

Laboratory

EAU Chemical Mfg. Pvt. Ltd. (Laboratory Service Division), No. 90 A,
Ambal Nagar, Main Road, Keelkattalai, Chennai, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5730

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Validity 29.05.2017 to 28.05.2019

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.	WATER			
1.	Water (Potable & Domestic, Bore water, Saline water, Industrial &Boiler /Cooling purpose)	pH Value	APHA 22 nd Edition 2012 4500-H ⁺ B [Electrometric Method]	2 to 13
		Electrical Conductivity	APHA 22 nd Edition 2012 2510 B [Laboratory Method]	1 µs/cm to 50000 µs/cm
		Turbidity	APHA 22 nd Edition 2012 2130B [Nephelometric Method]	1 NTU to 1000 NTU
		Total Suspended Solids	APHA 22 nd Edition 2012 2540 D [@103-105°C]	2 mg/L to 20000 mg/L
		Total Dissolved Solids	APHA 22 nd Edition 2012 2540 C [@180°C]	2 mg/L to 30000 mg/L
		Total Solids	APHA 22 nd Edition 2012 2540 B [@103-105°C]	2 mg/L to 30000 mg/L
		Phenolphthalein Alkalinity as CaCO ₃	APHA 22 nd Edition 2012 2320 B [Titration Method]	2 mg/L to 3000 mg/L
		Total Alkalinity as CaCO ₃	APHA 22 nd Edition 2012 2320 B [Titration Method]	2 mg/L to 5000 mg/L
		Total Hardness as CaCO ₃	APHA 22 nd Edition 2012 2340 C [EDTA Titrimetric Method]	2 mg/L to 5000 mg/L
		Calcium as Ca	APHA 22 nd Edition 2012 3500-Ca B [EDTA Titrimetric Method]	1 mg/L to 2000 mg/L
		Magnesium as Mg	APHA 22 nd Edition 2012 3500 Mg B. [Calculation Method]	1 mg/L to 2000 mg/L
		Chloride as Cl ⁻	APHA 22 nd Edition 2012 4500 Cl ⁻ B [Argentometric Method]	1 mg/L to 10000 mg/L

K. Soundirapandian
Convenor

N. Venkateswaran
Program Director

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		Total Acidity as CaCO ₃	APHA 22nd Edition 2012 2310 B [Titration Method]	2 mg/L to 2000 mg/L
		Total Iron as Fe	APHA 22nd Edition 2012 3500-Fe B [Phenanthroline Method]	0.01 mg/L to 20 mg/L
		Dissolved Iron as Fe	APHA 22nd Edition 2012 3500-Fe B [Phenanthroline Method]	0.01 mg/L to 20 mg/L
		Reactive Silica as SiO ₂	APHA 22nd Edition 2012 4500-SiO ₂ C,D [Molybdosilicate Method, Heteropoly Blue Method]	0.02 mg/L to 500 mg/L
		Sulphate as SO ₄ ²⁻	APHA 22 nd Edition 2015 4500 SO ₄ ²⁻ E [Turbidimetric Method]	5 mg/L to 10000 mg/L
		Sulphite as SO ₃ ²⁻	APHA 22nd Edition 2012 4500 SO ₃ ²⁻ B [Iodometric Method]	0.5 mg/L to 50 mg/L
		Total Phosphate as PO ₄	APHA 22nd Edition 2012 4500-P D [Stannous Chloride Method]	0.05 mg/L to 100 mg/L
		Ortho Phosphate as PO ₄	APHA 22nd Edition 2012 4500-P D [Stannous Chloride Method]	0.05 mg/L to 100 mg/L
		Free Residual Chlorine as Cl ₂	APHA 22nd Edition 2012 4500-Cl B [Iodometric Method]	0.2 mg/L to 500 mg/L
		Nitrate Nitrogen as NO ₃	IS 3025(Part 34)-1988 RA-2003	0.1 mg/L to 200 mg/L
II.	POLLUTION AND EFFLUENTS			
1.	Waste water	pH Value	APHA 22 nd Edition 2012 4500-H ⁺ B [Electrometric Method]	1 to 13

