

Laboratory Scientific Research Laboratory, 90, Lake East, 4th Road, Santoshpur,
Jadavpur, Kolkata, West Bengal

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7649

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Validity 06.08.2018 to 05.08.2020

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/Surface Water	Total Coliform Faecal Coliform E.Coli Total Plate Count	IS 1622	1 to 1600MPN/100ML 1 to 1600MPN/100ML 1 to 1600MPN/100ML >1 CFU/ml
II.	ENVIRONMENTAL & POLLUTION			
1.	Waste Water (Effluent/Sewage)	Total Coliform Faecal Coliform E.Coli Total Plate Count	IS 1622	1 to 1600MPN/100ML 1 to 1600MPN/100ML 1 to 1600MPN/100ML >1 CFU/ml

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CHEMICAL TESTING

I.	WATER			
1.	Surface Water/ Ground Water/ Rain Water	Conductivity	APHA:2510 B	10 µs/cm to 200 ms/cm
		Colour	APHA:2120 B	5 Hazen Units to 500 Hazen Units
		pH	APHA:4500 H ⁺ B	2 to 12
		Fixed & Volatile Solids	APHA:2540 E	10 mg/l to 5000 mg/l
		Total Solids	APHA:2540 B	10 mg/l to 10000 mg/l
		Total Dissolved Solids	APHA:2540 C	10 mg/l to 10000 mg/l
		Total Suspended Solids	APHA:2540 D	2 mg/l to 10000 mg/l
		Turbidity	APHA:2130B	1 NTU to 400 NTU
		Odour	IS 3025 (Part-5)	Qualitative
		Salinity	APHA:4550CI-B	1.0 gm/l to 35.0 gm/l
		Acidity	IS 3025 (Part-22)	5 mg/l to 500 mg/l
		Alkalinity	APHA:2320B	5 mg/l to 2000 mg/l
		Ammoniacal Nitrogen	APHA:4500 NH ₃ B APHA:4500 NH ₃ C APHA:4500 NH ₃ D APHA:4500 NH ₃ F	1 mg/l to 500 mg/l 1 mg/l to 100 mg/l 0.1 mg/l to 2.0 mg/l
		Chloride	APHA:4500 Cl-B	2 mg/l to 5000 mg/l
		Chlorine Residual	APHA:4500 Cl B	0.1 mg/l to 50 mg/l
		Chlorine Demand	APHA:4500 Cl G APHA:2350B	0.1 mg/l to 50 mg/l
		Dissolved Oxygen	APHA:4500 O C	1 mg/l to 10 mg/l
		Fluoride	APHA:4500 F-D APHA:4500 F-C	0.05 mg/l to 20 mg/l 0.1 mg/l to 100 mg/l
		Total Hardness(CaCO ₃)	APHA:2340 C	5 mg/l to 3000 mg/l
		Total Kjeldahl Nitrogen	APHA:4500 NH ₃ B, C, D & 4500 N _{org} B	2 mg/l to 500 mg/l
		Nitrite Nitrogen	APHA:4500 NO ₂ B	0.01 mg/l to 1.00 mg/l
		Nitrate Nitrogen	APHA:4500 NO ₃ -B	0.5 mg/l to 100 mg/l

