

Laboratory	Central Laboratory, West Bengal Pollution Control Board, 10A, Block – LA, Sector III, Salt Lake, Kolkata, West Bengal		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	07.09.2015
Certificate Number	T-2636	Valid Until	06.09.2017
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	WATER			
1.	Surface Water and Ground Water	Ammoniacal Nitrogen	APHA (22 nd Edition): 2012 4500-NH ₃ B & 4500-NH ₃ D	0.1 mg/l to 500 mg/l
		Fluoride	APHA (22 nd Edition): 2012 4500- F ⁻ B & 4500- F ⁻ C	0.1 mg/l to 50 mg/l
		Cyanide	APHA (22 nd Edition): 2012 4500-CN ⁻ C (distillation) and 4500- CN ⁻ F (determination)	0.1 mg/l to 20 mg/l
		Sodium	APHA (22 nd Edition): 2012 3500-Na A & 3500- Na B	1.32 mg/l to 4000 mg/l
		Potassium	APHA (22 nd Edition): 2012 3500-K B	1.19 mg/l to 2000 mg/l
		Hexavalent Chromium	APHA (22 nd Edition): 2012 3500-Cr B	0.05 mg/l to 100 mg/l
		Lead	APHA (22 nd Edition) : 2012 3030K & 3111B	0.1 mg/l to 10 mg/l
			APHA (22 nd Edition): 2012 3030K & 3113B	0.002 mg/l to 1 mg/l
		Copper	APHA (22 nd Edition): 2012 3030K & 3113B	0.1 mg/l to 10 mg/l
		Cadmium	APHA (22 nd Edition): 2012 3030K & 3113B	0.05 mg/l to 10 mg/l
	Zinc	APHA (22 nd Edition): 2012 3030K & 3113B	0.05 mg/l to 100 mg/l	

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	Surface Water and Ground Water	Nickel	APHA (22 nd Edition): 2012 3030K & 3113B	0.1 mg/l to 10 mg/l
		Chromium (Total)	APHA (22 nd Edition): 2012 3030K & 3113B	0.1 mg/l to 10 mg/l
		Manganese	APHA (22 nd Edition): 2012 3030K & 3113B	0.1 mg/l to 10 mg/l
		Cobalt	APHA (22 nd Edition): 2012 3030K & 3113B	0.1 mg/l to 10 mg/l
		Aluminium	APHA (22 nd Edition): 2012 3030K & 3113B	0.01 mg/l to 10 mg/l
		Iron	APHA (22 nd Edition): 2012 3030K & 3113B	0.1 mg/l to 100 mg/l
			APHA (22 nd Edition): 2012 3500-Fe B	0.05 mg/l to 100 mg/l
		Mercury	APHA (22 nd Edition): 2012 3112 B	0.001 mg/l to 1 mg/l
		Arsenic	APHA (22 nd Edition): 2012 3030K & 3113B	0.002 mg/l to 0.1 mg/l
			APHA (22 nd Edition): 2012 3030K & 3113B	0.005 mg/l to 0.1 mg/l
	Boron	APHA (22 nd Edition): 2012 4500-B C	0.1 mg/l to 10 mg/l	
	Conductivity	APHA (22 nd Edition): 2012 2510 B	(1.0 µmho to 1000 µmho) /cm	

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	Surface Water and Ground Water	pH	APHA (22 nd Edition): 2012 4500- H ⁺ B	(5.0 to 10.0) units
		Total Suspended solids	APHA (22 nd Edition): 2012 2540 D	4.0 mg/l to 5000 mg/l
		Total Dissolved Solids	APHA (22 nd Edition): 2012 2540 C	4.0 mg/l to 10000 mg/l
		Total solids	APHA (22 nd Edition): 2012 2540 B	4.0 mg/l to 10000 mg/l
		Dissolved Oxygen	APHA (22 nd Edition): 2012 4500-O C	0.2 mg/l to 12.0 mg/l
		Biochemical Oxygen Demand	CL/WI/5.4/19 Issue No.: 2; Issue date:13.02.2015	0.2 mg/l to 200 mg/l
		Chemical Oxygen Demand	APHA (22 nd Edition): 2012 5220 B & 5220 D USEPA Method 410.4	2.0 mg/l to 1000 mg/l
		Total Kjeldahl Nitrogen	APHA (22 nd Edition): 2012 4500-N _{org} B, & 4500- NH ₃ C, 4500- NH ₃ D and DIN EN ISO 11905-1	0.5 mg/l to 150 mg/l
		Oil & Grease	APHA (22 nd Edition): 2012 5520 B	1.0 mg/l to 100 mg/l
		Turbidity	APHA (22 nd Edition): 2012 2130 B	0.7 NTU to 1000 NTU

