Laboratory	Environmental Analytical Laboratory, Department of Science, Technology and Environment, Puducherry Pollution Control Committee, R.S No. 189, Garage Building, Iyyanar Koil Street, Marie Oulgaret, Mettupalayam, Puducherry	
Accreditation Standard	ISO/IEC 17025: 2005	

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Validity

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SI. Product / Material Specific Test Test Method of Test Performed against which performed	d Specification Range of Testing / Ich tests are Limits of Detection
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CHEMICAL TESTING

I.	WATER			
1.	Water (Ground water, lake water, River water, Sea	pH Value@25 °C	APHA 22 nd Edition 2012, 4500-H ⁺ B Electrometric Method	2 to 12
	water)	Conductivity@25 °C	APHA 22 nd Edition 2012, 2510 B Laboratory Method	1 μS/cm to 75,000 μS/cm
		Total Suspended Solids Dried at 103-105 °C	APHA 22 nd Edition 2012, 2540 D Gravimetric Method	4 mg/l to 300 mg/l
		Turbidity	APHA 22 nd Edition 2012, 2130 B Nephelometric Method	0.1 NTU to 100 NTU
		Temperature	APHA 22 nd Edition 2012, 2550 B Laboratory and Field Method	15 °C to 50°C
		Total Dissolved Solids dried at 180°C	APHA 22 nd Edition 2012, 2540 C Gravimetric Method	4 mg/l to 50,000 mg/l
		Chloride as Cl ⁻	APHA 22 nd Edition 2012, 4500-Cl ⁻ B Argentometric Method	2 mg/l to 2,000 mg/l
		Sulphate as SO4 ²⁻	APHA 22 nd Edition 2012, 4500-SO4 ²⁻ E Turbidimetric Method	1 mg/l to 1,000 mg/l
		Oil & grease	IS 3025 (Part 39) : 1991 (RA 2014) Partition Gravimetric Method	4 mg/l to 50 mg/l

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Bio Chemical Oxygen Demand (3 days @ 27ºC)	IS 3025 (Part 44): 1993 (RA 2014)	2 mg/l to 250 mg/l
		Chemical Oxygen Demand	IS 3025 (Part 58): 2006 (RA 2012)	4 mg/l to 600 mg/l
		Phosphate as PO ₄ ³⁻ -P	APHA 22 nd Edition 2012, 4500-P D Stannous Chloride Method	0.1 mg/l to 50 mg/l
		Total Fixed Solids ignited at 550 °C	APHA 22 nd Edition 2012, 2540 E Gravimetric Method	4 mg/l to 15,000 mg/l
		Alkalinity as CaCO₃	APHA 22 nd Edition 2012, 2320 B Titration Method	4 mg/l to 2,000 mg/l
		Total Hardness as CaCO ₃	APHA 22 nd Edition 2012, 2340 C EDTA Titrimetric Method	4 mg/l to 5,000 mg/l
		Calcium hardness as CaCO ₃	APHA 22 nd Edition 2012, 3500-Ca B EDTA Titrimetric Method	4 mg/l to 5,000 mg/l
		Magnesium hardness as CaCO ₃	APHA 22 nd Edition 2012, 3500-Mg B Calculation Method	2 mg/l to 2,500 mg/l
		Calcium as Ca	APHA 22 nd Edition 2012, 3500-Ca B Calculation Method	2 mg/l to 1,000 mg/l
		Magnesium as Mg	APHA 22 nd Edition 2012, 3500-Mg B Calculation Method	2 mg/l to 500 mg/l
		Hexavalent Chromium as Cr ⁶⁺	APHA 22 nd Edition 2012, 3500-Cr B Colorimetric Method	0.05 mg/l to 10 mg/l

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Dissolved Oxygen	APHA 22 nd Edition 2012, 4500-O C Azide Modification	0.5 mg/l to 8 mg/l
II.	POLLUTION AND EN	IVIRONMENT		
1.	Liquid Effluents (Effluent water, STP water)	pH Value@25°C	APHA 22 nd Edition 2012, 4500-H ⁺ B Electrometric Method	2 to 12
		Temperature	APHA 22 nd Edition 2012, 2550 B Laboratory and Field Method	15 °C to 100 °C
		Total Suspended Solids Dried at 103-105⁰C	APHA 22 nd Edition 2012, 2540 D Gravimetric Method	4 mg/l to 600 mg/l
		Total Dissolved solids Dried at 180°C	APHA 22 nd Edition 2012, 2540 C Gravimetric Method	4 mg/l to 50,000 mg/l
		Chloride as Cl ⁻	APHA 22 nd Edition 2012, 4500-Cl ⁻ B Argentometric Method	1 mg/l to 10,000 mg/l
		Sulphate as SO4 ²⁻	APHA 22 nd Edition 2012, 4500-SO₄ ²⁻ E Turbidimetric Method	2 mg/l to 5,000 mg/l
		Oil & grease	IS 3025 (Part 39): 1991 (RA 2014) Partition Gravimetric Method	4 mg/l to 1,000 mg/l
		Bio Chemical Oxygen Demand (3 days @ 27ºC)	IS 3025 (Part 44): 1993 (RA 2014)	2 mg/l to 50,000 mg/l
		Chemical Oxygen Demand	IS 3025 (Part 58): 2006 (RA 2012)	4 mg/l to 1,00,000 mg/l

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Phosphate as PO ₄ ³⁻ -P	APHA 22 nd Edition 2012, 4500-P D Stannous Chloride Method	0.1 mg/l to 50 mg/l
		Chlorine, Residual	IS 3025 (Part 26): 1986 (RA 2014)	0.1 mg/l to 10 mg/l
		Hexavalent Chromium as Cr ⁶⁺	APHA 22 nd Edition 2012, 3500-Cr B Colorimetric Method	0.05 mg/l to 100 mg/l
III.	ATMOSPHERIC POI	LUTION		
1.	Ambient Air	Respirable Particulate Matter (size less than 10µm) or PM 10	IS 5182 (Part 23): 2006 (RA 2012) Cyclonic Flow Technique	10 µg/m³ to 1,000 µg/m³
		Sulphur Dioxide (as SO ₂)	IS 5182 (Part 2): 2001 (RA 2012)	4 μg/m³ to 200 μg/m³
		Nitrogen Dioxide (as NO ₂)	IS 5182 (Part 6): 2006 (RA 2012)	9 μg/m³ to 400 μg/m³
2.	Stack Emission	Particulate Matter (PM)	IS 11255 (Part 1): 1985 (RA 2014)	5 mg/Nm ³ to 400 mg/Nm ³
		Sulphur Dioxide (as SO ₂)	IS 11255 (Part 2): 1985 (RA 2014)	4 mg/Nm ³ to 500 mg/Nm ³
		Nitrogen Dioxide (as NO _x)	IS 11255 (Part 7): 2005 (RA 2012)	4 mg/Nm ³ to 1,000 mg/Nm ³
		Flow Rate	IS 11255 (Part 3): 2008 (RA 2013)	10 Nm ³ /hr to 60,000 Nm ³ /hr
		Temperature	-	25 °C to 500 °C
			10,0000,4004	1 m/s to 30 m/s
J.	(Industrial, Ambient, Noise)	INOISE IEVEI (Leq, Lmax, Lmin)	(RA 2014)	30 aB(A) to 131 aB(A)