

Laboratory Laboratory Department, Kalptaru Pollution Control, 606-B, 6th Floor,  
Centre Point, Ring Road, Surat, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7984

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Validity 10.10.2018 to 09.10.2019

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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.	Surface Water, Ground water, Drinking Water, Industrial Water, Water from Purifiers	Electrical Conductivity	IS 3025 (Part 14)	5 µS/cm to 10000 µS/cm
		pH Value	IS 3025 (Part 11)	2.0 to 12.0
		Temperature	IS 3025 (Part 9)	20 °C to 50 °C
		Total Suspended Solids (Non-Filterable Residue)	IS 3025 (Part 17)	10 mg/L to 5000 mg/L
		Total Dissolved Solids (Filterable Residue)	IS 3025 (Part 16)	10 mg/L to 5000 mg/L
		Volatile Residue (Total filterable and Non-filterable)	IS 3025 (Part 18)	10 mg/L to 1000 mg/L
		Fixed Residue (Total filterable and Non-filterable)	IS 3025 (Part 18)	10 mg/L to 1000 mg/L
		Color	APHA (23 <sup>rd</sup> Edition) 2120 B	(5 to 70) Color Unit (70 to 250) Color Unit
		Acidity (as CaCO <sub>3</sub> )	IS 3025 (Part 22)	2 mg/L to 1000 mg/L
		Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23)	2 mg/L to 1000 mg/L
		Chemical Oxygen Demand	APHA (23 <sup>rd</sup> Edition) 5220 B	4 mg/L to 200 mg/L
		Biochemical Oxygen Demand (27 °C for 3-days)	IS 3025 (Part 44)	2 mg/L to 200 mg/L
		Carbonate (as CO <sub>3</sub> <sup>-2</sup> ) & Bicarbonate (as HCO <sub>3</sub> <sup>-</sup> )	IS 3025 (Part 51)	10 mg/L to 1000 mg/L
		Chloride (as Cl <sup>-</sup> )	IS 3025 (Part 32)	5 mg/L to 1000 mg/L
Calcium (as Ca <sup>+2</sup> )	APHA (23 <sup>rd</sup> Edition) 3500 Ca B	2 mg/L to 600 mg/L		

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		Dissolved Oxygen	IS 3025 (Part 38)	0.1 mg/L to 8.5 mg/L
		Magnesium (as Mg <sup>+2</sup> )	APHA (23 <sup>rd</sup> Edition) 3500 Mg B	2 mg/L to 250 mg/L
		Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21)	2 mg/L to 1000 mg/L
		Oil & Grease	IS 3025 (Part 39)	2 mg/L to 50 mg/L
		Total Phosphorus (as P)	APHA (23 <sup>rd</sup> Edition) 4500 P E	0.05 mg/L to 50 mg/L
		Sulphates (as SO <sub>4</sub> <sup>-2</sup> )	APHA (23 <sup>rd</sup> Edition) 4500 SO <sub>4</sub> <sup>2-</sup> E	5 mg/L to 600 mg/L
		Ammonical Nitrogen (as NH <sub>3</sub> -N)	APHA (23 <sup>rd</sup> Edition) 4500 NH <sub>3</sub> C	0.5 mg/L to 200 mg/L
		Sulphides (as S <sup>-2</sup> )	APHA (23 <sup>rd</sup> Edition) 4500 S <sup>-2</sup> F	2.0 mg/L to 50 mg/L
		Iron (as Fe)	IS 3025 (Part 53)	0.1 mg/L to 10 mg/L
		Nitrite Nitrogen (as NO <sub>2</sub> <sup>-</sup> -N)	APHA (23 <sup>rd</sup> Edition) 4500 NO <sub>2</sub> <sup>-</sup> B	0.05 mg/L to 100 mg/L
<b>II.</b>	<b>POLLUTION &amp; ENVIRONMENT</b>			
<b>1.</b>	<b>Waste Water (Effluents/ Sewage)</b>	Electrical Conductivity	IS 3025 (Part 14)	5 µS/cm to 10000 µS/cm
		pH Value	IS 3025 (Part 11)	2.0 to 12.0
		Temperature	IS 3025 (Part 9)	20 °C to 50 °C
		Total Suspended Solids (Non-Filterable Residue)	IS 3025 (Part 17)	10 mg/L to 5000 mg/L
		Total Dissolved Solids (Filterable Residue)	IS 3025 (Part 16)	10 mg/L to 100000 mg/L
		Total Solids (Dissolved & Suspended) (Total Residue)	IS 3025 (Part 15)	10 mg/L to 100000 mg/L
		Volatile Residue (Total filterable and Non-filterable)	IS 3025 (Part 18)	10 mg/L to 10000 mg/L
		Fixed Residue	IS 3025 (Part 18)	10 mg/L to 10000 mg/L

