHA 22 <sup>nd</sup> Edition 2012 4500 SO <sub>4</sub> E	2 mg/L to 10000 mg/L
		Sodium	APHA 22 <sup>nd</sup> Edition 2012 3500 Na- B	0.01 mg/L to 10000 mg/L
		Potassium	APHA 22 <sup>nd</sup> Edition 2012 3500-K-B	0.01 mg/L to 10000 mg/L
		% Na	Calculation Method IS 3027 (Part 45): 1993	0.01 % to 100 %

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	<b>Liquid Effluent</b>	% Potassium	Calculation Method IS 3027 (Part 45): 1993	0.01 % to 100 %
		SAR	Calculation Method IS 3027 (Part 45): 1993	0.01 to 100
		Cyanide	APHA 22 <sup>nd</sup> Edition 2012 4500-CN-E	0.01 mg/L to 100 mg/L
		Acidity	APHA 22 <sup>nd</sup> Edition 2012 2310 B	1 mg/L to 10000 mg/L
		Alkalinity	APHA 22 <sup>nd</sup> Edition 2012 2320 B	1 mg/L to 5000 mg/L
		Fluoride	APHA 22 <sup>nd</sup> Edition 2012 4500 F-C	0.001 mg/L to 1000 mg/L
		Boron	APHA 22 <sup>nd</sup> Edition 2012 4500 B B	0.002 mg/L to 100 mg/L
<b>II. AIR, GASES &amp; ATMOSPHERE</b>				
<b>1.</b>	<b>Ambient Air Quality</b>	SPM	IS 5182 (Part 4): 1999 (RA 2010)	20 µg/m <sup>3</sup> to 200 µg/m <sup>3</sup> 200 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup> >500 µg/m <sup>3</sup>
		RSPM (PM 10)	IS 5182 (Part 23): 2006 (RA 2012)	20 µg/m <sup>3</sup> to 200 µg/m <sup>3</sup> 200 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup> >500 µg/m <sup>3</sup>

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	<b>Ambient Air Quality</b>	SO <sub>2</sub>	IS 5182 (Part 2): 2001 (RA 2012)	5 µg/m <sup>3</sup> to 100 µg/m <sup>3</sup>
		NO <sub>2</sub>	IS 5182 (Part 6): 2006 (RA 2012)	10 µg/m <sup>3</sup> to 740 µg/m <sup>3</sup>
		Chlorine	IS 5182 (Part 19): 1982 (RA 2003)	5 µg/m <sup>3</sup> & above
		Hydrogen Sulphide	IS 5182 (Part 7): 1973 (RA 2009)	6 µg/m <sup>3</sup> to 100 µg/m <sup>3</sup> >100 µg/m <sup>3</sup>
<b>2.</b>	<b>Stack Monitoring</b>	PM	IS 11255 (Part 1): 1985 (RA 2003)	10 mg/Nm <sup>3</sup> to 200 mg/Nm <sup>3</sup> 200 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup> >500 mg/Nm <sup>3</sup>
		NO <sub>2</sub>	IS 11255 (Part 7): 2005	5 mg/Nm <sup>3</sup> to 50 mg/Nm <sup>3</sup> 50 mg/Nm <sup>3</sup> to 100 mg/Nm <sup>3</sup> >100 mg/Nm <sup>3</sup>
		SO <sub>2</sub>	IS 11255 (Part 2): 1985 (RA 2003)	4 mg/Nm <sup>3</sup> to 50 mg/Nm <sup>3</sup> >50 mg/Nm <sup>3</sup>
		Carbon Disulphide	IS 11255 (Part 4): 2006	6 mg/Nm <sup>3</sup> to 311 mg/Nm <sup>3</sup>
		Hydrogen Sulphide	IS 11255 (Part 4): 2006	7 mg/Nm <sup>3</sup> to 279 mg/Nm <sup>3</sup>



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	<b>Stack Monitoring</b>	Ammonia	IS 11255 (Part 6): 1999	5 mg/m <sup>3</sup> to 500 mg/m <sup>3</sup>
		Chlorine	IS 5182 (Part 19): 1982 (RA 2003)	5 µg/m <sup>3</sup> & above

-X-X-X-X-X-X-X-X-X-X-X-X-