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			APHA:4500 NO ₃ -E	0.05 mg/l to 50 mg/l
		Phosphate	APHA:4500 P D	0.01 mg/l to 25 mg/l
		Sulphate	APHA:4500 SO ₄ ²⁻ -E	2.5 mg/l to 400 mg/l
		Silica	APHA:4500 SiO ₂ -C	1 mg/l to 100 mg/l
		Cyanide	APHA:4500 CN ⁻ -C, E APHA:4500 CN ⁻ -C, F	0.02 mg/l to 20 mg/l 0.1 mg/l to 10 mg/l
		Sulphide	APHA:4500 S ²⁻ -F	0.5 mg/l to 10 mg/l
		Calcium as Ca	APHA:3500 Ca B	2 mg/l to 2000 mg/l
		Potassium as K	APHA:3500 K B	1 mg/l to 1000 mg/l
		Sodium as Na	APHA:3500 Na B	1 mg/l to 1000 mg/l
		Bio chemical Oxygen Demand as BOD	IS 3025(Part 44)	2.0 mg/l to 600 mg/l
		Chemical Oxygen Demand as COD	APHA:5220 B	8 mg/l to 800 mg/l
		Oil & Grease	APHA:5520 B	5 mg/l to 100 mg/l
		Chlorophyll	APHA:10200 H	1 mg/m ³ to 100 mg/m ³
2.	Packaged Drinking Water/ Potable Water	Conductivity	APHA:2510 B	10 µs/cm to 20 ms/cm
		pH	APHA:4500 H ⁺ -B	4 to 10
		Alkalinity	APHA:2320B	5 mg/l to 300 mg/l
		Chloride	APHA:4500 Cl ⁻ -B	2 mg/l to 300mg/l
		Fluoride	APHA:4500 F ⁻ -D	0.05 mg/l to 1.4 mg/l
			APHA:4500 F ⁻ -C	0.1 mg/l to 10 mg/l
		Total Hardness(CaCO ₃)	APHA:2340C	2 mg/l to 1000mg/l
		Nitrite Nitrogen	APHA:4500 NO ₂ ⁻ -B	0.01 mg/l to 1mg/l
		Phosphate	APHA:4500 P D	0.01 mg/l to 5 mg/l
		Sulphate	APHA:4500 SO ₄ ²⁻ -E	5 mg/l to 200 mg/l
		Silica	APHA:4500 SiO ₂ -C	1 mg/l to 15 mg/l
		Calcium as Ca	APHA:3500 Ca B	1 mg/l to 500 mg/l
		Potassium as K	APHA:3500 K B	1 mg/l to 50 mg/l
		Sodium as Na	APHA:3500 Na B	1 mg/l to 50 mg/l
		Cyanide	APHA:4500 CN ⁻ -C, E	0.02 mg/l to 1.0 mg/l
		Anionic Surfactant (MBAS)	APHA:5540 C	0.1 mg/l to 10 mg/l
		Phenols	APHA:5530 C	0.002 mg/l to 5 mg/l

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II.	RESIDUE IN WATER			
1.	Pesticides (Organo-chlorine)	Aldrin	APHA:6630 B & C	1 µg/l to 100 µg/l
		α-BHC	APHA:6630 B & C	1 µg/l to 100 µg/l
		β-BHC	APHA:6630 B & C	1 µg/l to 100 µg/l
		γ-BHC	APHA:6630 B & C	1 µg/l to 100 µg/l
		δ-BHC	APHA:6630 B & C	1 µg/l to 100 µg/l
		4-4' DDT	APHA:6630 B & C	6 µg/l to 600 µg/l
		p, p' DDE	APHA:6630 B & C	2 µg/l to 200 µg/l
		p, p' DDD	APHA:6630 B & C	6 µg/l to 600 µg/l
		Dieldrin	APHA:6630 B & C	2 µg/l to 200 µg/l
		Endosulfan-I	APHA:6610 B & C	2 µg/l to 200 µg/l
		Endosulfan-II	APHA:6630 B & C	2 µg/l to 200 µg/l
		Endosulfan Sulfate	APHA:6630 B & C	6 µg/l to 600 µg/l
		Endrin	APHA:6610 B & C	2 µg/l to 200 µg/l
		Endrin aldehyde	APHA:6630 B & C	6 µg/l to 600 µg/l
	Heptachlor	APHA:6630 B & C	1 µg/l to 100 µg/l	
	Heptachlor Epoxide (Isomer B)	APHA:6630 B & C	1 µg/l to 100 µg/l	
2.	Trace Metal Elements	Boron as B	APHA:4500 B C	1 mg/l to 5mg/l
		Cadmium as Cd	APHA:3111 B	0.02 mg/l to 10mg/l
		Chromium (Cr)Total	APHA:3111 B	0.05 mg/l to 50 mg/l
		Chromium (Cr)Hexavalent	APHA:3500 Cr B	0.01 mg/l to 10 mg/l
		Copper as Cu	APHA:3111Cu B	0.05 mg/l to 50 mg/l
		Iron as Fe	APHA:3111 B APHA:3500 Fe B	0.1 mg/l to 100 mg/l
		Lead as Pb	APHA:3111 B	0.1 mg/l to 100 mg/l
		Mercury as Hg	APHA:3112B	0.001 mg/l to 20 mg/l
		Nickel as Ni	APHA:3111 B	0.05 mg/l to 50 mg/l
		Zinc as Zn	APHA:3111 B	0.01 mg/l to 50 mg/l
		Arsenic as As	APHA:3114C APHA:3500 As B	0.01 mg/l to 50 mg/l
		Aluminium as Al	APHA:3500 Al B	0.01 mg/l to 50 mg/l
	Manganese as Mn	APHA:3111 B	0.05 mg/l to 50 mg/l	

