



NABL

National Accreditation Board for Testing and Calibration Laboratories

(An Autonomous Body under Department of Science & Technology, Govt. of India)

CERTIFICATE OF ACCREDITATION

CENTRAL POLLUTION CONTROL BOARD, CENTRAL LABORATORY

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

Parivesh Bhawan, East Arjun Nagar, Delhi

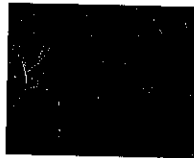
in the discipline of

CHEMICAL TESTING

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Certificate Number T-0643

Issue Date 15/09/2016



Valid Until 14/09/2018

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the additional requirements of NABL.

Signed for and on behalf of NABL

N. Venkateswaran
Program Manager

Anil Relia
Director

Prof. S. K. Joshi
Chairman



रा.प्र.प्र.बो.

राष्ट्रीय परीक्षण और अंशशोधन प्रयोगशाला प्रत्यायन बोर्ड

(विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार के अधीन स्वायत्तशासी निकाय)

प्रत्यायन प्रमाण-पत्र

केन्द्रीय प्रदूषण नियंत्रण बोर्ड, केन्द्रीय प्रयोगशाला

का मूल्यांकन और प्रत्यायन निम्न मानक के अनुसार

आई.एस.ओ./आई.ई.सी. 17025:2005

“परीक्षण एवं अंशशोधन प्रयोगशालाओं की सक्षमता की सामान्य अपेक्षाएँ”

दिल्ली

में स्थित इसकी सुविधाओं के लिए

रासायनिक परीक्षण

के विषय क्षेत्र में किया गया।

(इस प्रयोगशाला के प्रत्यायन के विषय क्षेत्र की जानकारी एन ए बी एल वेबसाइट www.nabl-india.org से भी प्राप्त कर सकते हैं)

प्रमाण-पत्र संख्या प-0643

जारी करने की तिथि 15/09/2016

वैधता की तिथि 14/09/2018

यह प्रमाण-पत्र उपर्युक्त मानक तथा राष्ट्रीय परीक्षण और अंशशोधन प्रयोगशाला प्रत्यायन बोर्ड की अतिरिक्त अपेक्षाओं का निरंतर संतोषप्रद अनुपालन किए जाने पर अनुबंध में निर्दिष्टानुसार प्रत्यायन के क्षेत्र के लिए वैध रहेगा।

रा.प्र.प्र.बो. की ओर से हस्ताक्षरित

एन. वेंकटेश्वरन

एन. वेंकटेश्वरन
कार्यक्रम प्रबन्धक

अनिल रेलिया

अनिल रेलिया
निदेशक

श्रीकृष्ण जोशी

प्रॉ. श्रीकृष्ण जोशी
अध्यक्ष



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SCOPE OF ACCREDITATION

Laboratory Central Pollution Control Board, Central Laboratory, Parivesh Bhawan,
East Arjun Nagar, Delhi

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 15.09.2016

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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
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AT LABORATORY

I. ATMOSPHERIC POLLUTION

1.	Ambient Air	SPM	IS 5182 (Part 4): 1999 (RA 2010)	5 µg/m ³ to 1000 µg/m ³
		Particulate matter (PM ₁₀)	IS-5182 (Part 23): 2006 (RA 2012)	5 µg/m ³ to 1000 µg/m ³
		Particulate matter (PM _{2.5})	CB/CL/SOP/AQ/10 Issue No.: 01 Issue Date: 16.03.2016	2 µg/m ³ to 200 µg/m ³
		NH ₃	CB/CL/SOP/AQ/11 Issue No.: 01 Issue Date: 16.03.2016	20 µg/m ³ to 700 µg/m ³
		Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001 (RA 2012)	4 µg/m ³ to 1050 µg/m ³
		Nitrogen Dioxide (NO ₂)	IS 5182 (Part 6): 2006 (RA 2012)	6 µg/m ³ to 750 µg/m ³
		Particulate Benzo-a-Pyrene (BaP)	IS 5182 (Part 12): 2004 (RA 2009)	0.9 ng/m ³ to 50 ng/m ³
		Benzene	IS 5182 (Part 11): 2006 (RA 2012)	1.8 µg/m ³ to 80 µg/m ³
		Cations in Particulate matter		
		Lithium	EPA/625/R-96/010a: 1999 USEPA IO-4.2: 1999	0.04 µg/m ³ to 100 µg/m ³
		Sodium		0.25 µg/m ³ to 100 µg/m ³
		Ammonium		0.20 µg/m ³ to 100 µg/m ³
		Potassium		0.1 µg/m ³ to 100 µg/m ³

