

Laboratory Environment Testing Lab, Delhi to Jaipur Highway NH-8, Dharuhera,
Distt.- Rewari, Haryana

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5695 (in lieu of T-3531) **Page 1 of 3**

Validity 31.07.2017 to 30.07.2019 **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.	ATMOSPHERIC POLLUTION			
1.	Ambient Air	RSPM (PM ₁₀)	IS 5182 (P-23) (gravimetric method)	10 µg/m ³ to 500µg/m ³
		PM _{2.5}	SOP-ETL/AA/01 (gravimetric method)	10 µg/m ³ to 200µg/m ³
		Sulphur Dioxide (SO ₂)	IS 5182 (P-2) (Colorimetric method)	6 µg/m ³ to 1050 µg/m ³
		Nitrogen Dioxide (NO ₂)	IS 5182 (P-VI) (Colorimetric method)	5 µg/m ³ to 500 µg/m ³
		Ozone (O ₃)	IS-5182 (P-9) (Colorimetric method)	5 µg/m ³ to 250 µg/m ³
2.	Stack Emission	Particulate Matter	IS 11225 (P-I) (Isokinetic Sampling, gravimetric method)	10 mg/Nm ³ to 1000 mg/Nm ³
		Sulphur Dioxide (SO ₂)	IS 11255 (P-2) (IPA –Thorin Method)	3 mg/Nm ³ to 1000 mg/Nm ³
		Nitrogen Dioxide (NO _x)	IS 11255 (P-7) (Colorimetric method)	2.0 mg/Nm ³ to 400 mg/Nm ³
II.	Water			
1.	RO Water/ Ground Water	Colour	IS-3025 (P-4) (Visual Comparison Method)	5 Hazen to 50 Hazen
		Turbidity	IS-3025 (P-10) (Nephlo metric method)	1 NTU to 100 NTU
		Specific Conductivity	IS-3025 (P-14) (Wheat Stone Bridge Method)	1µS /cm to 5000 µS/cm
		pH	IS-3025(P-11) (Electrometer Method)	2 to 14
		Total Hardness	IS-3025(P-21) (EDTA Titrimetric method)	2 mg/l to 1500 mg/l

Vikas Kumar Jaiswal
Convenor

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Program Director

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		Calcium Hardness	IS-3025 (P-40) (EDTA Titrimetric Method)	2 mg/l to 1500 mg/l
		Magnesium Hardness	IS-3025 (P-46) (EDTA Titrimetric Method)	2 mg/l to 1500 mg/l
		Chloride	IS-3025 (P-32) (Argentometric Method)	2 mg/l to 1500 mg/l
		Sulphate	IS-3025 (P-24) (Turbidity/ Gravimetric Method)	2 mg/l to 100 mg/l 100 mg/l to 1500 mg/l
		Total Alkalinity	IS-3025 (P-23) (Titrimetric method)	1.0 mg/l to 1500 mg/l
		Nitrate	IS-3025 (P-34) (Chromotropic Acid Method)	1.0 mg/l to 100 mg/l
		Total Dissolved Solids (TDS)	IS-3025 (P-16) (Gravimetric Method)	10 mg/l to 5000 mg/l
		Iron	APHA 22 nd Edition (P-3111) (Phenanthroline Method)	0.05 mg/l to 10 mg/l
		Phenol	IS-3025 (P-43) 4-Amino- anti pyrine method	0.5 mg/l to 20 mg/l
		Free Residual Chlorine (FRC)	IS-3025 (P-26) (Iodometric Method)	0.1 mg/l to 5 mg/l
		Fluoride	APHA 22 nd Edition (P-4500) (Spadns Method)	0.1 mg/l to 5 mg/l
		Manganese	APHA 22 nd Edition (P-3500 Mn B) (Persulphate Method)	0.1 mg/l to 10 mg/l
2.	Cooling Water/ Construction Water/ Boiler Water	Total Alkalinity	IS-3025 (P-23) (Titrimetric method)	1.0 mg/l to 1500 mg/l
		pH	IS-3025(P-11) (Electrometer Method)	4 to 10
		Total Hardness	IS-3025(P-21) (EDTA Titrimetric method)	2 mg/l to 1500 mg/l
		Calcium Hardness	IS-3025 (P-40) (EDTA Titrimetric Method)	2 mg/l to 1500 mg/l

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		Calcium Hardness	IS-3025 (P-46) (By Calculation)	2 mg/l to 1500 mg/l
		Chloride	IS-3025 (P-32) (Argentometric Method)	2 mg/l to 1500 mg/l
		Sulphate	IS-3025 (P-24) (Turbidity/ Gravimetric Method)	2 mg/l to 100 mg/l 100 mg/l to 1500 mg/l
III.	POLLUTION & ENVIRONMENT			
1.	Waste Water (Effluents/Sewage)	Temperature	IS-3025 (P-9) (Mercury Glass Thermometer Method)	4.0°C to 50°C
		Phosphate	IS 3025 (P-31) (Stannous Chloride Method)	1.0 mg/l to 200 mg/l
		pH	IS-3025(P-11) (Electrometer Method)	2 to 14
		Total Suspended Solids (TSS)	IS-3025 (P-17) (Gravimetric Method)	10 mg/l to 500 mg/l
		Chemical Oxygen Demand (COD)	APHA 22 nd Edition (P-5220 B) (Open Refluxing Method)	5 mg/l to 10000 mg/l
		Bio- Chemical Oxygen Demand (BOD)	IS-3025 (P-44) (Oxygen depletion Method)	5 mg/l to 2500 mg/l
		Oil & Grease	IS 3025 (P-39) (Partition Gravimetric Method)	5 mg/l to 500 mg/l
		Ammonical Nitrogen	IS 3025 (P-34) (Nesslerization Method)	1.0 mg/l to 200 mg/l
		Total kjeldhal Nitrogen	IS 3025 (P-34) (Nesslerization Method)	2 mg/l to 400 mg/l