

Laboratory **India Glycols Limited, Laboratory, A-1 Industrial Area Bazpur Road, Kashipur, Distt. Udham Singh Nagar, Uttarakhand**

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

Certificate Number **TC-7777 (in lieu of T-4136 & T-4135)**

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Validity **22.09.2018 to 21.09.2020**

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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BIOLOGICAL TESTING

I.	WATER			
1.	Drinking Water, Ground Water and Surface Water	Total Coliform	IS 1622	<2 MPN/100 ml to 1600 MPN/100 ml
		E coli	IS 1622 IS 15185	<2 MPN/100 ml to 1600 MPN/100 ml Present or Absent/ 100 ml
		Standard Plate Count	IS 1622	≥ 1cfu / ml
		Sulphate Reducing Bacteria (SRB)	IS 1622	< 2 to 1800 SRB/ 100 ml or MPN/100 ml
		Faecal Streptococci	IS 1622	< 2 MPN/100 ml to 1600 MPN/100 ml
II.	POLLUTION & ENVIRONMENT			
1.	Waste Water (Effluents/ Sewage)	Total Coliform	IS 1622	< 2 MPN/100 ml to 1600 MPN/100 ml
		E coli	IS 1622	< 2 MPN/100 ml to 1600 MPN/100 ml
		Faecal Coliform	IS 1622	< 2 MPN/100 ml to 1600 MPN/100 ml
		Standard Plate Count	IS 1622	≥ 1 cfu / ml
		Sulphate Reducing Bacteria (SRB)	IS 1622	< 2 to 1800 SRB/ 100 ml or MPN/100 ml
		Faecal Streptococci	IS 1622	< 2 MPN/100 ml to 1600 MPN/100 ml

Ashutosh D. Tatwawadi
Convenor

Battal Singh
Program Manager

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CHEMICAL TESTING

AT LAB				
I.	WATER			
1.	Surface Water, Ground Water and Drinking Water	Color	IS 3025 (Part 4)	1 Hazen to 500 Hazen
		Turbidity	IS 3025 (Part 10)	1 NTU to 500 NTU
		pH	IS 3025 (Part 11)	4 to 10
		Total Hardness	IS 3025 (Part 21)	2 mg/l to 10000 mg/l
		Chloride as Cl	IS 3025 (Part 32)	1 mg/l to 10000 mg/l
		Total Dissolved Solids	IS 3025 (Part 16)	5 mg/l to 10000 mg/l
		Calcium as Ca	IS 3025 (Part 40)	1 mg/l to 1000 mg/l
		Magnesium as Mg	IS 3025 (Part 46)	1 mg/l to 500 mg/l
		Sulphate	IS 3025 (Part 24)	1 mg/l to 100 mg/l
		Total Alkalinity	IS 3025 (Part 25)	1 to 1000 mg/l
	Specific Conductivity	IS 3025 (Part 14)	1.0 µmhos/cm to 10000 µmhos/cm	
II.	POLLUTION & ENVIRONMENT			
1.	Waste Water (Effluents/ Sewage)	Color	IS 3025 (Part 4)	1 Hazen to 500 Hazen
		Turbidity	IS 3025 (Part 10)	1 NTU to 1000 NTU
		pH	IS 3025 (Part 11)	2 to 12
		Total Hardness as CaCO ₃	IS 3025 (Part 21)	2 mg/l to 10000 mg/l
		Chloride as Cl	IS 3025 (Part 32)	1 mg/l to 10000 mg/l
		Total Dissolved Solids	IS 3025 (Part 16)	5 mg/l to 150000 mg/l
		Calcium as Ca	IS 3025 (Part 40)	1 mg/l to 1000 mg/l
		Magnesium as Mg	IS 3025 (Part 46)	1 mg/l to 50 mg/l
		Sulphate	IS 3025 (Part 24)	1 mg/l to 100 mg/l
		Total Alkalinity	IS 3025 (Part 25)	1 mg/l to 1000 mg/l

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		Specific Conductivity	IS 3025 (Part 14)	1.0 to 10000 μ mhos/cm
		Total Suspended Solids	IS 3025 (Part 17)	1 mg/l to 1000 mg/l
		Biochemical Oxygen Demand (B.O.D.) (27 °C for 3 days)	IS 3025 (Part 44)	1 mg/l to 50000 mg/l
		Chemical Oxygen Demand (C.O.D)	IS 3025 (Part 58)	2 mg/l to 150000 mg/l
		Oil & Grease	IS 3025 (Part 39)	4 mg/l to 100 mg/l
2.	Soil/Sediments	pH	IS 2720 (Part 26)	4 to 10
		Conductivity	IS 14767	0.01 ms/cm to 199.9 ms/cm
		Bulk Density	IS 2720 (Part 3)	1 gm/cc to 4 gm/cc
		Organic Carbon	IS 2720 (Part 22)	0.5 % to 100 %
		Moisture Content	IS 2720 (Part 2)	0.25 % to 100 %
III.	ATMOSPHERIC POLLUTION			
1.	Ambient Air	Particulate Matter (PM ₁₀)	IS 5182 (Part 23)	10 μ g/m ³ to 1000 μ g/m ³
		Sulphur Dioxide	IS 5182 (Part 2)	5 μ g/m ³ to 1050 μ g/m ³
		Oxides of Nitrogen	IS 5182 (Part 6)	6 μ g/m ³ to 750 μ g/m ³
		Ozone	IS 5182 (Part 9)	10 μ g/m ³ to 400 μ g/m ³
		Ammonia	APHA 11nd Ed. 1977 Method 801 (Indophenol Blue Method)	10to500 μ g/m ³
		PM _{2.5}	US EPA 40 CFR (P-50)	5 μ g/m ³ to 200 μ g/m ³
2.	Stack Emission	Particulate Matter	IS 11255 (Part 1)	10 mg/Nm ³ to 500 mg/Nm ³
		Sulphur Dioxide	IS 11255 (Part 2)	5 mg/Nm ³ to 2000 mg/Nm ³
		Oxides of Nitrogen	IS 11255 (Part 7)	2 mg/Nm ³ to 400 mg/Nm ³

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CHEMICAL TESTING

AT SITE				
I.	ATMOSPHERIC POLLUTION			
1.	Ambient Noise Levels (Excluding vibration) and Source Noise Levels (Excluding vibration)	Noise Levels Leq Ambient	IS 9989 Manufacturer's Manual	30 dB(A) to 130 dB(A)
		Noise Levels emitted by machines	IS 4758 Manufacturer's Manual	30 dB(A) to 130 dB(A)