

Laboratory Shreya Test House (Laboratory Division of Shreya Realty Private Limited), Gaur Biz Park, Plot No. 1, Abhay Khand-II, Indirapuram, Ghaziabad, Uttar Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7311

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Validity 28.05.2018 to 27.05.2020

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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CHEMICAL TESTING

I. ATMOSPHERIC POLLUTION				
1.	Ambient Air Quality	Respirable Suspended Particulate Matter, PM ₁₀ (RSPM)	IS 5182 (Part 23)	10 µg/m ³ to 1000 µg/m ³
		Sulphur Dioxide (SO ₂)	IS 5182 (Part 2)	5 µg/m ³ to 500 µg/m ³
		Nitrogen Dioxide (NO ₂)	IS 5182 (Part 6)	6 µg/m ³ to 500 µg/m ³
		Particulate Matter, PM _{2.5}	SHR/SOP/AIR-03 (Dated. 02.05.2015)	10 µg/ m ³ to 500 µg/m ³
		Ammonia (NH ₃)	SHR/SOP/AIR-05 (Dated. 02.05.2015)	1 µg/m ³ to 50 µg/m ³
		Ozone (O ₃)	SHR/SOP/AIR-06 (Dated. 02.05.2015)	20 µg/m ³ to 1000 µg/m ³
2.	Stack Emission	Particulate Matter (PM)	IS 11255 (Part 1)	10 mg/Nm ³ to 2000 mg/Nm ³
		Sulphur Dioxide (SO ₂)	IS 11255 (Part 2)	5 mg/Nm ³ to 250 mg/Nm ³
		Oxides Of Nitrogen (No _x As NO ₂)	IS 11255 (Part 7)	5 mg/Nm ³ to 500 mg/Nm ³
		Carbon Monoxide (CO)	IS 13270	0.1 % to 2 %
		Carbon Dioxide (CO ₂)	IS 13270	0.1 % to 20 %
		Oxygen (O ₂)	IS 13270	0.1 % to 20 %
II. POLLUTION AND ENVIRONMENT				
1.	Waste Water (Effluents/ Sewage)	pH	IS 3025 (Part 11)	1 to 14
		Conductivity	IS 3025 (Part 14)	5 µmhos/cm to 10000 µmhos/cm
		Total Dissolved Solids	IS 3025 (Part 16)	5 mg/l to 10000 mg/l

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		Total Suspended Solids	IS 3025 (Part 17)	5 mg/l to 1000 mg/l
		Oil & Grease	IS 3025 (Part 39)	5 mg/l to 100 mg/l
		Dissolved Oxygen	IS 3025 (Part 38)	0.1 mg/l to 10 mg/l
		Nitrite	IS 3025 (Part 34), Section 4 (NEDA-sulphanilamide colorimetric)	0.01 mg/l to 50 mg/l
		Phosphate (As PO_4 -P)	IS 3025 (Part 31) (Section 4: stannous chloride method)	0.1 mg/l to 50 mg/l
		Chemical Oxygen Demand	IS 3025 (Part 58)	4 mg/l to 5000 mg/l
		Biochemical Oxygen Demand (3 Days At 27°C)	IS 3025 (Part 44)	2 mg/l to 2000 mg/l
		Ammonical Nitrogen	IS 3025 (Part 34) Section: 2.3Nesslerization/ 2.5: titrimetric	0.5 mg/l to 50 mg/l
III.	WATER			
1.	Drinking Water	pH	IS 3025 (Part 11)	2 to 12
		Total Hardness (As $CaCO_3$)	IS 3025 (Part 21)	2 mg/l to 5000 mg/l
		Chloride (As Cl)	IS 3025 (Part 32) (Method # 2: Argentometric)	5 mg/l to 2000 mg/l
		Calcium (As Ca)	IS 3025 (Part 40) (Section 5 EDTA titrimetric method)	2 mg/l to 1000 mg/l
		Magnesium (As Mg)	IS 3025 (Part 46)	2 mg/l to 1000 mg/l
		Total Alkalinity (As $CaCO_3$)	IS 3025 (Part 23)	2 mg/l to to 1000 mg/l

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		Fluoride (As F)	IS 3025 (Part 60) (SPADNS method)	0.1 mg/l to to 15 mg/l
		Sulphate (As SO ₄)	IS 3025 (Part 24) (Section 4: turbidity)	1 mg/l to to 400 mg/ l
3.	Water (Ground Water, Surface Water)	Odor	IS 3025 (Part 5)	Qualitative
		pH	IS 3025 (Part 11)	2 to 12
		Total Hardness (As CaCO ₃)	IS 3025 (Part 21)	2 mg/l to 5000 mg/l
		Chloride (As Cl)	IS 3025 (Part 32) (Method # 2: argentometric)	5 mg/l to 2000 mg/l
		Calcium (As Ca)	IS 3025 (Part 40) (Section 5 EDTA titrimetric method)	2 mg/l to 1000 mg/l
		Magnesium (As Mg)	IS 3025 (Part 46)	2 mg/l to 1000 mg/l
		Total Alkalinity	IS 3025 (Part 23)	2 mg/l to 1000 mg/l
		Fluoride (As F)	IS 3025 (Part 60) (SPADNS method)	0.1 mg/l to 15 mg/l
		Sulphate (As SO ₄)	IS 3025 (Part 24) (Section 4: turbidity)	1 mg/l to 400 mg/ l
		Nitrate (As NO ₃)	IS 3025 (Part 34) (Section: 3.4) Chromatotropic acid method.	0.1 mg/l to 50 mg/l
		Total Dissolved Solids	IS 3025 (Part 16)	5 mg/l to 10000 mg/l
		Phosphates	IS 3025 (Part 31) (section 4: stannous chloride method)	0.1 mg/l to 50 mg/l
		Conductivity	IS 3025 (Part 14)	1 µmhos/cm to 10,000 µmhos/cm
		Acidity	IS 3025 (Part 22)	5 mg/l to 500 mg/l

Ashutosh D. Tatwawadi
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		Dissolved Oxygen	IS 3025 (Part 38)	0.1 mg/l to 10 mg/l
		Turbidity	IS 3025 (Part 10)	1 to 1000 NTU
4.	Water for Construction Purpose	pH	IS 3025 (Part 11)	2 to 12
		Neutralization Value With 0.02N H ₂ SO ₄	IS 3025 (Part 23)	0.1 ml to 50 ml
		Neutralization Value With 0.02N NaOH	IS 3025 (Part 22)	0.1 ml to 10 ml
		Chloride (As Cl)	IS 3025 (Part 32)	5 mg/l to 2000 mg/l
		Sulphate (As SO ₃)	IS 3025 (Part 24)	1 mg/l to 400 mg/l
		Organic Solids	IS 3025 (Part 18)	5 mg/l to 200 mg/l
		Inorganic Solids	IS 3025 (Part 18)	5 mg/l to 3000 mg/l
		Suspended Matter	IS 3025 (Part 17)	5 mg/l to 1000 mg/l

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CHEMICAL TESTING

At Site				
I.	ATMOSPHERIC POLLUTION			
1.	Noise	Ambient Noise Level, Leq	IS 9989	30 dB(A) to 100 dB(A)
		Source Noise Level, Leq (DG Set)	IS 4758	30 dB(A) to 130 dB(A)