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Surface Water and Ground Water	Nitrate Nitrogen	APHA (22 nd Edition): 2012 4500-NO ₃ ⁻ E	0.005 mg/l to 50 mg/l
		Nitrite Nitrogen	APHA (22 nd Edition): 2012 4500-NO ₂ ⁻ B	0.004 mg/l to 50 mg/l
		Phosphate-Phosphorus	APHA (22 nd Edition): 2012 4500- P B, 3030 K (digestion) & 4500-P D (determination);	0.005 mg/l to 100 mg/l
		Alkalinity	APHA (22 nd Edition): 2012 2320 B	11 mg/l to 500 mg/l
		Chloride	APHA (22 nd Edition): 2012 4500-Cl ⁻ B	6.12 mg/l to 6000 mg/l
		Total Hardness	APHA (22 nd Edition): 2012 2340 C	6.00 mg/l to 2500 mg/l
		Calcium	APHA (22 nd Edition): 2012 3500-Ca B	2.5 mg/l to 600 mg/l
		Magnesium	APHA (22 nd Edition): 2012 3500-Mg B	By calculation
		Phenol	APHA (22 nd Edition): 2012 5530 B & 5530 D	0.25 mg/l to 10 mg/l
		Sulfate	APHA (22 nd Edition): 2012 4500-SO ₄ ²⁻ E	3.5 mg/l to 500 mg/l
		Fluoride	USEPA Method 300.1, Revision and APHA (22 nd Edition) : 2012	1 mg/l to 100 mg/l
		Chloride	4110 B	1 mg/l to 100 mg/l

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	Surface Water and Ground Water	Nitrate	USEPA Method 300.1, Revision and APHA (22 nd Edition) : 2012 4110 B	1 mg/l to 100 mg/l
		Nitrite		1 mg/l to 100 mg/l
		Sulphate		1 mg/l to 100 mg/l
		Phosphate		1 mg/l to 100 mg/l
		Alpha BHC	APHA (22 nd Edition): 2012 6630 B	0.05 µg/l to 50 µg/l
		Gamma BHC	USEPA Method 3510C (Lqd – Lqd Extraction)	0.05 µg/l to 50 µg/l
		op-DDT	USEPA 3540 C (Soxlet Extraction)	0.05 µg/l to 50 µg/l
		pp-DDT	USEPA 3620 B (Clean up) USEPA Method 8081 A	0.05 µg/l to 50 µg/l
		Alpha Endosulphan	(Organo Chlorine Analysis) USEPA 8141 B	0.05 µg/l to 50 µg/l
		Beta Endosulphan	(Organo Phosphorous Analysis)	0.05 µg/l to 50 µg/l
		Dieldrin		0.05 µg/l to 50 µg/l
		Aldrin		0.05 µg/l to 50 µg/l
		Malathion		0.07 µg/l to 500 µg/l
		Methyl Parathion		0.07 µg/l to 500 µg/l
		Anilophos		0.07 µg/l to 500 µg/l
		Chlorpyriphos		0.07 µg/l to 500 µg/l

