

Laboratory	Pollu Tech Aids, No. 16, 1st Floor, 6th E Main, II Stage, II Phase, W. C. Road, Mahalakshmi Layout, Bangalore, Karnataka		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.09.2015
Certificate Number	T-3570	Valid Until	10.09.2017
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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.	Drinking Water/ Surface Water/ Ground Water	pH Value	IS 3025 (Part 11): 2002 Electrometric Method	1.0 to 13.0
		Colour	IS 3025 (Part 4): 2002 (Platinum Cobaltus method)	1 Pt-Co to 20 Pt-Co
		Total Dissolved solids	IS 3025 (Part 16): 2006 Gravimetric Method	10 mg/L to 10000 mg/L
		Total Suspended solids	IS 3025 (Part 17): 2002 Gravimetric Method	1 mg/L to 500 mg/L
		Conductivity	IS 3025 (Part 14): 2002 Electrometric Method	10 µS/cm to 2000 µS/cm
		Chloride	IS 3025 (Part 32): 2003 Argentometric Method	2 mg/L to 1000 mg/L
		Iron	IS 3025 (Part 53): 2003 1,10 Phenanthroline Method	0.02 mg/L to 2.0 mg/L
		Sulfate	IS 3025 (Part 24): 2003 Turbidimetric Method	1 mg/L to 200 mg/L
		Residual Chlorine	IS 3025 (Part 26): 2003 Iodometric method	1 mg/L to 50 mg/L
		Nitrate as NO ₃	IS 3025 (Part 34): 2003 Chromotropic method	0.5 mg/L to 50 mg/L
		Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009 EDTA titrimetric method	2 mg/L to 1000 mg/L

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Convenor

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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
	Drinking Water/ Surface Water/ Ground Water	Calcium as Ca	IS 3025 (Part 40): 2003 EDTA Titrimetric method	2 mg/L to 700 mg/L
		Magnesium as Mg	IS 3025 (Part 46): 2003 EDTA Titrimetric method	1 mg/L to 100 mg/L
		Total Alkalinity as CaCO ₃	IS 3025 (Part 23): 2003 Titrimetric method	1 mg/L to 1000 mg/L
		Fluoride	IS 3025 (Part 60): 2008 Alizirine Zirconium method	0.1 mg/L to 50 mg/L
		Phosphate as PO ₄	IS 3025 (Part 31): 2003 Stannous chloride Method	0.5 mg/L to 2 mg/L
		Potassium as K	IS 3025 (Part 45): 2003 Flame photometric method	1 mg/L to 20 mg/L
		Sodium as Na	IS 3025 (Part 45): 2003 Flame photometric method	1 mg/L to 20 mg/L
II.	POLLUTION AND ENVIRONMENT			
1.	Waste Water (Effluent/ Sewage)	pH Value	IS 3025 (Part 11): 2002 Electrometric Method	1.0 to 13.0
		Total Dissolved solids	IS 3025 (Part 16): 2006 Gravimetric Method	10 mg/L to 10000 mg/L
		Total Suspended solids	IS 3025 (Part 17): 2002 MFA Gravimetric Method	1 mg/L to 500 mg/L
		Conductivity	IS 3025 (Part 14): 2002 Electrometric Method	10 µS/cm to 2000 µS/cm

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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
	Waste Water (Effluent/ Sewage)	Chloride	IS 3025 (Part 32): 2003 Argentometric Method	2 mg/L to 1000 mg/L
		Iron	IS 3025 (Part 53): 2003 1,10 Phenanthroline Method	0.02 mg/L to 2.0 mg/L
		Sulfate	IS 3025 (Part 24): 2003 Turbidimetric Method	1 mg/L to 200 mg/L
		Oil and Grease	IS 3025 (Part 39): 2003 Gravimetric Method	1 mg/L to 100 mg/L
		BOD	IS 3025 (Part 44): 2009 Winkler Method	1 mg/L to 5000 mg/L
		COD	IS 3025 (Part 58): 2006 Open reflux method	5 mg/L to 5000 mg/L
		Residual Chlorine	IS 3025 (Part 26): 2003 Iodometric method	1 mg/L to 50 mg/L
		Nitrate as NO ₃	IS 3025 (Part 34): 2003 Chromotropic method	0.5 mg/L to 50 mg/L
		Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009 EDTA titrimetric method	2 mg/L to 1000 mg/L
		Calcium as Ca	IS 3025 (Part 40): 2003 EDTA titrimetric method	2 mg/L to 700 mg/L
		Magnesium as Mg	IS 3025 (Part 46): 2003 EDTA titrimetric method	1 mg/L to 100 mg/L

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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
	Waste Water (Effluent/ Sewage)	Total Alkalinity as CaCO ₃	IS 3025 (Part 23): 2003 Titrimetric method	1 mg/L to 1000 mg/L
		Fluoride	IS 3025 (Part 60): 2008 Alizirine Zirconium method	0.1 mg/L to 50 mg/L
III. AIR, GASES AND ATMOSPHERE				
1.	Ambient Air	PM ₁₀	IS 5182 (Part 23): 2006 Gravimetric method	10 µg/m ³ to 500 µg/m ³
		PM _{2.5}	PTA/SOP/104 Dated: 12/03/2015	4 µg/m ³ to 200 µg/m ³
		SO ₂	IS 5182 (Part 2): 2001,	5 µg/m ³ to 200 µg/m ³
		NO ₂	IS 5182 (Part 6): 2006,	6 µg/m ³ to 200 µg/m ³
		NH ₃	APHA (2 nd Edition): 1977 Method 801, Indo phenol Blue method	1 µg/m ³ to 200 µg/m ³

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