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		Selenium(Se)	APHA:3500 Se C	0.005 mg/l to 5 mg/l
		Silver(Ag)	APHA:3111 B	0.1 mg/l to 5 mg/l
		Cobalt as Co	APHA:3111 B	0.05 mg/l to 20 mg/l
III.	POLLUTION & ENVIRONMENT			
1.	Waste/ Sewage Water	Conductivity	APHA:2510 B	10 µs/cm to 200 ms/cm
		Colour	APHA:2120 B	5 Hazen Units to 500 Hazen Units
		pH	APHA:4500 H ⁺ B	2 to 12
		Fixed & Volatile Solids	APHA:2540 E	10 mg/l to 5000 mg/l
		Total Solids	APHA:2540 B	10 mg/l to 10000 mg/l
		Total Dissolved Solids	APHA:2540 C	10 mg/l to 10000 mg/l
		Total Suspended Solids	APHA:2540 D	2 mg/l to 10000 mg/l
		Turbidity	APHA:2130B	1 NTU to 400 NTU
		Odour	IS 3025 (Part-5)	Qualitative
		Settable Solids	APHA:2540F	5 mg/l to 1000 mg/l
		Sludge Volume Index (SVI)	APHA:2710D	Qualitative
		Ammoniacal Nitrogen	APHA:4500 NH ₃ B APHA:4500 NH ₃ C APHA:4500 NH ₃ D APHA:4500 NH ₃ F	1 mg/l to 500 mg/l 1 mg/l to 100 mg/l 0.1 mg/l to 2.0 mg/l
		Chloride	APHA:4500 Cl-B	2 mg/l to 5000 mg/l
		Dissolved Oxygen	APHA:4500 O C	1 mg/l to 10 mg/l
		Fluoride	APHA:4500 F-D APHA:4500 F-C	0.05 mg/l to 20 mg/l 0.1 mg/l to 100 mg/l
		Total Hardness (CaCO ₃)	APHA:2340 C	5 mg/l to 3000 mg/l
		Total Kjeldahl Nitrogen	APHA:4500 NH ₃ B, C, D & 4500 N _{org} B	2 mg/l to 500 mg/l
		Nitrite Nitrogen	APHA:4500 NO ₂ B	0.01 mg/l to 1.00 mg/l
		Nitrate Nitrogen	APHA:4500 NO ₃ -B APHA:4500 NO ₃ -E	0.5 mg/l to 100 mg/l 0.05 mg/l to 50 mg/l

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		Phosphate	APHA:4500 P D	0.01 mg/l to 25 mg/l
		Sulphate	APHA:4500 SO ₄ ²⁻ E	2.5 mg/l to 400 mg/l
		Silica	APHA:4500 SiO ₂ C	1 mg/l to 100 mg/l
		Cyanide	APHA:4500 CN·C, E APHA:4500 CN·C, F	0.02 mg/l to 20 mg/l 0.1 mg/l to 10 mg/l
		Sulphide	APHA:4500 S ²⁻ F	0.5 mg/l to 10 mg/l
		Calcium as Ca	APHA:3500 Ca B	2 mg/l to 2000 mg/l
		Chromium (Cr)Hexavalent	APHA:3500 Cr B	0.01 mg/l to 10 mg/l
		Potassium as K	APHA:3500 K B	1 mg/l to 1000 mg/l
		Copper as Cu	APHA:3111Cu B	0.05 mg/l to 50 mg/l
		Iron as Fe	APHA:3111 B APHA:3500 Fe B	0.1 mg/l to 100 mg/l
		Lead as Pb	APHA:3111 B	0.1 mg/l to 100 mg/l
		Magnesium as Mg	APHA:3500 Mg B	Qualitative
		Mercury as Hg	APHA:3112B	0.001 mg/l to 20 mg/l
		Nickel as Ni	APHA:3111 B	0.02 mg/l to 50 mg/l
		Sodium as Na	APHA:3500 Na B	1 mg/l to 1000 mg/l
		Bio chemical Oxygen Demand as BOD	IS 3025(Part 44)	2.0 mg/l to 60000 mg/l
		Chemical Oxygen Demand as COD	APHA:5220 B	8 mg/l to 80000 mg/l
		Oil & Grease	APHA:5520 B	5 mg/l to 500 mg/l
2.	Effluents Toxicity	Bioassay (90% Survival of fish after 96 hours in 100%)	APHA:10600 D	(90% Survival of fish after 96 hours in 100%)
III.	ATMOSPHERIC POLLUTION			
1.	Ambient Air	Nitrogen Oxides as NO ₂	IS 5182 (Part 6)	10 µg/m ³ to 250 µg/m ³
		Sulphur Oxides as SO ₂	IS 5182 (Part 2)	4 µg/m ³ to 50 µg/m ³
		PM ₁₀	IS 5182 (Part 23)	20 µg/m ³ to 1000 µg/m ³
		PM _{2.5}	EPA CFR-40 (Part 50)	10 µg/m ³ to 500 µg/m ³
		Ammonia as NH ₃	APHA	20 µg/m ³ to 500 µg/m ³
		Carbon monoxide as CO	IS 5182 (Part 10)	0.2 mg/m ³ to 4 mg/m ³