Deepak

Deepak Kumar Sharma
Convenor

N. Venkateswaran

N. Venkateswaran
Program Manager



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	Ambient Air	Magnesium	EPA/625/R-96/010a: 1999 USEPA IO-4.2: 1999	0.1 $\mu\text{g}/\text{m}^3$ to 100 $\mu\text{g}/\text{m}^3$
		Calcium		0.25 $\mu\text{g}/\text{m}^3$ to 100 $\mu\text{g}/\text{m}^3$
		Strontium		0.1 $\mu\text{g}/\text{m}^3$ to 100 $\mu\text{g}/\text{m}^3$
		Barium		0.1 $\mu\text{g}/\text{m}^3$ to 100 $\mu\text{g}/\text{m}^3$
		Anions in Particulate matter		
		Fluoride	EPA/625/R-96/010a: 1999 USEPA IO-4.2: 1999	0.05 $\mu\text{g}/\text{m}^3$ to 100 $\mu\text{g}/\text{m}^3$
		Chloride		0.1 $\mu\text{g}/\text{m}^3$ to 100 $\mu\text{g}/\text{m}^3$
		Nitrite		0.1 $\mu\text{g}/\text{m}^3$ to 100 $\mu\text{g}/\text{m}^3$
		Sulphate		0.5 $\mu\text{g}/\text{m}^3$ to 100 $\mu\text{g}/\text{m}^3$
		Phosphate		0.25 $\mu\text{g}/\text{m}^3$ to 100 $\mu\text{g}/\text{m}^3$
		Bromide		0.25 $\mu\text{g}/\text{m}^3$ to 100 $\mu\text{g}/\text{m}^3$
		Nitrate		0.5 $\mu\text{g}/\text{m}^3$ to 100 $\mu\text{g}/\text{m}^3$
		Metals		
		Pb	EPA/625/R-96/010a: 1999 USEPA IO-3.2: 1999	6.9 ng/m^3 to 10000 ng/m^3
		Cd		1.4 ng/m^3 to 1000 ng/m^3
		Ni		6.9 ng/m^3 to 5000 ng/m^3
		Cr		4.2 ng/m^3 to 5000 ng/m^3
		Cu		2.1 ng/m^3 to 5000 ng/m^3
		As		0.7 ng/m^3 to 1000 ng/m^3

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2.	Stack Emissions	Particulate Matter (PM)	IS 11255 (Part 1): 1985 (RA 2009) IS 11255 (Part 3): 2008	1 mg/Nm ³ to 5000 mg/Nm ³
		Sulphur Dioxide (SO ₂)	IS 11255 (Part 2): 1985 (RA 2003)	3 mg/Nm ³ to 1000 mg/Nm ³
		Oxides of Nitrogen as NO ₂	IS 11255 (Part 7): 2005 (RA 2012)	2 mg/Nm ³ to 400 mg/Nm ³
		HF	USEPA 26: 1999	1 mg/Nm ³ to 20 mg/Nm ³
		HCl	USEPA 26 A: 1999	1 mg/Nm ³ to 20 mg/Nm ³
3.	Meteorological Parameters	Temperature	CB/CL/SOP/AQ/13 Issue Date: 16.03.2016	(-) 10 °C to 80 °C
		Relative humidity	CB/CL/SOP/AQ/13 Issue Date: 16.03.2016	1 % to 100 %
		Atmospheric Pressure	CB/CL/SOP/AQ/13 Issue Date: 16.03.2016	300 hpa to 1100 hpa
		Wind speed	CB/CL/SOP/AQ/13 Issue Date: 16.03.2016	0.01 m/s to 60 m/s
		Wind direction	CB/CL/SOP/AQ/13 Issue Date: 16.03.2016	0 to 360°
		Solar radiation	CB/CL/SOP/AQ/13 Issue Date: 16.03.2016	0 to 1400 W/m ²
		Rain fall	CB/CL/SOP/AQ/13 Issue Date: 16.03.2016	0 to 11 mm/minute

Deepak

Deepak Kumar Sharma
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N. Venkateswaran

