Board, No. 1/276, Meyyanur Main Road, "Siva Tower", Illrd Floor,

Salem, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6874 Page 1 of 5

Validity 07.02.2018 to 06.02.2020 Last Amended on --

SI.	Product / Material	Specific Test	Test Method Specification	Range of Testing /	i
٠.,	i i oddet / iviateriai	, opecine rest	rest method opecinication	, italige of resting i	
		Danfanna ad	I amalmat militale ta ata ana	Limite of Detection	1
	of Test	Performed	against which tests are	Limits of Detection	
		1	1	1	
	•			•	

CHEMICAL TESTING

l.	WATER			
1	Water (Ground	pH Value @25°C	APHA 23 rd Edn- 4500 H ⁺	2 to 12
	Water, Lake water, River water)	Conductivity @25°C	APHA 23 rd Edn- 2510 B	2 μs/cm to 25000 μs/cm
		Total Solids	APHA 23 rd Edn- 2540B	4 mg/L to 25000 mg/L
		Total Suspended Solids @105°C	APHA 23 rd Edn- 2540 D	4 mg/L to 400 mg/L
		Total Dissolved solids @180°C	APHA 23 rd Edn- 2540 C	4 mg/L to 25000 mg/L
		Chloride as Cl	APHA 23 rd Edn- 4500 CI B	5 mg/L to 12000 mg/L
		Sulphate as SO₄	APHA 23 rd Edn- 4500 SO₄ E	5 mg/L to 8000 mg/L
		Oil & grease	APHA 23 rd Edn- 5520 B	4 mg/L to 20 mg/L
		Bio Chemical Oxygen Demand (3 days @ 27°C)	IS 3025 (Part 44)	2 mg/L to 100 mg/L
		Chemical Oxygen Demand	АРНА 23 rd Edn- 5220 В	8 mg/L to 400 mg/L
		Ammonical nitrogen as NH ₃ -N	APHA 23 rd Edn- 4500-NH₃C	2 mg/L to 100 mg/L
		Total Kjeldahl Nitrogen	APHA 23 rd Edn- 4500-N _{org} -B	2 mg/L to 100 mg/L
		Nitrite nitrogen as NO ₂ - ₋ N	APHA 23 rd Edn-4500 NO ₂ -B	0.05 mg/L to 10 mg/L
		Nitrate nitrogen as NO ₃ -N	APHA 23 rd Edn- 4500 NO ₃ -B	1.0 mg/L to 50 mg/L

Iti Saxena Convenor

Board, No. 1/276, Meyyanur Main Road, "Siva Tower", Illrd Floor,

Salem, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6874 Page 2 of 5

Validity 07.02.2018 to 06.02.2020 Last Amended on --

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are	Range of Testing / Limits of Detection
		Total Volatile Solids @550°C	APHA 23 rd Edn- 2540 E	10 mg/L to 100 mg/L
		Total fixed Solids @550°C	APHA 23 rd Edn- 2540 E	10v to 100 mg/L
		Fluoride as F	APHA 23 rd Edn- 4500- F B,D	0.2 mg/L to 10 mg/L
		Alkalinity as CaCO ₃	APHA 23 rd Edn- 2320-B	1 mg/L to 500 mg/L
		Acidity as CaCO ₃	APHA 23 rd Edn- 2310-B	1 mg/L to 50 mg/L
		Total Hardness as CaCO₃	APHA 23 rd Edn- 2340 C	5v to 2000 mg/L
		Calcium hardness as CaCO₃	APHA 23 rd Edn- 3500 Ca	5 mg/L to 1000 mg/L
		Magnesium hardness as CaCO₃	APHA 23 rd Edn- 3500 Mg- B	5 mg/L to 800 mg/L
		Calcium as Ca	APHA 23 rd Edn- 3500 Ca B	5 mg/L to 700 mg/L
		Magnesium as Mg	APHA 23 rd Edn- 3500 Mg	4 mg/L to 500 mg/L
		Sodium as Na	APHA 23 rd Edn- 3500 Na- B	5 mg/L to 1000 mg/L
		Potassium as K	APHA 23 rd Edn- 3500 K-B	5 vto 200 mg/L
		Hexavalent Chromium as Cr ⁶⁺	APHA 23 rd Edn- 3500 Cr B	0.05 mg/L to 5.0 mg/L
		Total Chromium as Cr	APHA 23 rd Edn- 3500 Cr B	0.05 mg/L to 10.0 mg/L
		Dissolved Oxygen	APHA 23 rd Edn- 4500 O C	1 mg/L to 8 mg/L
		Cyanide as CN	APHA 23 rd Edn- 4500 C N E	0.05 mg/L to 1.0 mg/L
, ! !		Phosphate as PO₄		0.5 mg/L to 20.0 mg/L
, ! !		Total Iron as Fe	APHA 23 rd Edn- 3500 Fe B	0.05 mg/L to 10 mg/L
		Phenolic Compounds as C ₆ H₅OH	APHA 23 rd Edn- 5530 C	0.05 mg/L to 5 mg/L
II.	POLLUTION AND EN	NVIRONMENT		

