

Laboratory Town Laboratory, Water Management, JUSCO, Jamshedpur Utilities & Services Company Ltd. (JUSCO), Sakchi Boulevard Road, Northern Town, Bistupur, Jamshedpur, Jharkhand

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 19.05.2016

Certificate Number T-1265 **Valid Until** 18.05.2018

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. WATER				
1.	Raw Water, Potable Water	Fluoride	APHA (22 nd Edition) 4500F-E: 2012 Standard Methods	0.1 mg/l to 2.0 mg/l
		Nitrate	IS 7890-1: 1986	0.4 mg/l to 22.1 mg/l
		Aluminium	APHA (22 nd Edition) 3500Al-D: 2012 Standard Methods	0.02 mg/l to 0.2 mg/l
		Sulphate	APHA (22 nd Edition) 4500 SO ₄ ²⁻ E: 2012 Standard Methods	5.0 mg/l to 250 mg/l
		Cyanide	EPA 335.2: 1980	0.01 mg/l to 0.1 mg/l
		Chromium	APHA (22 nd Edition) 3500-Cr D: 2012 Standard Methods	0.03 mg/l to 0.6 mg/l
		Copper	As per Doc no-TL/WATER/CHEM/007, Issue. 00.01, Issue Dated. 20.02.12	0.02 mg/l to 1.2 mg/l
		Cadmium	As per Doc no-TL/WATER/CHEM/008, Issue. 00.00, Issue Dated. 01.02.06	0.025 mg/l to 1.0 mg/l
		Chloride	IS 3025: 1988 (Part 32)	2.5 mg/l to 50.0 mg/l
Nickel	APHA (22 nd Edition) 3500 Ni-E: 2012 Standard Methods	0.05 mg/l to 1.0 mg/l		

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	Raw Water, Potable Water	Iron	APHA (22 nd Edition) 3500 Fe –D: 2012 Standard Methods	0.03 mg/l to 1.0 mg/l
		Lead	As per Doc no-TL/WATER/CHEM/012, Issue. 00.00, Issue Dated. 01.02.06	0.01 mg/l to 1.0 mg/l
		Zinc	As per Doc no-TL/WATER/CHEM/013, Issue. 00.00, Issue Dated. 01.02.06	0.05 mg/l to 2.5 mg/l
		Turbidity	IS 3025 (Part 10): 1984	0.1 NTU to 800 NTU
		Colour (Hazen)	IS 3025 (Part 4): 1983	0.5 Hazen to 50.0 Hazen
		pH	IS 3025 (Part 11): 1983	2.0 to 13.0
		Total Dissolved Solid	IS 3025 (Part 16): 1984	20 mg/l to 500 mg/l
		Total Hardness	IS 3025 (Part 21): 1983	20 mg/l to 500 mg/l
		Alkalinity	IS 3025 (Part 23): 1986	20 mg/l to 500 mg/l
		Nitrite (NO ₂)	IS 3025 (Part 34): 1988 Nitrogen	0.01 mg/l to 2.0 mg/l
		Conductivity	IS 3025 (Part 14): 1984	2 µS/cm to 1000 µS/cm
		Free Chlorine	IS 3025 (Part 26): 1986	0.1 mg/l to 2.0 mg/l
		Arsenic	APHA (22 nd Edition) 3500 As: 2012 Standard Methods	0.01 mg/l to 0.05 mg/l
		Calcium (Ca)	IS 3025 (Part 40): 1991	2.0 mg/l to 75.0 mg/l

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II. POLLUTION & ENVIRONMENT				
1.	Domestic Sewage, Waste Water, Treated Effluent And Industrial Waste	Total Suspended Solid (TSS)	IS 3025 (Part 17): 1984	2 mg/l to 500 mg/l
		pH	IS 3025 (Part 11): 1983	2.0 to 13.0
		Biological Oxygen Demand (BOD)	APHA (22 nd Edition) 5210-B: 2012 Standard Methods	2 mg/l to 200 mg/l
		Chemical Oxygen Demand (COD)	APHA (22 nd Edition) 5220-D: 2012 Standard Methods	2 mg/l to 500 mg/l

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