

**Laboratory** Anand Environmental Consultants Pvt. Ltd., 16, Everest Tower,  
Naranpura, Ahmedabad, Gujarat

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

**Certificate Number** TC-6784 (in lieu of T-2809)

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**Validity** 18.01.2018 to 17.01.2020

**Last Amended on --**

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 Water	Acidity as CaCO <sub>3</sub>	APHA 2310-B: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 5000 mg/L
		Total Alkalinity as CaCO <sub>3</sub>	APHA 2320-B: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 5000 mg/L
		Total Hardness as CaCO <sub>3</sub>	APHA 2340-C: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 10000 mg/L
		Calcium Hardness as CaCO <sub>3</sub>	APHA 3500-Ca B: (23 <sup>rd</sup> Edition) 2017	0.4 mg/L to 4000 mg/L
		Magnesium Hardness as CaCO <sub>3</sub>	APHA 3500-Mg B: (23 <sup>rd</sup> Edition) 2017	0.3 mg/L to 2500 mg/L
		Calcium as Ca <sup>+2</sup>	APHA 3500-Ca B: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 4000 mg/L
		Magnesium as Mg <sup>+2</sup>	APHA 3500-Mg B: (23 <sup>rd</sup> Edition) 2017	0.3 mg/L to 2500 mg/L
		Chloride as Cl <sup>-</sup>	APHA 4500-Cl <sup>-</sup> B: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 10000 mg/L
		Chemical Oxygen Demand (COD)	APHA 5220-B: (23 <sup>rd</sup> Edition) 2017	4 mg/L to 5000 mg/L
		Biochemical Oxygen Demand (BOD) @ 27°C for 3 days	IS 3025 (Part 44): 1993 (RA 2014)	2 mg/L to 5000 mg/L
		Dissolved Oxygen (DO)	APHA 4500-O-B,C: (23 <sup>rd</sup> Edition) 2017	0.2 mg/L to 8 mg/L
		Conductivity	APHA 2510-B: (23 <sup>rd</sup> Edition) 2017	0.1 μS/cm to 10000 μS/cm
		Ammonical Nitrogen as NH <sub>3</sub> -N	APHA 4500-NH <sub>3</sub> B,C: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 500 mg/L
		Nitrite Nitrogen as NO <sub>2</sub> - N	APHA 4500-NO <sub>2</sub> <sup>-</sup> B: (23 <sup>rd</sup> Edition) 2017	0.01 mg/L to 100 mg/L

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		Oil and Grease	APHA 5520-B(O&G): (23 <sup>rd</sup> Edition) 2017	0.1 mg/L to 10 mg/L
		Sulphate as SO <sub>4</sub> <sup>-2</sup>	APHA 4500-SO <sub>4</sub> <sup>-2</sup> E: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 1000 mg/L
		Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	APHA 5530-B,C,D: (23 <sup>rd</sup> Edition) 2017	0.1 mg/L to 50 mg/L
		Fluoride as F <sup>-</sup>	APHA 4500-F <sup>-</sup> D: (23 <sup>rd</sup> Edition) 2017	0.1 mg/L to 10 mg/L
		Phosphate as PO <sub>4</sub> <sup>-2</sup>	APHA 4500-P <sup>-</sup> B,D: (23 <sup>rd</sup> Edition) 2017	1.0 mg/L to 100 mg/L
		Colour	IS 3025 (Part 4): 1983 (RA 2017)	1 Hazen to 500 Hazen
		pH	IS 3025 (Part 11): 1983 (RA 2017)	1 to 14
		Total Solids (TS)	APHA 2540-B: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 10000 mg/L
		Total Dissolved Solids (TDS)	APHA 2540-C: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 10000 mg/L
		Total Suspended Solids (TSS)	APHA 2540-D: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 5000 mg/L
		Fixed Solids	APHA 2540-E: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 10000 mg/L
		Volatile Solids	APHA 2540-E: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 1000 mg/L
		Temperature	IS 3025 (Part 9): 1984 (RA 2017)	10°C to 110°C
<b>II.</b>	<b>POLLUTION &amp; ENVIRONMENT</b>			
<b>1.</b>	<b>Waste water (Sewage / Effluent)</b>	Acidity as CaCO <sub>3</sub>	APHA 2310-B: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 5000 mg /L
		Total Alkalinity as CaCO <sub>3</sub>	APHA 2320-B: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 5000 mg /L
		Total Hardness as CaCO <sub>3</sub>	APHA 2340-C: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 10000 mg /L

