

Laboratory	Central Pollution Control Board, Central Laboratory, Parivesh Bhawan, East Arjun Nagar, Delhi		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	15.09.2014
Certificate Number	T-0643	Valid Until	14.09.2016
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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. AIR, GASES & ATMOSPHERE				
1.	Ambient Air	SPM	IS 5182 (Part 4): 1999	5 µg/m ³ to 1000 µg/m ³
		RSPM (PM ₁₀)	ISC Method No. 501, Page No. 427-437 IS 5182 (Part 23): 2006	5 µg/m ³ to 1000 µg/m ³
		Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001	4 µg/m ³ to 1050 µg/m ³
		Oxides of Nitrogen (NO ₂)	IS 5182 (Part 6): 2006	6 µg/m ³ to 750 µg/m ³
2.	Metals in Ambient Air (Particulate) Chemical Method	Lead (Pb)	USEPA-IO3.2	2.2 ng/m ³ to 10000 ng/m ³
		Cadmium (Cd)	USEPA-IO3.2	0.2 ng/m ³ to 1000 ng/m ³
		Nickel (Ni)	USEPA-IO3.2	1.1 ng/m ³ to 5000 ng/m ³
		Chromium (Cr)	USEPA-IO3.2	0.7 ng/m ³ to 5000 ng/m ³
		Copper (Cu)	USEPA-IO3.2	0.4 ng/m ³ to 5000 ng/m ³
3.	Source/ Stack Emissions	Particulate Matter (PM)	IS 1125 (Part 1): 1985 (RA 2003)	1 mg/Nm ³ to 5000 mg/Nm ³
		Sulphur Dioxide (SO ₂)	IS 1125 (Part 2): 1985 (RA 2003)	4 mg/Nm ³ to 1000 mg/Nm ³

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II.	SOIL	pH	IS 2720 (Part 26) : 1987 (RA 2007)	2 to 14
		Conductivity	IS 14767: 2002	1 µmhos/cm to 40000 µmhos/cm
		Moisture	IS 2720 (Part II): 1973 (RA 2007)	0.1 % to 50 %
		Organic Matter	IS 2720 (Part 22): 1972 (RA 2006)	0.1 % to 20 %
		Sodium (Exchangeable)	CB/CL/SOP/S-5 Issue No. 2 Issue date 10.03.2014	10 mg/kg to 1000 mg/kg
		Potassium (Exchangeable)	CB/CL/SOP/S-6 Issue No. 2 Issue date 10.03.2014	10 mg/kg to 1000 mg/kg
		Calcium (Exchangeable)	CB/CL/SOP/07 Issue No. 2 Issue date 10.03.2014	5 mg/kg to 10000 mg/kg
		Magnesium (Exchangeable)	CB/CL/SOP/S-8 Issue No. 2 Issue date 10.03.2014	5 mg/kg to 5000 mg/kg
		Cation Exchange Capacity (CEC)	CB/CL/SOP/S-9 Issue No. 2 Issue date 10.03.2014	1 to 30
		Exchangeable Sodium Percent (ESP)	CB/CL/SOP/S-10 Issue No. 1 Issue date 10.03.2014	1 % to 30 %

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III. POLLUTION & ENVIRONMENT

1. Soil & Wastes (Sludge, Slurry, Powder)	Metal		
	Antimony	CB/CL/SOP/5.4/14/2014 Issue No. 01 Issue Date: 25.04.2014	0.08 mg/kg to 1.50 mg/kg
	Arsenic	(AAS Method) based on APHA (22 nd Edition) 3114 B: 2012	0.005 mg/kg to 2.00 mg/kg
	Selenium		0.07 mg/kg to 1.50 mg/kg
	Aluminium	CB/CL/SOP/5.4/14/2014 Issue No. 01 Issue Date: 25.04.2014	0.07 mg/kg to 5.00 mg/kg
	Cadmium	(AAS Method) based on APHA (22 nd Edition) 3111 B: 2012	0.04 mg/kg to 3.00 mg/kg
	Chromium		0.10 mg/kg to 15.00 mg/kg
	Cobalt	CB/CL/SOP/5.4/13/2014 Issue No. 01 Issue Date: 25.04.2014	0.02 mg/kg to 2.50 mg/kg
	Copper	(ICP Method) based on APHA (22 nd Edition) 3120 B: 2012	0.04 mg/kg to 10.00 mg/kg
	Iron		0.12 mg/kg to 15.00 mg/kg
	Lead		0.22 mg/kg to 30.00 mg/kg
	Manganese		0.06 mg/kg to 5.00 mg/kg
	Zinc		0.02 mg/kg to 2.00 mg/kg
	Nickel		0.06 mg/kg to 20.00 mg/kg