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		Electrical Conductivity	APHA 22 nd Edition 2012 2510 B [Laboratory Method]	1 µs/cm to 50000 µs/cm
		Turbidity	APHA 22 nd Edition 2012 2130B [Nephelometric Method]	1 NTU to 1000 NTU
		Total Suspended Solids	APHA 22 nd Edition 2012 2540 D [@103-105°C]	2 mg/L to 20000 mg/L
		Total Dissolved Solids	APHA 22 nd Edition 2012 2540 C [@180°C]	2 mg/L to 30000 mg/L
		Total Solids	APHA 22 nd Edition 2012 2540 B [@103-105°C]	2 mg/L to 30000 mg/L
		Phenolphthalein Alkalinity as CaCO ₃	APHA 22 nd Edition 2012 2320 B [Titration Method]	2 mg/L to 3000 mg/L
		Total Alkalinity as CaCO ₃	APHA 22 nd Edition 2012 2320 B [Titration Method]	2 t mg/L o 5000 mg/L
		Total Hardness as CaCO ₃	APHA 22 nd Edition 2012 2340 C [EDTA Titrimetric Method]	2 mg/L to 5000 mg/L
		Calcium as Ca	APHA 22 nd Edition 2012 3500-Ca B [EDTA Titrimetric Method]	1 mg/L to 2000 mg/L
		Magnesium as Mg	APHA 22 nd Edition 2012 3500 Mg B. [Calculation Method]	1 mg/L to 2000 mg/L
		Chloride as Cl ⁻	APHA 22 nd Edition 2012 4500 Cl ⁻ B [Argentometric Method]	1 mg/L to 10000 mg/L
		Total Acidity as CaCO ₃	APHA 22 nd Edition 2012 2310 B [Titration Method]	2 mg/L to 2000 mg/L
		Total Iron as Fe	APHA 22 nd Edition 2012 3500-Fe B [Phenanthroline Method]	0.01 mg/L to 20 mg/L
		Dissolved Iron as Fe	APHA 22 nd Edition 2012 3500-Fe B [Phenanthroline Method]	0.01 mg/L to 20 mg/L

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		Reactive Silica as SiO ₂	APHA 22nd Edition 2012 4500-SiO ₂ C,D [Molybdosilicate Method, Heteropoly Blue Method]	0.02 mg/L to 500 mg/L
		Sulphate as SO ₄ ²⁻	APHA 22 nd Edition 2015 4500 SO ₄ ²⁻ E [Turbidimetric Method]	5 mg/L to 10000 mg/L
		Sulphite as SO ₃ ²⁻	APHA 22nd Edition 2012 4500 SO ₃ ²⁻ B [Iodometric Method]	0.5 mg/L to 50 mg/L
		Total Phosphate as PO ₄	APHA 22nd Edition 2012 4500-P D [Stannous Chloride Method]	0.05 mg/L to 100 mg/L
		Ortho Phosphate as PO ₄	APHA 22nd Edition 2012 4500-P D [Stannous Chloride Method]	0.05 mg/L to 100 mg/L
		Free Residual Chlorine as Cl ₂	APHA 22nd Edition 2012 4500-Cl B [Iodometric Method]	0.2 mg/L to 500 mg/L
		Nitrate Nitrogen as NO ₃	IS 3025 (Part 34)-1988 RA-2003	0.1 mg/L to 200 mg/L
		Chemical Oxygen Demand (COD)	APHA 22nd Edition 2012 5220 B [Open Reflux Method]	4 mg/L to 50000 mg/L
		Biological Oxygen Demand (BOD)	APHA 22nd Edition 2012 5210 B [5-days BOD Test]	2 mg/L to 20000 mg/L
		Oil and Grease	APHA 22nd Edition 2012 5520 B [Liquid-Liquid, Partition-Gravimetric Method]	1 mg/L to 10000 mg/L
		Ammonia Nitrogen as NH ₃ -N	APHA 22nd Edition 2012 4500- NH ₃ C [Titrimetric Method]	0.5 mg/L to 5000 mg/L

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