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II. POLLUTION & ENVIRONMENT				
1.	Liquid Effluents	Ammoniacal Nitrogen	APHA (22 nd Edition): 2012 4500-NH ₃ B & 4500-NH ₃ D	0.1 mg/l to 1000 mg/l
		Fluoride	APHA (22 nd Edition): 2012 4500- F ⁻ B & 4500- F ⁻ C	0.1 mg/l to 50 mg/l
		Cyanide	APHA (22 nd Edition): 2012 4500-CN ⁻ C (distillation) and 4500- CN ⁻ F (determination)	0.1 mg/l to 20 mg/l
		Sodium	APHA (22 nd Edition): 2012 3500-Na A and 3500- Na B	1.32 mg/l to 4000 mg/l
		Potassium	APHA (22 nd Edition): 2012 3500-K B	1.19 mg/l 2000 mg/l
		Hexavalent Chromium	APHA (22 nd Edition): 2012 3500-Cr B	0.05 mg/l 1000 mg/l
		Lead	APHA (22 nd Edition): 2012 3030K & 3111B	0.1 mg/l to 10 mg/l
			APHA (22 nd Edition): 2012 3030K & 3111B	0.002 mg/l to 1 mg/l
		Copper	APHA (22 nd Edition): 2012 3030K & 3111B	0.1 mg/l to 10 mg/l
		Cadmium	APHA (22 nd Edition): 2012 3030K & 3111B	0.05 mg/l to 10 mg/l
		Zinc	APHA (22 nd Edition): 2012 3030K & 3111B	0.05 mg/l to 100 mg/l

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	Liquid Effluents	Nickel	APHA (22 nd Edition): 2012 3030K & 3111B	0.1 mg/l to 10 mg/l
		Chromium (Total)	APHA (22 nd Edition): 2012 3030K & 3111B	0.1 mg/l to 10 mg/l
		Manganese	APHA (22 nd Edition): 2012 3030K & 3111B	0.1 mg/l to 10 mg/l
		Cobalt	APHA (22 nd Edition): 2012 3030K & 3111B	0.1 mg/l to 10 mg/l
		Aluminium	APHA (22 nd Edition): 2012 3030K & 3111B	0.01 mg/l to 10 mg/l
		Iron	APHA (22 nd Edition): 2012 3030K & 3111B	0.1 mg/l to 100 mg/l
			APHA (22 nd Edition): 2012 3500-Fe B	0.05 mg/l to 100 mg/l
		Mercury	APHA (22 nd Edition): 2012 3112 B	0.001 mg/l to 1 mg/l
		Arsenic	APHA (22 nd Edition): 2012 3030K & 3114 B	0.002 mg/l to 0.1 mg/l
			APHA (22 nd Edition): 2012 3030K & 3113 B	0.005 mg/l to 0.1 mg/l
		Boron	APHA (22 nd Edition): 2012 4500-B C	0.1 mg/l to 10 mg/l

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	Liquid Effluents	Conductivity	APHA (22 nd Edition): 2012 2510 B	(1.0 µmho to 19000 µmho)/cm
		pH	APHA (22 nd Edition): 2012 4500 H ⁺ B	4.0 to 10
		Total Suspended solids	APHA (22 nd Edition): 2012 2540 D	4.0 mg/l to 5000 mg/l
		Total Dissolved Solids	APHA (22 nd Edition): 2012 2540 C	4.0 mg/l to 10000 mg/l
		Total solids	APHA (22 nd Edition): 2012 2540 B	4.0 mg/l to 10000 mg/l
		Dissolved oxygen	APHA (22 nd Edition): 2012 4500-O C	0.2 mg/l to 10 mg/l
		Biochemical Oxygen Demand	CL/WI/5.4/19 Issue No. 2; Issue date: 13.02.2015	2.0 mg/l to 200000 mg/l
		Chemical Oxygen Demand	APHA (22 nd Edition): 2012 5220 B & 5220 DUSEPA Method 410.4	4.0 mg/l to 900000 mg/l
		Total Kjeldahl Nitrogen	APHA (22 nd Edition): 2012 4500-N _{org} B, & 4500- NH ₃ C, 4500- NH ₃ D and DIN EN ISO 11905-1	0.5 mg/l to 50 mg/l
		Oil & Grease	APHA (22 nd Edition): 2012 5520 B	1.0 mg/l to 100 mg/l

