

Laboratory Institute for Environmental Management (Eco Enviro Lab), 2208/A, Jagarnath Nagar, Argora, Pundag Road, P.O. Ashok Nagar, Ranchi, Jharkhand

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8211

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Validity 21.12.2018 to 20.12.2020

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

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. ATMOSPHERIC POLLUTION				
1.	Ambient Air	Particulate Matter (PM ₁₀)	IS 5182 (Part 13)	10 µg/m ³ to 1000 µg/m ³
		Particulate Matter (PM _{2.5})	SOP No.: 02	10 µg/m ³ to 500 µg/m ³
		Oxides of Nitrogen	IS 5182 (Part 6)	6 µg/m ³ to 100 µg/m ³
		Sulphur dioxide	IS 5182 (Part 2)	5 µg/m ³ to 100 µg/m ³
		Ozone	Method No. 411 APHA (Air Sampling and Analysis) 3 rd Edition	5 µg/m ³ to 200 µg/m ³
		Ammonia	Method No. 801 APHA (Air Sampling and Analysis) 3 rd Edition	7 µg/m ³ to 400 µg/m ³
2.	Stack Emissions	Particulate matter	IS 11255 (Part 1)	5 mg/Nm ³ to 1000 mg/Nm ³
		Nitrogen Oxides	IS 11255 (Part 2)	5 mg/Nm ³ to 600 mg/Nm ³
		Sulfur dioxide	IS 11255 (Part 7)	5 mg/Nm ³ to 1000 mg/Nm ³
II. WATER				
1.	Surface Water / Ground Water / Drinking Water	Conductivity	IS 3025 (Part 14)	2 µS/cm to 2000 µS/cm
		Turbidity	IS 3025 (Part 10)	1 NTU to 1000 NTU
		pH	IS 3025 (Part 11)	2 to 12
		Colour	IS 3025 (Part 4)	1 Hazen to 20 Hazen
		Total Hardness	IS 3025 (Part 21)	4 mg/L to 1000 mg/L
		Sulfate (as SO ₄)	IS 3025 (Part 11)	1 mg/L to 100 mg/L
		Chloride	IS 3025 (Part 32)	5 mg/L to 2000 mg/L

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Nitrate Nitrogen (as NO ₃ -N)	IS 3025 (Part 34)	0.1 mg/L to 6 mg/L
		Nitrite Nitrogen (as NO ₂ -N)	IS 3025 (Part 34)	0.1 mg/L to 0.5 mg/L
		Total Dissolved Solid	IS 3025 (Part 16)	5 mg/L to 5000 mg/L
		Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	8 mg/L to 500 mg/L
		Phosphate (as PO ₄)	IS 3025 (Part 31)	0.04 mg/L to 20 mg/L
		Alkalinity	IS 3025 (Part 23)	2 mg/L to 2000 mg/L
		Iron	IS 3025 (Part 53)	0.08 mg/L to 5 mg/L
		Oil & Grease	IS 3025 (Part 39)	4 mg/L to 100 mg/L
		Potassium	IS 3025 (Part 45)	5 mg/L to 1000 mg/L
		Sodium	IS 3025 (Part 45)	10 mg/L to 1000 mg/L
		Total Suspended Solids	IS 3025 (Part 17)	10 mg/L to 5000 mg/L
		Total Solids	IS 3025 (Part 18)	0.01 mg/L to 1.0 mg/L
III.	POLLUTION & ENVIRONMENT			
1.	Waste Water	Conductivity	IS 3025 (Part 14)	5 µS/cm to 200 mS/cm
		pH	IS 3025 (Part 11)	2 to 12
		Colour	IS 3025 (Part 4)	1 Hazen to 20 Hazen
		Total Hardness	IS 3025 (Part 21)	5 mg/L to 2000 mg/L
		Sulfate (as SO ₄)	IS 3025 (Part 11)	1 mg/L to 100 mg/L
		Chloride	IS 3025 (Part 32)	5 mg/L to 2000 mg/L
		Nitrate Nitrogen (as NO ₃ -N)	IS 3025 (Part 34)	5 mg/L to 100 mg/L
		Nitrite Nitrogen (as NO ₂ -N)	IS 3025 (Part 34)	0.1 mg/L to 50 mg/L
		Total Dissolved Solid	IS 3025 (Part 16)	5 mg/L to 5000 mg/L
		Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	5 mg/L to 500000 mg/L

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		Biochemical Oxygen Demand (BOD)	IS 3025 (Part 44)	2 mg/L to 3000 mg/L
		Phosphate (as PO ₄)	IS 3025 (Part 31)	0.04 mg/L to 20 mg/L
		Alkalinity	IS 3025 (Part 23)	2 mg/L to 2000 mg/L
		Iron	IS 3025 (Part 53)	0.08 mg/L to 5 mg/L
		Oil & Grease	IS 3025 (Part 39)	1 mg/L to 100 mg/L
		Potassium	IS 3025 (Part 45)	5 mg/L to 1000 mg/L
		Sodium	IS 3025 (Part 45)	10 mg/L to 1000 mg/L
		Total Suspended Solids	IS 3025 (Part 17)	5 mg/L to 1000 mg/L