

Laboratory Upper Cauvery Water Quality Laboratory, Central Water Commission,
Cauvery Division, Jalasouda, Jalahalli, Bengaluru, Karnataka

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7793

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Validity 30.08.2018 to 29.08.2020

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.	Surface Water (River Water)	pH	APHA23 rd Edn.2017 -- 4500H ⁺ B (Electrometric Method)	2 to 12
		Conductivity	APHA23 rd Edn.2017 -- 2510 B (Laboratory Method)	1 µS/cm to 5000 µS/cm
		Total Hardness as CaCO ₃	APHA23 rd Edn.2017 -- 2340 C (EDTA Titrimetric Method)	5 mg/L to 1500 mg/L
		Calcium as Ca ⁺²	APHA23 rd Edn.2017 -- 3500Ca - B (EDTA Titrimetric Method)	2 mg/L to 500 mg/L
		Magnesium as Mg ⁺²	APHA23 rd Edn.2017 -- 3500Mg - B (Calculation Method)	2 mg/L to 500 mg/L
		Total alkalinity as CaCO ₃	APHA23 rd Edn.2017 -- 2320 B (Titration Method)	10 mg/L to 1000 mg/L
		Chloride as Cl	APHA23 rd Edn.2017 -- 4500Cl ⁻ B (Argentometric Method)	5 mg/L to 2000 mg/L
		Biological Oxygen Demand	APHA23 rd Edn.2017 -- 5210 B (@20°C; 5 day BOD Test Method)	1 mg/L to 500 mg/L
		Dissolved Oxygen	APHA23 rd Edn.2017 -- 4500, O-C (Azide Modification Method)	1 mg/L to 10 mg/L
		Nitrate as NO ₃ ⁻	APHA23 rd Edn.2017 -- 4500 NO ₃ ⁻ D (Nitrate Electrode Method)	0.5 mg/L to 250 mg/L

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		Fluoride as F ⁻	APHA23 rd Edn.2017 -- 4500 F ⁻ C (ISE method)	0.1 mg/L to 20 mg/L
		Sodium as Na ⁺	APHA23 rd Edn.2017 -- 3500 Na-B (Flame Emission Photometric Method)	5 mg/L to 500 mg/L
		Potassium as K ⁺	APHA23 rd Edn.2017 -- 3500 K-B (Flame Emission Photometric Method)	1 mg/L to 200 mg/L
		Chemical Oxygen Demand	APHA23 rd Edn.2017 -- 5220 -D (Closed Reflux Colorimetric Method)	2 mg/L to 300 mg/L

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