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		(Total filterable and Non-filterable)		
		Color	APHA (23 <sup>rd</sup> Edition) 2120 B	(5 to 70) Color Unit (70 to 250) Color Unit
		Acidity (as CaCO <sub>3</sub> )	IS 3025 (Part 22)	2 mg/L to 5000 mg/L
		Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23)	2 mg/L to 5000 mg/L
		Chemical Oxygen Demand	APHA (23 <sup>rd</sup> Edition) 5220 B	10 mg/L to 50000 mg/L
		Biochemical Oxygen Demand (27 °C for 3 days)	IS 3025 (Part 44)	2 mg/L to 25000 mg/L
		Chloride (as Cl <sup>-</sup> )	IS 3025 (Part 32)	5 mg/L to 10000 mg/L
		Calcium (as Ca <sup>+2</sup> )	APHA (23 <sup>rd</sup> Edition) 3500 Ca B	2 mg/L to 1000 mg/L
		Dissolved Oxygen	IS 3025 (Part 38)	0.1 mg/L to 8.5 mg/L
		Magnesium (as Mg <sup>+2</sup> )	APHA (23 <sup>rd</sup> Edition) 3500 Mg B	2 mg/L to 1000 mg/L
		Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21)	2 mg/L to 1000 mg/L
		Oil & Grease	IS 3025 (Part 39)	2.0 mg/L to 100 mg/L
		Total Phosphorus (as P)	APHA (23 <sup>rd</sup> Edition) 4500 P E	0.05 mg/L to 50 mg/L
		Sulphates (as SO <sub>4</sub> <sup>-2</sup> )	APHA (23 <sup>rd</sup> Edition) 4500 SO <sub>4</sub> <sup>-2</sup> E	5 mg/L to 2000 mg/L
		Ammonical Nitrogen (as NH <sub>3</sub> -N)	APHA (23 <sup>rd</sup> Edition) 4500 NH <sub>3</sub> - C	0.5 mg/L to 1000 mg/L
		Sulphides (as S <sup>-2</sup> )	APHA (23 <sup>rd</sup> Edition) 4500 S <sup>-2</sup> F	2.0 mg/L to 100 mg/L
		Iron (as Fe)	IS 3025 (Part 53)	0.1 mg/L to 20 mg/L
		Nitrite Nitrogen (as NO <sub>2</sub> <sup>-</sup> -N)	APHA (23 <sup>rd</sup> Edition) 4500 NO <sub>2</sub> <sup>-</sup> B	0.05 mg/L to 200 mg/L
III	<b>ATMOSPHERIC POLLUTION</b>			
1.	<b>Ambient Air</b>	Sulphur Dioxide (as SO <sub>2</sub> )	IS 5182 (Part 2)	5 µg/Nm <sup>3</sup> to 1050 µg/Nm <sup>3</sup>

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		Oxides of Nitrogen (as NO <sub>2</sub> )	IS 5182 (Part 6)	5 µg/Nm <sup>3</sup> to 750 µg/Nm <sup>3</sup>
		Respirable Suspended Particulate Matter (RSPM) (PM <sub>10</sub> )	IS 5182 (Part 23)	10 µg/Nm <sup>3</sup> to 1000 µg/Nm <sup>3</sup>
		Particulate Matter (Size less than 2.5 µm) or PM <sub>2.5</sub>	KPC (D-LB-14/ Part 2/ Method A-3)	10 µg/Nm <sup>3</sup> to 500 µg/Nm <sup>3</sup>
2.	Stack Emission Monitoring	Particulate Matter (PM)	IS 11255 (Part 1)	4 mg/Nm <sup>3</sup> to 2000 mg/Nm <sup>3</sup>
		Oxides of Nitrogen (as NO <sub>2</sub> )	IS 11255 (Part 7)	5 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>
		Sulphur Dioxide (as SO <sub>2</sub> )	IS 11255 (Part 2)	2.6 mg/Nm <sup>3</sup> to 100 mg/Nm <sup>3</sup>