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		Ozone as O ₃	APHA	20 µg/m ³ to 200µg/m ³
		Benzene, Toluene, Xylene (BTX)	IS 5182 (Part 11)	0.1 µg/m ³ to 20µg/m ³
		Polycyclic Aromatic Hydrocarbon (PAH)		
		Napthalene	IS 5182(Part 12)	0.2 ng/ m ³ to 20 ng/ m ³
		Acenaphthylene	IS 5182(Part 12)	0.2 ng/ m ³ to 20 ng/ m ³
		Acenaphthene	IS 5182(Part 12)	0.2 ng/ m ³ to 20 ng/ m ³
		Fluorene	IS 5182(Part 12)	0.2 ng/ m ³ to 20 ng/ m ³
		Phenanthrene	IS 5182(Part 12)	0.2 ng/ m ³ to 20 ng/ m ³
		Anthracene	IS 5182(Part 12)	0.2 ng/ m ³ to 20 ng/ m ³
		Fluoranthene	IS 5182(Part 12)	0.2 ng/ m ³ to 20 ng/ m ³
		Pyrene	IS 5182(Part 12)	0.2 ng/ m ³ to 20 ng/ m ³
		Benzo [a]anthracene	IS 5182(Part 12)	0.2 ng/ m ³ to 20 ng/ m ³
		Chrysene	IS 5182(Part 12)	0.2 ng/ m ³ to 20 ng/ m ³
		Benzo[b]fluoranthene	IS 5182(Part 12)	0.2 ng/ m ³ to 20 ng/ m ³
		Benzo[k]fluoranthene	IS 5182(Part 12)	0.2 ng/ m ³ to 20 ng/ m ³
		Benzo[a]pyrene	IS 5182(Part 12)	0.2 ng/ m ³ to 20 ng/ m ³
		Indeno[1, 2, 3-cd] Pyrene	IS 5182(Part 12)	0.2 ng/ m ³ to 20 ng/ m ³
		Dibenzo [a, h]anthracene	IS 5182(Part 12)	0.2 ng/ m ³ to 20 ng/ m ³
		Benzo[g, h, i]perylene	IS 5182(Part 12)	0.2 ng/ m ³ to 20 ng/ m ³
		Metals		
		Lead as Pb	APHA IS 5182 (Part 22)	0.05 µg/m ³ to 10 µg/m ³
		Nickel as Ni	APHA	5 ng/m ³ to 50 ng/m ³
		Arsenic as As	APHA	0.3 ng/m ³ to 10 ng/m ³
		Total Fluoride	IS 5182 (Part 13)	0.05 mg/m ³ to 50 mg/m ³
2.	Emission Stack	Particulate Matter	EPA Method 1 to 5	10 mg/Nm ³ to 800 mg/Nm ³
		Sulphur-dioxide	EPA Method 6	20 mg/m ³ to 1500 mg/m ³
		Carbon dioxide	EPA Method 3	0.2% to 12%
		Carbon monoxide	EPA Method 3	0.2% to 1%
		Temperature	EPA Method 2	20°C to 700°C
		Oxygen	EPA Method 3	0.2% to 18.4%
		Oxides of Nitrogen	EPA Method 7	20 mg/m ³ to 500 mg/m ³

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3.	Noise Monitoring	Ambient Noise (Leg, Lmax, Lmin)	SRL/SOP/030 (Issue no1 date 1.6.17)	35 dB (A) to 130 dB (A)
		Noise Source Measurement	SRL/SOP/030 (Issue no1 date 1.6.17)	35 dB (A) to 130 dB (A)
4.	Meteorological Parameters	Ambient Temperature	SRL/SOP/031 (Issue no1 date 1.6.17)	2°C to 50°C
		Wind Direction	SRL/SOP/031 (Issue no1 date 1.6.17)	N to N 0° to 180°
		Wind Speed	SRL/SOP/031 (Issue no1 date 1.6.17)	Claim to 50 km/hr
		Relative Humidity	SRL/SOP/031 (Issue no1 date 1.6.17)	20% to 90%
		Rain Fall	SRL/SOP/031 (Issue no1 date 1.6.17)	1 mm to 500mm/day

