

Laboratory **Dakshin Raipur Water Treatment Plant Laboratory, Dongaria, South 24 Paraganas, West Bengal**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-7290 (in lieu of T-3938)**

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Validity **13.05.2018 to 12.05.2020**

Last Amended on **18.05.2018**

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.	Potable and Domestic Water	pH	IS 3025 (Part 11): 1983, RA 2017 Electrometric method	2 to 13
		Total Dissolved Solids	IS 3025 (Part 16): 1984 RA 2017	10 mg/l to 2000 mg/l
		Iron (as Fe)	IS 3025 (Part 53): 2003 RA 2014 1-10 Phenanthroline Method	0.03 mg/l to 5 mg/l
			APHA 23 rd Edition 2017, 3120 B ICP-OES	0.05 mg/l to 5 mg/l
		Turbidity	IS 3025 (Part 10): 1984 RA 2017 Nephelometric Turbidity Meter	0.1 NTU to 1000 NTU
		Manganese (as Mn)	APHA 23 rd Edition 2017, 3500-Mn B Persulfate method	0.1 mg/l to 2 mg/l
			APHA 23 rd Edition 2017, 3120 B ICP-OES	0.05 mg/l to 2 mg/l
		Fluoride (as F)	APHA 23 rd Edition 2017, 4500-F C Ion selective Electrode Method	0.1 mg/l to 15 mg/l
		Chloride (as Cl)	IS 3025 (Part 32): 1988 RA 2014 Argentometric Method	2.5 mg/l to 1000 mg/l
		Alkalinity (as CaCO ₃)	IS 3025 (Part 23): 1986 RA 2014 Indicator Method	2 mg/l to 1000 mg/l
		Arsenic (as As)	IS : 3025 (Part 37): 1988 RA 2014 Silver Diethyl Dithiocarbamate method	0.01 mg/l to 1 mg/l
			APHA, 23 rd Edition 2017, 3120 B ICP-OES	0.005 mg/l to 2 mg/l
	Residual Free Chlorine	IS 3025 (Part 26): 1986 RA 2014 Iodometric Method	1 mg/l to 5 mg/l	
	Total Hardness (as CaCO ₃)	IS 3025 (Part 21): 1983 RA 2014 EDTA Titrimetric Method	2 mg/l to 1000 mg/l	

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		Copper (as Cu)	APHA, 23 rd Edition 2017, 3120 B ICP-OES	0.01 mg/l to 2 mg/l
		Lead (as Pb)	APHA 23 rd Edition 2017, 3120 B ICP-OES	0.01 mg/l to 2 mg/l
		Zinc (as Zn)	APHA 23 rd Edition 2017, 3120 B ICP-OES	0.05 mg/l to 20 mg/l
		Nickel (as Ni)	APHA 23 rd Edition 2017, 3120 B ICP-OES	0.01 mg/l to 2 mg/l
		Total Chromium (as Cr)	APHA 23 rd Edition 2017, 3120 B ICP-OES	0.01 mg/l to 2 mg/l