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	Soil & Wastes (Sludge, Slurry, Powder)	Vanadium	CB/CL/SOP/5.4/13/2014 Issue No. 01 Issue Date: 25.04.2014 (ICP Method) based on APHA (22 nd Edition) 3120 B: 2012	0.02 mg/kg to 5.00 mg/kg
		Mercury	CB/CL/SOP/5.4/14/2014 Issue No. 01 Issue Date: 25.04.2014 (AAS Method) based on APHA (22 nd Edition) 3112 B: 2012	0.80 µg/kg to 5.00 µg/kg
	Metal analysis in TCLP extract			
		Antimony	CB/CL/SOP/5.4/14/2014 Issue No. 01 Issue Date: 25.04.2014	0.08 mg/L to 1.50 mg/L
		Selenium	(AAS Method) based on APHA (22 nd Edition) 3114 B: 2012	0.07 mg/L to 1.50 mg/L
		Arsenic		0.005 mg/L to 2.00 mg/L
		Aluminum	CB/CL/SOP/5.4/14/2014 Issue No. 01 Issue Date: 25.04.2014	0.07 mg/L to 5.00 mg/L
		Cadmium	(AAS Method) based on APHA (22 nd Edition) 3111 B: 2012	0.04 mg/L to 3.00 mg/L
		Chromium		0.10 mg/L to 15.00 mg/L
		Cobalt	CB/CL/SOP/5.4/13/2014 Issue No. 01 Issue Date: 25.04.2014	0.02 mg/L to 2.50 mg/L
		Copper	(ICP Method) based on APHA (22 nd Edition) 3120 B: 2012	0.04 mg/L to 10.00 mg/L
		Iron		0.12 mg/L to 15.00 mg/L

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	Soil & Wastes (Sludge, Slurry, Powder)	Lead	CB/CL/SOP/5.4/13/2014 Issue No. 01 Issue Date: 25.04.2014	0.22 mg/L to 30.00 mg/L
		Manganese	(ICP Method) based on APHA (22 nd Edition) 3120 B: 2012	0.06 mg/L to 5.00 mg/L
		Zinc		0.02 mg/L to 2.00 mg/L
		Nickel		0.06 mg/L to 20.00 mg/L
		Vanadium	CB/CL/SOP/5.4/13/2014 Issue No. 01 Issue Date: 25.04.2014	0.02 mg/L to 5.00 mg/L
		Mercury	(ICP Method) based on APHA (22 nd Edition) 3120 B: 2012	
			CB/CL/SOP/5.4/14/2014 Issue No. 01 Issue Date: 25.04.2014	0.80 µg/L to 5.00 µg/L
			(AAS Method) based on APHA (22 nd Edition) 3112 B: 2012	
IV. WATER				
1.	Surface Water/ Ground Water	Conductivity	APHA (22 nd Edition) 2510 B, 2-54 to 2-55: 2012	1 µmhos/cm to 30000 µmhos/cm
		Total Dissolved Solids	APHA (22 nd Edition) 2540 C, 2-65: 2012	5 mg/L to 18000 mg/L
		Chemical Oxygen Demand	APHA (22 nd Edition) 5220 B, 5-17 to 5-18: 2012	5 mg/L to 200 mg/L
		Biochemical Oxygen Demand		
		5 Days at 20°C	APHA (22 nd Edition) 5210 B, 5-5 to 5-10: 2012, 4500 O C, 4-139 to 4-140: 2012	1 mg/L to 100 mg/L
		3 Days at 27°C	IS 3025 (Part 44): 1993	