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	Liquid Effluents	Turbidity	APHA (22 nd Edition): 2012 2130 B	0.7 NTU to 1000 NTU
		Nitrate Nitrogen	APHA (22 nd Edition): 2012 4500-NO ₃ ⁻ E	0.005 mg/l to 50 mg/l
		Nitrite Nitrogen	APHA (22 nd Edition): 2012 4500-NO ₂ ⁻ B	0.004 mg/l to 50 mg/l
		Phosphate-Phosphorus	APHA (22 nd Edition): 2012 4500- P B, 3030 K (digestion) & 4500-P D (determination);	0.005 mg/l to 300 mg/l
		Alkalinity	APHA (22 nd Edition): 2012 2320 B	11.0 mg/l to 750 mg/l
		Chloride	APHA (22 nd Edition): 2012 4500-Cl ⁻ B	6.12 mg/l to 6000 mg/l
		Total Hardness	APHA (22 nd Edition): 2012 2340 C	6.00 mg/l to 3000 mg/l
		Calcium	APHA (22 nd Edition): 2012 3500-Ca B	2.50 mg/l to 800 mg/l
		Magnesium	APHA (22 nd Edition): 2012 3500-Mg B	By Calculation
		Phenol	APHA (22 nd Edition): 2012 5530 B & 5530 D	0.25 mg/l to 50 mg/l
		Sulfate	APHA (22 nd Edition): 2012 4500-SO ₄ ²⁻ E	3.50 mg/l to 1000 mg/l

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	Liquid Effluents	Alpha BHC	APHA (22 nd Edition) : 2012 6630 B	0.05 µg/l to 50 µg/l
		Gamma BHC	USEPA Method 3510C (Lqd – Lqd Extraction)	0.05 µg/l to 50 µg/l
		op-DDT	USEPA 3540 C (Soxlet Extraction)	0.05 µg/l to 50 µg/l
		pp-DDT	USEPA 3620 B (Clean up)	0.05 µg/l to 50 µg/l
		Alpha Endosulphan	USEPA Method 8081 A (Organo Chlorine Analysis)	0.05 µg/l to 50 µg/l
		Beta Endosulphan	USEPA 8141 B (Organo Phosphorous Analysis)	0.05 µg/l to 50 µg/l
		Dieldrin		0.05 µg/l to 50 µg/l
		Aldrin		0.05 µg/l to 50 µg/l
		Malathion		0.07 µg/l to 500 µg/l
		Methyl Parathion		0.07 µg/l to 500 µg/l
		Anilophos		0.07 µg/l to 500 µg/l
		Chlorpyriphos		0.07 µg/l to 500 µg/l
2.	Hazardous Waste, Solid Waste and Soil	Lead	USEPA, SW - 846 method No. 3050 B & 3051 A	5 mg/kg to 1000 mg/kg
		Copper		5 mg/kg to 1000 mg/kg
		Cadmium		5 mg/kg to 1000 mg/kg
		Iron		5 mg/kg to 1000 mg/kg
		Nickel		5 mg/kg to 1000 mg/kg

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	Hazardous Waste, Solid Waste and Soil	Chromium (Total)	USEPA, SW - 846 method No. 3050 B & 3051 A	5 mg/kg to 1000 mg/kg
		Zinc		1 mg/kg to 2000 mg/kg
		Chromium (6+)	USEPA 3060A	1 mg/kg to 100 mg/kg
		Mercury	USEPA 7471B	1 mg/kg to 100 mg/kg
		Arsenic	USEPA 7061 A	1 mg/kg to 1000 mg/kg
		Metals by TCLP		
		Lead	USEPA 1311 USEPA SW 846, 7000 B	0.1 mg/l to 10 mg/l
		Cadmium	USEPA SW 846, 7000 B	0.05 mg/l to 10 mg/l
		Mercury	USEPA SW 846, 7470A	0.001 mg/l to 1 mg/l
		Arsenic	USEPA SW 846, 7061A	0.002 mg/l to 1 mg/l
	Chromium	USEPA SW 846, 7000 B	0.1 mg/l to 10 mg/l	
	Poly Aromatic Hydrocarbon (PAHs) from solid, sludge, soil, solid waste			
	Napthalene	USEPA, SW-846 Method No. 3540C (extraction), 3630C (clean up) & 8310 (determination)	100 mg/kg to 2000 mg/kg	
	Acenaphthylene		100 mg/kg to 2000 mg/kg	
	Acenaphthene		100 mg/kg to 2000 mg/kg	
	Fluorene		100 mg/kg to 2000 mg/kg	

