

Laboratory Water Testing Laboratory, Public Health Division, Public Works Department, Kurusukuppam, Puducherry

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7580 (in lieu of T-4139)

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Validity 22.09.2018 to 21.09.2020

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.	Drinking Water/ Bore Well Water/ Surface Water	Electrical Conductivity @ 25 °C	APHA 23rd Edition, 2017, 2510 B	1 µS/cm to 20000 µS/cm
		pH@ 25 °C	APHA 23rd Edition, 2017, 4500-H ⁺ B	2 to 12
		Total Dissolved Solids	APHA 23rd Edition, 2017, 2540 C	5 mg/l to 10000 mg/l
		Alkalinity to Phenolphthalein as CaCO ₃	APHA 23rd Edition, 2017, 2310 B	2.0 mg/l to 1000 mg/l
		Total Alkalinity as CaCO ₃	APHA 23rd Edition, 2017, 2320 B	2.0 mg/l to 1500 mg/l
		Total Hardness as CaCO ₃	APHA 23rd Edition, 2017, 2340 C	2 mg/l to 3000 mg/l
		Chemical Oxygen Demand	APHA 23rd Edition, 2017, 5220 C	2 mg/l to 1000 mg/l
		Sodium as Na	APHA 23rd Edition, 2017, 3500-Na B	2 mg/l to 1000 mg/l
		Calcium as Ca	APHA 23rd Edition, 2017, 3500-Ca B	0.5 mg/l to 1000 mg/l
		Magnesium as Mg	APHA 23rd Edition, 2017, 3500-Mg B	0.5 mg/l to 500 mg/l
		Potassium as K	APHA 23rd Edition, 2017, 3500-K B	2 mg/l to 1000 mg/l
		Iron as Fe	APHA 23rd Edition, 2017, 3500 Fe B	0.1 mg/l to 25 mg/l
		Chloride as Cl	APHA 23rd Edition, 2017, 4500-Cl B	2.0 mg/l to 2500 mg/l
		Sulphate as SO ₄	APHA 23rd Edition, 2017, 4500-SO ₄ E	5.0 mg/l to 1500 mg/l

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		Nitrate as NO ₃	PWDWTL/SOP/06 Issue No . 01 dt 24.09.2015	5.0 mg/l to 200 mg/l
		Fluoride as F	APHA 23rd Edition, 2017, 4500-F D	0.1 mg/l to 5.0 mg/l
		Total Reactive Phosphate as PO ₄	APHA 23rd Edition, 2017, 4500-P C	0.2 mg/l to 50 mg/l
		Reactive Silica as SiO ₂	APHA 23rd Edition, 2017, 4500-SiO ₂ D	0.5 mg/l to 125 mg/l
		Turbidity as NTU	APHA 23rd Edition, 2017, 2130 B	0.5 NTU to 100 NTU
II.	POLLUTION & ENVIRONMENT			
1.	Waste Water (Sewage/ Effluents)	Electrical Conductivity @ 25 °C	APHA 23rd Edition, 2017, 2510 B	1 µS/cm to 20000 µS/cm
		pH@ 25 °C	APHA 23rd Edition, 2017, 4500-H ⁺ B	2 to 12
		Total Dissolved Solids	APHA 23rd Edition, 2017, 2540 C	5 mg/l to 10000 mg/l
		Total Suspended Solids	APHA 23rd Edition, 2017, 2540 D	10 mg/l to 10000 mg/l
		Settleable solids	APHA 23rd Edition, 2017, 2540 F	1.0 ml/l to 500 ml/l
		Dissolved Oxygen	APHA 23rd Edition, 2017, 4500-O B	0.5 mg/l to 8 mg/l
		Biological Oxygen Demand @ 27 °C for 3 days	IS 3025 (Part 44): 1994 (RA 2014)	2 mg/l to 5000 mg/l
		Chemical Oxygen Demand	APHA 23rd Edition, 2017, 5220 B (Open reflux method)	2 mg/l to 40000 mg/l
		Total Phosphate as PO ₄	APHA 23rd Edition, 2017, 4500-P B,C	0.2 mg/l to 100 mg/l