N. Venkateswaran
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II. POLLUTION & ENVIRONMENT				
1.	Waste Water	Conductivity	APHA (22 nd Edition) 2510 B: 2012, 2-54 to 2-55	1 μ hos/cm to 40000 μ hos/cm
		Suspended solids	APHA (22 nd Edition) 2540 D: 2012, 2-66 to 2-67	10 mg/L to 5000 mg/L
		Total Solids	APHA (22 nd Edition) 2540 B: 2012, 2-64	10 mg/L to 20000 mg/L
		Total Dissolved Solids	APHA (22 nd Edition) 2540 C: 2012, 2-65	10 mg/L to 15000 mg/L
		Chemical Oxygen Demand	APHA (22 nd Edition) 5220 B: 2012, 5-17 to 5-18	10 mg/L to 90000 mg/L
		Bio-chemical Oxygen Demand 5 days at 20 °C	APHA (22 nd Edition) 5210 B: 2012, 5-5 to 5-10 APHA (22 nd Edition) 4500 O C: 2012, 4-139 to 4-140	5 mg/L to 60000 mg/L
		3 Days at 25 °C	IS 3025 (Part 44): 1993	
		Oil & Grease	APHA (22 nd Edition) 5520 B: 2012, 5-40	5 mg/L to 200 mg/L
		Phosphate-P	APHA (22 nd Edition) 4500 PD: 2012, 4-154 to 4-155	0.05 mg/L to 10 mg/L
		Chloride	APHA (22 nd Edition) 4500 Cl B: 2012, 4-72 to 4-73	5 mg/L to 2000 mg/L
		pH	APHA (22 nd Edition) 4500 H ⁺ B: 2012, 4-92 to 4-96	2 to 14

Deepak

Deepak Kumar Sharma
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Program Manager



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	Waste Water	NH ₃ -N	APHA (22 nd Edition) 4500 NH ₃ B & C: 2012, 4-110 to 4-112	1 mg/L to 100 mg/L
		Cr ⁺⁶	APHA (22 nd Edition) 3500 Cr- B: 2012, 3-69 to 3-70	0.1 mg/L to 10 mg/L
		Heavy Metals		
		Arsenic	APHA (22 nd Edition) 3114 B: 2012 (AAS Method)	0.01 mg/L to 5 mg/L
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 2.00 mg/L
		Cadmium	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.02 mg/L to 1.00 mg/L
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 2.00 mg/L
		Chromium	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.06 mg/L to 5.00 mg/L
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 1.50 mg/L
		Copper	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.03 mg/L to 5.00 mg/L
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 2.00 mg/L
		Iron	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.06 mg/L to 10.00 mg/L
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 5.00 mg/L

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	Waste Water	Lead	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.10 mg/L to 5.00 mg/L
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 5.00 mg/L
		Manganese	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.02 mg/L to 5.00 mg/L
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 2.00 mg/L
		Nickel	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.10 mg/L to 5.00 mg/L
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 5.00 mg/L
		Zinc	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.01 mg/L to 1.00 mg/L
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 5.00 mg/L
		Mercury	APHA (22 nd Edition) 3112 B: 2012 (AAS Method)	1.0 µg/L to 5.0 µg/L
		Antimony	APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 1.50 mg/L
		Cobalt	APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 2.50 mg/L
		Selenium	APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 1.50 mg/L

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	Waste Water	Vanadium	APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 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: 1991	5.00 µg/L to 2500 µg/L
		Total and Dissolved Organic/Inorganic Carbon	APHA (22 nd Edition) 5310 B: 2012	1.0 mg C/L to 25000 mg C/L
		Organo-chlorine pesticides (OCPs)		
		α-BHC	USEPA Method No. 8081B: 2007	0.05 µg/L to 50 µg/L
		β-BHC	USEPA Method No. 8081B: 2007	0.05 µg/L to 50 µg/L
		γ-BHC	USEPA Method No. 8081B: 2007	0.05 µg/L to 50 µg/L
		Aldrin	USEPA Method No. 8081B: 2007	0.05 µg/L to 50 µg/L
		α-Endosulfan	USEPA Method No. 8081B: 2007	0.05 µg/L to 50 µg/L
		β-Endosulfan	USEPA Method No. 8081B: 2007	0.05 µg/L to 50 µg/L
		2,4-DDT	USEPA Method No. 8081B: 2007	0.05 µg/L to 50 µg/L
		4,4-DDT	USEPA Method No. 8081B: 2007	0.05 µg/L to 50 µg/L
		4,4-DDE	USEPA Method No. 8081B: 2007	0.05 µg/L to 50 µg/L
		Dieldrin	USEPA Method No. 8081B: 2007	0.05 µg/L to 50 µg/L
		Organo-phosphorus pesticides (OPPs)		
		Chloropyrifos	USEPA Method No. 8141B: 2007	0.50 µg/L to 5 µg/L
		Dimethoate	USEPA Method No. 8141B: 2007	0.50 µg/L to 5 µg/L