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	Hazardous Waste, Solid Waste and Soil	Phenanthrene	USEPA, SW-846 Method No. 3540C (extraction), 3630C (clean up) & 8310 (determination)	100 mg/kg to 2000 mg/kg
		Anthracene		100 mg/kg to 2000 mg/kg
		Fluoranthene		100 mg/kg to 2000 mg/kg
		Pyrene		100 mg/kg to 2000 mg/kg
		Benzo (a) Anthracene		100 mg/kg to 2000 mg/kg
		Chrysene		100 mg/kg to 2000 mg/kg
		Benzo (b) Fluoranthene		100 mg/kg to 2000 mg/kg
		Benzo(k) Fluorethene		100 mg/kg to 2000 mg/kg
		Benzo (a) Pyrene		100 mg/kg to 2000 mg/kg
		Di-Benzo Anthracene		100 mg/kg to 2000 mg/kg
		Benzo(ghi) Pyrelene		100 mg/kg to 2000 mg/kg
		Indeno (1,2,3-cd) pyrene		100 mg/kg to 2000 mg/kg
	Sediment in crude oil and fuel oil	ASTM D 473-07	(0.01 to 10) % by mass	

III. AIR, GASES & ATMOSPHERE

1. Ambient Air	PM – 10	IS 5182 (Part 23): 2006	10.0 µg/m ³ to 3000 µg/m ³
	PM – 2.5	CL/WI/5.4/36 Issue. 2, Issue Date.13/02/2015	10.0 µg/m ³ to 400 µg/m ³
	Sulphur Dioxide (SO ₂) (Chemical)	IS 5182 (Part 2): 2001	4 µg/m ³ to 150 µg/m ³

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	Ambient Air	Oxides of Nitrogen (NO ₂)(Chemical)	IS 5182 (Part 6): 2006	9 µg/m ³ to 400 µg/m ³
		Ammonia (Indophenol Blue method)	CL/WI/5.4/37 Issue 2, Issue Date.13/02/2015	17 µg/m ³ to 200 µg/m ³
		PAH of Ambient Air Particulates		
		Napthalene	IS-5182 (Part 12), 2004 & NIOSH Method # 5506, Issue 3	10.1 ng/m ³ to 5000 ng/m ³
		Acenaphthylene		5.8 ng/m ³ to 5000 ng/m ³
		Acenaphthene		16.0 ng/m ³ to 5000 ng/m ³
		Fluorene		1.6 ng/m ³ to 5000 ng/m ³
		Phenanthrene		1.1 ng/m ³ to 5000 ng/m ³
		Anthracene		0.4 ng/m ³ to 5000 ng/m ³
		Fluoranthene		1.2 ng/m ³ to 5000 ng/m ³
		Pyrene		1.0 ng/m ³ to 5000 ng/m ³
		Benzo (a) Anthracene		0.4 ng/m ³ to 5000 ng/m ³
		Chrysene		0.3 ng/m ³ to 5000 ng/m ³
		Benzo (b) Fluoranthene		0.6 ng/m ³ to 5000 ng/m ³
		Benzo(k)Fluorethene		0.7 ng/m ³ to 5000 ng/m ³
		Benzo (a) Pyrene		0.6 ng/m ³ to 5000 ng/m ³

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	Ambient Air	Di-Benzo Anthracene	IS-5182 (Part 12), 2004 & NIOSH Method # 5506, Issue	5.9 ng/m ³ to 5000 ng/m ³
		Benzo(ghi) Pyrene		7.6 ng/m ³ to 5000 ng/m ³
		Indeno (1,2,3-cd) pyrene		2.1 ng/m ³ to 5000 ng/m ³
		Metals of Ambient Air		
		Lead	IS 5182 (Part 22): 2004 (RA 2009)	0.1 µg/m ³ to 50 µg/m ³
		Arsenic	USEPA Compendium Method IO- 3.1, 3.2	0.002 µg/m ³ to 50 µg/m ³
		Nickel	USEPA Compendium Method IO- 3.1, 3.2	0.005 µg/m ³ to 50 µg/m ³
2.	Ambient Noise	Ambient Noise level	IS 9989: 1981 & IS 4758: 1989	30 dB to 140 dB (A)
		Source specific noise	IS 9989: 1981 & IS 4758: 1989	30 dB to 140 dB (A)

-X-X-X-X-X-X-X-X-X-X-X-X-X-