

Laboratory **Green Vision, Urvashi Malhar, MAEV-25, Bengal Ambuja House, Durgapur, West Bengal**

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

Certificate Number **TC-8210**

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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.	POLLUTION & ENVIRONMENT			
1.	Waste Water	pH	APHA (23 rd Edition) 4500 H ⁺ B	2.0 to 12.0
		Conductivity	APHA (23 rd Edition) 2510B	1 µS/Cm to 100 mS/cm
		Total Suspended Solids	APHA (23 rd Edition) 2540D	5.0 mg/L to 2000 mg/L
		Total Dissolved Solids	APHA (23 rd Edition) 2540C	5.0 mg/L to 5000mg/L
		Chemical Oxygen Demand (COD)	APHA (23 rd Edition) 5220B	5.0 mg/L to 10000 mg/L
		Biological Oxygen Demand (BOD)	IS 3025 (Part 44)	2.0 mg/L to 5000 mg/L
		Oil & Grease	APHA (23 rd Edition) 5520A	2.0 mg/L to 100 mg/L
		Iron	APHA (23 rd Edition) 3500 Fe B	0.1 mg/L to 10 mg/L
		Dissolved Phosphate	APHA (23 rd Edition) 4500 P D	0.05 mg/L to 10.0 mg/L
II.	WATER			
1.	Drinking Water and Surface Water	pH	APHA (23 rd Edition) 4500 H ⁺ B	4.0 to 12.0
		Conductivity	APHA (23 rd Edition) 2510B	1.0 µS/Cm to 10000 µS/cm
		Turbidity	APHA (23 rd Edition) 2130B	1 NTU to 800 NTU
		Total Dissolved Solids	APHA (23 rd Edition) 2540C	2.0 mg/L to 4000 mg/L
		Dissolve Oxygen	APHA (23 rd Edition) 4500 O C	0.5 mg/L to 10 mg/L
		Total Hardness (as CaCO ₃)	APHA (23 rd Edition) 2320C	10 mg/L to 1000 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
		Calcium	APHA (23 rd Edition) 3500 Ca B	2 mg/L to 200 mg/L
		Magnesium	APHA (23 rd Edition) 3500 Mg B	2 mg/L to 200 mg/L
		Alkalinity	APHA (23 rd Edition) 2320B	10 mg/L to 1500 mg/L
		Acidity	APHA (23 rd Edition) 2320B	10 mg/L to 500 mg/L
		Chloride	APHA (23 rd Edition) 4500 Cl ⁻ B	5 mg/L to 1500 mg/L
		Residual Chlorine	APHA (23 rd Edition) 4500 Cl B	0.5 mg/L to 5 mg/L
		Sulfate	APHA (23 rd Edition) 4500 SO ₄ ²⁻ E	1 mg/L to 500 mg/L
		Iron	APHA (23 rd Edition) 3500 Fe B	0.1 mg/L to 10 mg/L
		Hexavalent Chromium	APHA (23 rd Edition) 3500 Cr B	0.01 mg/L to 10 mg/L
II.	ATMOSPHERIC POLLUTION			
1.	Ambient Air	Sulphur Dioxide	IS 5182 (Part 2)	9 µg/m ³ to 200 µg/m ³
		Nitrogen Dioxide	IS 5182 (Part 6)	6 µg/m ³ to 300 µg/m ³
		Respirable Suspended Particulate Matter (PM ₁₀)	IS 5182 (Part 23)	10 µg/m ³ to 1000 µg/m ³
		Fine Particulate Matter (PM _{2.5})	US EPA CFR 40 Appendix L to Part 50	10 µg/m ³ to 300 µg/m ³
2.	Stack Emissions	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 600 mg/NM ³

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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
		CO ₂	IS 13270	2 % to 20 %
		CO	IS 13270	1 % to 10 %
		O ₂	IS 13270	1 % to 20 %
		Temperature	IS 11255 (Part 3)	10 °C to 600 °C
		Velocity	IS 11255 (Part 3)	3 m/s to 60 m/s