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	Surface Water/ Ground Water	Chloride	APHA (22 nd Edition) 4500 Cl B, 4-72 to 4-73: 2012	5 mg/L to 600 mg/L
		Phosphate	APHA (22 nd Edition) 4500 P D, 4-154 to 4-155: 2012	0.05 mg/L to 10 mg/L
		Total Hardness (As CaCO ₃)	APHA (22 nd Edition) 2340 C, 2-44 to 2-47: 2012	10 mg/L to 900 mg/L
		Calcium	APHA (22 nd Edition) 3500 Ca B, 3-67 to 3-68: 2012	2.0 mg/L to 200 mg/L
		Magnesium	APHA (22 nd Edition) 3500 Mg B, 3-84: 2012	2.0 mg/L to 200 mg/L
		Fluoride	APHA (22 nd Edition) 4500 F D, 4-87 to 4-88: 2012 (SPADNS Method)	0.02 mg/L to 10 mg/L
		Heavy Metals		
		Antimony	APHA (22 nd Edition) 3114 B: 2012 APHA (22 nd Edition) 3120 B: 2012	0.08 mg/L to 1.50 mg/L
		Arsenic	APHA (22 nd Edition) 3111 B: 2012 APHA (22 nd Edition) 3120 B: 2012	0.005 mg/L to 2.00 mg/L
		Selenium		0.07 mg/L to 1.50 mg/L
		Cadmium		0.04 mg/L to 3.00 mg/L
		Chromium	APHA (22 nd Edition) 3112 B: 2012	0.10 mg/L to 15.00 mg/L
		Cobalt		0.02 mg/L to 2.50 mg/L

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	Surface Water/ Ground Water	Copper	APHA (22 nd Edition) 3112 B: 2012	0.04 mg/L to 10.00 mg/L
		Iron		0.12 mg/L to 15.00 mg/L
		Lead		0.22 mg/L to 30.00 mg/L
		Manganese		0.06 mg/L to 5.00 mg/L
		Nickel		0.06 mg/L to 20.00 mg/L
		Zinc	APHA (22 nd Edition) 3112 B: 2012	0.02 mg/L to 2.00 mg/L
		Mercury		0.80 µg/L to 5.00 µg/L
		Vanadium	APHA (22 nd Edition) 3120 B: 2012	0.02 mg/L to 5.00 mg/L
		Adsorbable Organic Halides (AOX)	DIN – 38409, Part 14/1985 APHA (22 nd Edition) 5320 B: 2012 USEPA, Method No.1650, May 1991	5.00 µg/L to 2500 µg/L
		Total and Dissolved Organic/ Inorganic Carbon	APHA (22 nd Edition) 5310 B: 2012	1.00 mg C/L to 25000 mg C/L
	Organo-chlorine pesticides (OCPs)			
	α-BHC	USEPA, Method No. 8141 B: 2007	0.05 pg/µL to 50 pg/µL	
	β-BHC			
	γ-BHC			
	Aldrin			
	α-Endosulfan			

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	Surface Water/ Ground Water	β -Endosulfan	USEPA, Method No. 8141 B: 2007	0.05 pg/ μ L to 50 pg/ μ L
		2,4-DDT		
		4,4-DDT		
		4,4-DDE		
		Dieldrin		
		Organo-phosphorus pesticides (OPPs)		
	Chloropyrifos	USEPA 508 (Fresh Water): 2007	0.02 μ g/L to 5 μ g/L	
	Dimethoate			
	Ethion			
	Malathion			
	Methyl Parathion			
	Polychlorinated Biphenyls (PCBs)			
	Aroclor 1016	USEPA, 551.1, 2007	2.0 μ g/L to 1000 μ g/L	
	Aroclor 1221			
	Aroclor 1232			
	Aroclor 1242			
	Aroclor 1248			
	Aroclor 1254			
	Aroclor 1260			

