

Laboratory Lotus Water Testing & Analytical Laboratory, Plot No.6, Gandhar
S. No. 27/3, Hingane (Kh) Sinhgad Road, Pune, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6761 **Page 1 of 2**

Validity 12.01.2018 to 11.01.2020 **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, Ground Water, Drinking Water, Irrigation Water	pH	APHA 23 rd Ed. 4500 -H+B	01 to 10
		Conductivity	APHA 23 rd Ed. 2510 B	1 µS/cm to 2000 µS/cm
		Total Hardness as CaCO ₃	APHA 23 rd Ed. 2340 C	1 mg/l to 1000 mg/l
		Calcium Hardness as CaCO ₃	APHA 23 rd Ed. 3500 -Ca B	1 mg/l to 1000 mg/l
		Chloride as Cl	APHA 23 RD Ed. 4500 -Cl-C	1 mg/l to 500 mg/l
		Sodium as Na	APHA 23 rd Ed. 3500 -Na B	1 mg/l to 100 mg/l
		Potassium As K	APHA 23 rd Ed. 3500-K B	1 mg/l to 100 mg/l
		Alkalinity as CaCO ₃	APHA 23 rd Ed. 2320 B	1 mg/l to 500 mg/l
		Phosphate as PO ₄	APHA 23 rd Ed. 4500 - P D	0.5 mg/l to 20 mg/l
		Sulfate as SO ₄	APHA 23 rd Ed. 4500 -SO ₄ - - E	1 mg/l to 50 mg/l
			Iron as Fe	APHA 22 nd Ed. 3500 -Fe B
	Chemical Oxygen Demand	APHA 23 rd Ed. 5220 C	10 mg O ₂ /l to 300 mg O ₂ /l	
	Biological Oxygen Demand	IS 3025 (PART 44) RA 2003	10 mg O ₂ /l to 100 mg O ₂ /l	
2.	Industrial Water			
	Boiler Water DM Water	pH	APHA 23 rd Ed. 4500 -H+B	01 to 10
		Conductivity	APHA 23 rd Ed. 2510 B	0.5 µS/cm to 2000 µS/cm
		Silica as SiO ₂	APHA 23 rd Ed. 4500 -SiO ₂ D	0.02 mg/l to 10 mg/l
		Phosphate as PO ₄	APHA 23 rd Ed. 4500 - P D	0.5 mg/l to 20 mg/l
		Iron as Fe	APHA 23 rd Ed. 3500 -Fe B	0.005 mg/l to 5 mg/l
		Alkalinity as CaCO ₃	APHA 23 rd Ed. 2320 B	1 mg/l to 500 mg/l
		Sodium as Na	APHA 23 rd ED. 3500 -Na B	1 mg/l to 50 mg/l

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		Sulfate as SO ₄	APHA 23 rd Ed. 4500 -SO ₄ - - E	1 mg/l to 50 mg/l
3.	Construction Water	pH	APHA 23 rd Ed. 4500 -H+B	01 to 14
		TDS	APHA 23 rd Ed. 2540 B	5 mg/l to 2000 mg/l
		Chloride as Cl	APHA 23 rd Ed. 4500 -Cl- C	1 mg/l to 1000 mg/l
		Acidity	IS 456 - 2000	1ml to 100 ml (ml of 0.02 normal H ₂ SO ₄ required to neutralize 100 ml of water sample)
		Alkalinity	IS 456 - 2000	1ml to 50 ml (ml of 0.02 normal NaOH require to neutralize 100 ml of water sample)
II.	POLLUTION & ENVIRONMENT			
1.	Waste Water (Effluents/Sewage)	pH	APHA 23 rd Ed. 4500 -H+B	01 to 10
		TDS	APHA 23 rd Ed. 2540 B	100 mg/l to 2500 mg/l
		Chlorides as Cl	APHA 23 rd Ed. 4500 -Cl- C	1 mg/l to 1000 mg/l
		Alkalinity as CaCO ₃	APHA 23 rd Ed. 2320 B	1 mg/l to 1000 mg/l
		Suspended Solids	APHA 23 rd Ed. 2540 D	10 mg/l to 100 mg/l
		Chemical Oxygen Demand	APHA 23 rd Ed. 5220 C	10 mg O ₂ /l to 500 mg O ₂ /l
		Biological Oxygen Demand	IS 3025 (PART 44) RA 2003	10 mg O ₂ /l to 250 mg O ₂ /l