Iti Saxena Convenor Alok Jain Program Director

Board, No. 1/276, Meyyanur Main Road, "Siva Tower", Illrd Floor,

Salem, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6874 Page 3 of 5

Validity 07.02.2018 to 06.02.2020 Last Amended on --

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are	Range of Testing / Limits of Detection
1.	Liquid Effluents	pH Value@25°C		2 to 12
	(Effluent water,	Conductivity@25°C	APHA 23 rd Edn-2510 B	1 μS/cm to 100000 μS/cm
	STP water, Waste	Total Solids	APHA 23 rd Edn- 2540 B	4 mg/L to 100000 mg/L
	water, Treated water)	Total Suspended Solids@105°C	APHA 23 rd Edn- 2540 D	4 mg/L to 25000 mg/L
		Total Dissolved solids @180°C	APHA 23 rd Edn- 2540 C	4 mg/L to 60000 mg/L
		Chloride as Cl	APHA 23 rd Edn- 4500 CI B	2 mg/L to 20000 mg/L
,		Sulphate as SO₄	APHA 23 rd Edn- 4500 SO₄ E	5 mg/L to 10000 mg/L
 		Phosphate as PO₄	APHA 23 rd Edn- 4500 P E	0.5 mg/L to 100 mg/L
 		Oil & grease	APHA 23 rd Edn- 5520 B	4 mg/L to 200 mg/L
 		Bio chemical oxygen	IS 3025 (Part 44)	2 mg/L to 60000 mg/L
		demand (3 days @ 27°C)		
		Chemical Oxygen Demand	APHA 23 rd Edn- 5220 B	8 mg/L to 50000 mg/L
		Ammonical nitrogen as NH ₃ -N	APHA 23 rd Edn- 4500 NH₃	2 mg/L to 500 mg/L
		Total Kjeldahl Nitrogen	APHA 23 rd Edn- 4500 N B	2 mg/L to 500 mg/L
		Nitrite Nitrogen as NO₂-N	APHA 23 rd Edn- NO ₂ B	0.05 mg/L to 10 mg/L
		Nitrate Nitrogen as NO₃-N	APHA 23 rd Edn- NO₃ B	1.0 mg/L to 400 mg/L
 		Total Volatile Solids@550°C	APHA 23 rd Edn- 2540 E	10 mg/L to 10000 mg/L
		Total Fixed Solids@550°C	APHA 23 rd Edn- 2540 E	10 mg/L to 25000 mg/L
} 		Fluoride as F	APHA 23 rd Edn- 4500 F B D	0.2 mg/L to 50 mg/L
 		Alkalinity as CaCO ₃		1 mg/L to 10000 mg/L
, 1 1		Acidity as CaCO₃	APHA 23 rd Edn- 2310 B	1 mg/L to 5000 mg/L

Iti Saxena Convenor Alok Jain Program Director

Board, No. 1/276, Meyyanur Main Road, "Siva Tower", Illrd Floor,

Salem, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6874 Page 4 of 5

Validity 07.02.2018 to 06.02.2020 Last Amended on --

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are	Range of Testing / Limits of Detection
		Total Hardness as CaCO₃	A₱HA 23 rd Edn- 2340 C	5 mg/L to 10000 mg/L
		Calcium hardness as CaCO ₃	APHA 23 rd Edn- 3500 Ca	5 mg/L to 5000 mg/L
	Magnesium hardness as CaCO₃		APHA 23 rd Edn- 3500 Mg B	5 mg/L to 5000 mg/L
		Calcium as Ca	APHA 23 rd Edn- 3500 Ca	5 mg/L to 3000 mg/L
		Magnesium as Mg	APHA 23 rd Edn- 3500 Mg	5 mg/L to 3000 mg/L
		Sodium as Na	APHA 23 rd Edn- 3500 Na B	5 mg/L to 1000 mg/L
		Potassium as K	APHA 23 rd Edn- 3500 K B	5 mg/L to 1000 mg/L
		Hexavalent Chromium as Cr ⁶⁺	APHA 23 rd Edn- 3500 Cr B	0.05 mg/L to 100 mg/L
		Total Chromium as Cr	APHA 23 rd Edn- 3500 Cr D	0.05 mg/L to 100 mg/L
1		Dissolved Oxygen	APHA 23 rd Edn- 4500 C	1 mg/L to 8 mg/L
		Percent Sodium	TNPCB/AEL-SLM/SOP/35 Issue No.1 / Date 25.04.14	5% to 95 %
1		Cyanide as CN	APHA 23 rd Edn- 4500 C N E	0.05 mg/L to 5.0 mg/L
		Total Iron as Fe	APHA 23 rd Edn- 3500 Fe B	0.05 mg/L to 10.0 mg/L
1		Phenolic Compounds	APHA 23 rd Edn- 5530 C	0.05 mg/L to 5 mg/L
III.	ATMOSPHERIC POL	LUTION		
1.	Ambient Air Monitoring	Respirable Suspended Particulate Matter (PM ₁₀)	IS 5182 (Part 23)	5 μg/m³to 400 μg/m³
		Sulphur Dioxide (as SO₂)	IS 5182 (Part 2)	4 μg/m³ to 50 μg/m³
		Oxides of Nitrogen	IS 5182: (Part 6)	9 μg/m³ to 80 μg/m³

Iti Saxena Convenor Alok Jain Program Director

Board, No. 1/276, Meyyanur Main Road, "Siva Tower", Illrd Floor,

Salem, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6874 Page 5 of 5

Validity 07.02.2018 to 06.02.2020 Last Amended on --

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are	Range of Testing / Limits of Detection
	I I	(as NO _x)	1	
2.	Stack Emission Monitor	Particulate Matter	IS 11255 (Part I)	5 mg/Nm³ to 5000 mg/Nm³
3.	Sound Level (Industrial Ambient Noise)	Sound level (Leq)	IS 9989	30 dB(A) to 130 dB(A)

Iti Saxena Convenor