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		Calcium Hardness as CaCO <sub>3</sub>	APHA 3500-Ca B: (23 <sup>rd</sup> Edition) 2017	0.4 mg/L to 4000 mg/L
		Magnesium Hardness as CaCO <sub>3</sub>	APHA 3500-Mg B: (23 <sup>rd</sup> Edition) 2017	0.3 mg/L to 2500 mg/L
		Calcium as Ca <sup>+2</sup>	APHA 3500-Ca B: (23 <sup>rd</sup> Edition) 2017	0.4 mg/L to 4000 mg/L
		Magnesium as Mg <sup>+2</sup>	APHA 3500-Mg B: (23 <sup>rd</sup> Edition) 2017	0.3 mg/L to 2500 mg/L
		Chloride as Cl <sup>-</sup>	APHA 4500-Cl B: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 10000 mg/L
		Chemical Oxygen Demand (COD)	APHA 5220-B: (23 <sup>rd</sup> Edition) 2017	4 mg/L to 20000 mg/L
		Biochemical Oxygen Demand (BOD) @ 27°C for 3 days	IS 3025 (Part 44): 1993 (RA 2014)	2 mg/L to 5000 mg/L
		Dissolved Oxygen (DO)	APHA 4500-O-B C: (23 <sup>rd</sup> Edition) 2017	0.2 mg/L to 8 mg/L
		Conductivity	APHA 2510-B: (23 <sup>rd</sup> Edition) 2017	0.1 µS/cm to 10000 µS/cm
		Ammonical Nitrogen as NH <sub>3</sub> -N	APHA 4500-NH <sub>3</sub> B,C: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 500 mg/L
		Nitrite Nitrogen as NO <sub>2</sub> - N	APHA 4500-NO <sub>2</sub> B: (23 <sup>rd</sup> Edition) 2017	0.01 mg/L to 100 mg/L
		Oil and Grease	APHA 5520-B (O&G): (23 <sup>rd</sup> Edition) 2017	0.1 mg/L to 100 mg/L
		Sulphates as SO <sub>4</sub> <sup>-2</sup>	APHA 4500-SO <sub>4</sub> <sup>-2</sup> E: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 1000 mg/L
		Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	APHA 5530-B,C,D: (23 <sup>rd</sup> Edition) 2017	0.1 mg/L to 50 mg/L
		Fluoride as F <sup>-</sup>	APHA 4500-F-D: (23 <sup>rd</sup> Edition) 2017	0.1 mg/L to 10 mg/L
		Phosphate as PO <sub>4</sub> <sup>-2</sup>	APHA 4500-P-B,D: (23 <sup>rd</sup> Edition) 2017	1.0 mg/L to 100 mg/L
		Colour	IS 3025 (Part 4): 1983 (RA 2017)	1 Hazen to 500 Hazen

**Ruchi Guntuku**  
Convenor

**N. Venkateswaran**  
Program Director

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		pH	IS 3025 (Part 11): 1983 (RA 2017)	1 to 14
		Total Solids (TS)	APHA 2540-B: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 10000 mg/L
		Total Dissolved Solids (TDS)	APHA 2540-C: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 10000 mg/L
		Total Suspended Solids (TSS)	APHA 2540-D: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 5000 mg/L
		Fixed Solids	APHA 2540-E: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 10000 mg/L
		Volatile Solids	APHA 2540-E: (23 <sup>rd</sup> Edition) 2017	1 mg/L to 1000 mg/L
		Temperature	IS 3025 (Part 9): 1984 (RA 2017)	10°C to 110°C
		Copper as Cu	APHA 3500-Cu B: (23 <sup>rd</sup> Edition) 2017	1.0 mg/L to 40 mg/L
<b>III.</b>	<b>AIR, GASES &amp; ATMOSPHERE</b>			
<b>1.</b>	<b>Ambient Air Quality Monitoring</b>	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 2): 2001 (RA 2017)	4 µg/m <sup>3</sup> to 1050 µg/m <sup>3</sup>
		Oxide of Nitrogen as NO <sub>x</sub>	IS 5182 (Part 6): 2006 (RA 2017)	6 µg/m <sup>3</sup> to 750 µg/m <sup>3</sup>
		Particulate Matters - PM <sub>10</sub>	IS 5182 (Part 23): 2006 (RA 2017)	5 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
		Particulate Matters-PM <sub>2.5</sub>	NAQQS Monitoring and Analysis (CPCB Vol.1) Gravimetric Method	5 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
		Ammonia as NH <sub>3</sub>	NAQQS Monitoring and Analysis (CPCB Vol.1) Titration Method	5 µg/m <sup>3</sup> to 450 µg/m <sup>3</sup>
		Chlorine as Cl <sub>2</sub>	IS 5182 (Part 19): 1982 (RA 2014)	5 µg/m <sup>3</sup> to 100 µg/m <sup>3</sup>

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2.	<b>Stack Emission (Stationary Source) Monitoring</b>	Sulphur Dioxide as SO <sub>2</sub>	IS 11255 (Part 2): 1985 (RA 2014)	3 mg/Nm <sup>3</sup> to 2000 mg/Nm <sup>3</sup>
		Oxide of Nitrogen as NO <sub>x</sub>	IS 11255 (Part 7): 2005 (RA 2017)	2 mg/Nm <sup>3</sup> to 400 mg/Nm <sup>3</sup>
		Particulate Matters (PM)	IS 11255 (Part 1): 1985 (RA 2014)	5 mg/Nm <sup>3</sup> to 1500 mg/Nm <sup>3</sup>
		Ammonia as NH <sub>3</sub>	IS 11255 (Part 6): 1999 (RA 2014)	5 mg/Nm <sup>3</sup> to 100 mg/Nm <sup>3</sup>

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**CHEMICAL TESTING**

<b>AT SITE</b>				
<b>I.</b>	<b>ATMOSPHERIC POLLUTION</b>			
<b>1.</b>	<b>Noise Level Monitoring</b>	Ambient Noise (Leq)	IS: 9989:1981 (RA 2008)	30 to 130 dB(A)