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CHEMICAL TESTING

At Site				
I.	ATMOSPHERIC POLLUTION			
1.	Ambient Air	Nitrogen Dioxides as NO ₂	IS 5182 (Part 6)	10 µg/m ³ to 250 µg/m ³
		Sulphur Dioxides as SO ₂	IS 5182 (Part 2)	4 µg/m ³ to 50 µg/m ³
		PM ₁₀	IS 5182 (Part 23)	20 µg/m ³ to 1000 µg/m ³
		PM _{2.5}	EPA CFR-40 (Part 50)	10 µg/m ³ to 500 µg/m ³
		Ammonia as NH ₃	ISC-411	20 µg/m ³ to 500 µg/m ³
		Carbon monoxide as CO	IS 5182 (Part 10)	0.2 mg/m ³ to 4 mg/m ³
		Ozone as O ₃	IS 5182 (Part 9)	20 µg/m ³ to 200 µg/m ³
2.	Stack Emission	Particulate matter	IS 11255(Part 1)	10 mg/Nm ³ to 800 mg/Nm ³
		Sulphur-dioxide	IS 11255(Part 2)	20 mg/m ³ to 1500 mg/m ³
		Carbon dioxide	EPA Method 3	0.2% to 12%
		Carbon monoxide	EPA Method 3	0.2% to 1%
		Temperature	EPA Method 2	20°C to 700°C
		Oxygen	EPA Method 3	0.2% to 18.4%
		Oxides of Nitrogen	IS 11255(Part 7)	20 mg/m ³ to 500 mg/m ³
		HCL	EPA Method 26A	5 mg/m ³ to 50 mg/m ³
		HF	EPA Method 13A	0.5 mg/m ³ to 5.0 mg/m ³
3.	Noise Monitoring	Ambient Noise (Leq, Lmax, Lmin)	SRL/SOP/030 (Issue no1 date 1.6.17)	35 dB (A) to 130 dB (A)
		Noise Source Measurement	SRL/SOP/030 (Issue no1 date 1.6.17)	35 dB (A) to 130 dB (A)
4.	Meteorological Parameters	Ambient Temperature	SRL/SOP/031 (Issue no1 date 1.6.17)	2°C to 50°C
		Wind Direction	SRL/SOP/031 (Issue no1 date 1.6.17)	N to N 0° to 180°
		Wind Speed	SRL/SOP/031 (Issue no1 date 1.6.17)	1.2 km/hr to 50 km/hr

Pankaj Goyal
Convenor

Jitendra B. Vispute
Program Manager

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		Relative Humidity	SRL/SOP/031 (Issue no1 date 1.6.17)	20% to 90%
		Rain Fall	SRL/SOP/031 (Issue no1 date 1.6.17)	1 mm to 500mm/day
II.	POLLUTION & ENVIRONMENT			
1.	Waste Water (Effluent/Sewage)	pH	APHA:4500 H ⁺ B	2 to 12
		Total Suspended Solids	APHA:2540 D	2 mg/l to 5000 mg/l
		Dissolved Oxygen	APHA:4500 O C	1 mg/l to 15 mg/l
		Bio chemical Oxygen Demand as BOD	IS 3025 (Part 44)	2.0 mg/l to 2000 mg/l
		Chemical Oxygen Demand as COD	APHA:5220 B	8 mg/l to 10, 000 mg/l
		Oil & Grease	APHA:5520 B	5 mg/l to 500 mg/l
		Fluoride	APHA:4500 F D	0.1 mg/l to 50 mg/l
		Cyanide	APHA:4500 CN C, E	0.02 mg/l to 20 mg/l
		Phosphate	APHA:4500 P D	0.01 mg/l to 25 mg/l
		Sulphide	APHA:4500 S ²⁻ F	0.5 mg/l to 10 mg/l
		Phenols	APHA:5530 C	0.002 mg/l to 5 mg/l
		Chromium (Cr)Hexavalent	APHA:3500 Cr B	0.01 mg/l to 10 mg/l
		Chromium (Cr)Total	IS 3025(Part 52)	0.05 mg/l to 50 mg/l
	Chlorine Residual	APHA:4500 Cl G	0.1 mg/l to 50 mg/l	
	Chlorine Demand	APHA:2350B	0.1 mg/l to 50 mg/l	