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2.	Waste Water	Conductivity	APHA (22 nd Edition) 2510 B, 2-54 to 2-55: 2012	1 µmhos/cm to 40000 µmhos/cm
		Suspended solids	APHA (22 nd Edition) 2540 D, 2-66 to 2-67: 2012	10 mg/L to 5000 mg/L
		Total Solids	APHA (22 nd Edition) 2540 B, 2-64: 2012	10 mg/L to 20000 mg/L
		Total Dissolved Solids	APHA (22 nd Edition) 2540 C, 2-65: 2012	10 mg/L to 15000 mg/L
		Chemical Oxygen Demand	APHA (22 nd Edition) 5220 B, 5-17 to 5-18: 2012	10 mg/L to 90000 mg/L
		Biochemical Oxygen Demand		
		5 Days at 20°C	APHA (22 nd Edition) 5210 B, 5-5 to 5-10: 2012, 4500 O C, 4-139 to 4-140: 2012	5 mg/L to 60000 mg/L
		3 Days at 27°C	IS 3025 (Part 44): 1993	
		Oil & Grease	APHA (22 nd Edition) 5520 B, 5-40: 2012	5 mg/L to 200 mg/L
		Phosphate	APHA (22 nd Edition) 4500 P D, 4- 154 to 4-155: 2012	0.05 mg/L to 10 mg/L
		Chloride	APHA (22 nd Edition) 4500 Cl B, 4- 72 to 4-73: 2012	5 mg/L to 2000 mg/L
		Heavy Metals		
		Antimony	APHA (22 nd Edition) 3111-B, 3112 B & 3114 B: 2012 APHA (22 nd Edition) 3120 B: 2012	0.08 mg/L to 1.50 mg/L

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	Waste Water	Arsenic	DIN – 38409, Part 14 / 1985	0.005 mg/L to 2.00 mg/L
		Cadmium	APHA (22 nd Edition) 5320 B: 2012 USEPA 1650, May 1991	0.04 mg/L to 3.00 mg/L
		Chromium		0.10 mg/L to 15.00 mg/L
		Cobalt		0.02 mg/L to 2.50 mg/L
		Copper		0.04 mg/L to 10.00 mg/L
		Iron	DIN – 38409, Part 14 / 1985	0.12 mg/L to 15.00 mg/L
		Lead	APHA (22 nd Edition) 5320 B: 2012 USEPA 1650, May 1991	0.22 mg/L to 30.00 mg/L
		Manganese		0.06 mg/L to 5.00 mg/L
		Mercury		0.80 µg/L to 5.00 µg/L
		Nickel		0.06 mg/L to 20.00 mg/L
		Selenium		0.07 mg/L to 1.50 mg/L
		Vanadium		0.02 mg/L to 5.00 mg/L
		Zinc		0.02 mg/L to 2.00 mg/L
		Adsorbable Organic Halides (AOX)		5.00 µg/L to 2500 µg/L
		Total and Dissolved Organic/ Inorganic Carbon	APHA (22 nd Edition) 5310 B: 2012	1.00 mg C/L to 25000 mg C/L

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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
	Waste Water	Organo-chlorine pesticides (OCPs)	USEPA Method No. 8141 B: 2007	0.05 pg/μL to 50 pg/μL
		α-BHC		
		β-BHC		
		γ-BHC		
		Aldrin		
		α-Endosulfan		
		β-Endosulfan		
		2,4'-DDT		
		4,4'-DDT		
		4,4'-DDE		
		Dieldrin		
		Organo-phosphorus pesticides (OPPs)		
		Chloropyrifos	USEPA, 8082 (Waste Water), 2007	0.50 μg/L to 5 μg/L
		Dimethoate		
		Ethion		
		Malathion		
		Methyl Parathion		

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	Waste Water	Polychlorinated Biphenyls (PCBs)		
		Aroclor 1016	USEPA 8082 (Waste Water), 2007	2.0 mg/L to 1000 mg/L
		Aroclor 1221		
		Aroclor 1232		
		Aroclor 1242		
		Aroclor 1248		
		Aroclor 1254		
		Aroclor 1260		

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AT SITE – 1 (Monitoring Station at BSZ Marg, Pragati Maidan near ITO)

I. AIR, GASES & ATMOSPHERE

1. Ambient Air (Manual Methods)	SPM	IS 5182 (Part 4): 1999	5 µg/m ³ to 1000 µg/m ³
	RSPM (PM ₁₀)	ISC Method No. 501, Page No. 427-437 IS 5182 (Part 23): 2006	5 µg/m ³ to 1000 µg/m ³
	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001	4 µg/m ³ to 1050 µg/m ³
	Oxides of Nitrogen (NO _x)	IS 5182 (Part 6): 2006	6 µg/m ³ to 750 µg/m ³
	Ozone (O ₃)	ISC 411, Page No. 403-406, 3 rd Edition: 1989	19.6 µg/m ³ to 19620 µg/m ³
2. Ambient Air (On-Line Instrumental Methods)	Sulphur Dioxide (SO ₂)	ISO 10498.2: 1999	3 µg/m ³ to 1310 µg/m ³
	Oxides of Nitrogen (NO _x)	ISC 416, Page No. 415-421, 3 rd Edition: 1989	2 µg/m ³ to 940 µg/m ³
	Carbon Monoxide (CO)	ISO 4224: 1999	1.2 µg/m ³ to 114.5 µg/m ³
	Ozone (O ₃)	ISC 417, Page No. 422-426, 3 rd Edition: 1989	2 µg/m ³ to 980 µg/m ³
3. Ambient Air (On-Line Instrumental Methods)	Particulate matter Size <2.5 µm (PM _{2.5} Analyser)	CB/CL/SOP/AQ6 Issue No.01, Issue date 29.04.2014, based on EQPM -0308-170 for PM _{2.5} by USEPA	5 µg/m ³ to 1000 µg/m ³

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AT SITE – 2 (Monitoring Station at Delhi Technical University Campus)

I. AIR, GASES & ATMOSPHERE

1. Ambient Air (On-Line Instrumental Methods)	Sulphur Dioxide (SO ₂)	ISO 10498.2: 1999	3 µg/m ³ to 1310 µg/m ³
	Oxides of Nitrogen (NO _x)	ISC 416, Page No. 415-421, 3 rd Edition: 1989	2 µg/m ³ to 940 µg/m ³
	Carbon Monoxide (CO)	ISO 4224:1999	1.2 µg/m ³ to 114.5 µg/m ³
	Ozone (O ₃)	ISC 417, Page No. 422-426, 3 rd Edition: 1989	2 µg/m ³ to 980 µg/m ³
2. Ambient Air (On-Line Instrumental Methods)	Particulate matter Size <10µm (PM ₁₀ Analyser)	CB/CL/SOP/AQ6 Issue No.01, Issue date 29.04.2014, based on EQPM -0798-122 for PM ₁₀ by USEPA	5 µg/m ³ to 1000 µg/m ³
3. Meteorological Parameters	Relative humidity	CB/CL/TM/5.4/C-1 Issue No.02, Issue date 24.03.2003, based on manual Thies Clima, Adolf Thies GMBH+ CO K, Goothingen	5 % to 100 %
	Temperature	CB/CL/TM/5.4/C-1 Issue No.02, Issue date 24.03.2003, based on manual Thies Clima, Adolf Thies GMBH+ CO K, Goothingen	-10 °C to 60 °C

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AT SITE

I. AIR, GASES & ATMOSPHERE

1. Source/ Stack Emissions	Carbon Monoxide (CO)	USEPA, CFR, Title 40, Part 60, 3A Electrochemical Method (Flue Gas Analyser)	0 to 10000 ppm
	Carbon Dioxide (CO ₂)	USEPA, CFR, Title 40, Part 60, 3A Electrochemical Method (Flue Gas Analyser)	0 to 20 % v/v
	Oxides of Nitrogen (NO ₂) Chemical method	USEPA, CFR, Title 40, Part 60, 7, Page No. 470-476 Electrochemical Method (Flue Gas Analyser)	2 mg/Nm ³ to 400 mg/Nm ³
2. Vehicular Emissions	Carbon Monoxide (CO)	ISO 3930: 2000	0 to 7 %
	Hydrocarbon (HC) (n-Hexane Equivalent)		0 to 2000 ppm

II. NOISE

1. Ambient Noise Levels	Equivalent Sound level Leq in dB (A) in ambient ai	ISO 1996-1: 2003 ISO 1996-2: 2007	30 Leq db (A) to 130 Leq db (A)
2. Source Noise Levels	A –weighted Sound Pressure Level in dB (A) at 1 m from enclosures surface for generators	ISO 1996-1: 2003 ISO 1996-2: 2007	30 db (A) to 130 db (A)

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