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	Waste Water	Ethion	USEPA Method No. 8141B: 2007	0.50 µg/L to 5 µg/L
		Malathion	USEPA Method No. 8141B: 2007	0.50 µg/L to 5 µg/L
		Methyl Parathion	USEPA Method No. 8141B: 2007	0.50 µg/L to 5 µg/L
		Polychlorinated Biphenyls (PCBs)		
		Aroclor 1016	USEPA 8082A (Waste Water): 2007	0.02 µg/L to 1000 µg/L
		Aroclor 1221	USEPA 8082A (Waste Water): 2007	2 µg/L to 1000 µg/L
		Aroclor 1232	USEPA 8082A (Waste Water): 2007	2 µg/L to 1000 µg/L
		Aroclor 1242	USEPA 8082A (Waste Water): 2007	2 µg/L to 1000 µg/L
		Aroclor 1248	USEPA 8082A (Waste Water): 2007	2 µg/L to 1000 µg/L
		Aroclor 1254	USEPA 8082A (Waste Water): 2007	2 µg/L to 1000 µg/L
		Aroclor 1260	USEPA 8082A (Waste Water): 2007	2 µg/L to 1000 µg/L
2.	Soil/Sediments	pH	IS 2720 (Part 26): 1987 (RA 2007)	2 to 14
		Conductivity	IS 14767: 2002	1 µmhos/cm to 40,000 µmhos/cm
		Moisture	IS 2720 (Part 2): 1973 (RA 2007)	0.1 % to 50 %

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	Soil/Sediments	Organic Matter	IS 2720 (Part 22): 1972 (RA 2006)	0.5 % 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/SOIL/SOP/07 Issue No.: 2 Issue Date: 10.03.2014	5 mg/kg to 10000 mg/kg
		Magnesium (Exchangeable)	CB/CL/SOP/S-7 Issue No.: 2 Issue Date: 10.03.2014	5 mg/kg to 5000 mg/kg
		Cation Exchange Capacity (CEC)	CB/CL/SOP/S-8 Issue No.: 2 Issue Date: 10.03.2014	1 meq/100g to 30 meq/100g
		Exchangeable Sodium Percent (ESP)	CB/CL/SOP/S-9 Issue No.: 2 Issue Date: 10.03.2014	1 % to 30 %
3.	Sludge/ Slurry/ Powder	Arsenic	APHA (22 nd Edition) 3114 B: 2012 (AAS Method) APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	1.0 mg/kg to 5.0 mg/kg 1.0 mg/kg to 200.0 mg/kg
		Cadmium	APHA (22 nd Edition) 3111 B: 2012 (AAS Method) APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	2.0 mg/kg to 100.0 mg/kg 1.0 mg/kg to 200.0 mg/kg

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	Sludge/ Slurry/ Powder	Chromium	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	6.0 mg/kg to 500.0 mg/kg
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	1.0 mg/kg to 150.0 mg/kg
		Copper	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	3.0 mg/kg to 500.0 mg/kg
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	1.0 mg/kg to 200.0 mg/kg
		Iron	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	6.0 mg/kg to 1000.0 mg/kg
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	1.0 mg/kg to 500.0 mg/kg
		Lead	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	10 mg/kg to 500.0 mg/kg
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	1.0 mg/kg to 500.0 mg/kg
		Manganese	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	2.0 mg/kg to 500.0 mg/kg
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	1.0 mg/kg to 200.0 mg/kg
		Nickel	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	10.0 mg/kg to 500.0 mg/kg
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	1.0 mg/kg to 500.0 mg/kg
	Zinc		APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	1.0 mg/kg to 100.0 mg/kg

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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
	Sludge/ Slurry/ Powder	Mercury	APHA (22 nd Edition) 3112 B: 2012, (AAS Method)	0.5 mg/kg to 2.5 mg/kg
		Aluminum	APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	1.0 mg/kg to 500.0 mg/kg
		Antimony	APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	1.0 mg/kg to 150.0 mg/kg
		Cobalt	APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	1.0 mg/kg to 250.0 mg/kg
		Selenium	APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	1.0 mg/kg to 150.0 mg/kg
		Vanadium	APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	1.0 mg/kg to 500.0 mg/kg
		4.	Solid & Hazardous Waste (Metal analysis in TCLP extract-Extraction Method USEPA Test method 1311- TCLP, Toxic Characteristic Leaching procedure, 1992)	Arsenic
		APHA (22 nd Edition) 3120 B: 2012 (ICP Method)		0.01 mg/L to 2.00 mg/L
	Cadmium	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)		0.02 mg/L to 1.00 mg/L
		APHA (22 nd Edition) 3120 B: 2012 (ICP Method)		0.01 mg/L to 2.00 mg/L
		Chromium	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.06 mg/L to 5.00 mg/L
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 1.50 mg/L

Deepak

Deepak Kumar Sharma
Convenor

N. Venkateswaran

N. Venkateswaran
Program Manager



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	Solid & Hazardous Waste (Metal analysis in TCLP extract-Extraction Method USEPA Test method 1311- TCLP, Toxic Characteristic Leaching procedure, 1992)	Copper	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.03 mg/L to 5.00 mg/L	
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 2.00 mg/L	
		Iron	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.06 mg/L to 10.00 mg/L	
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 5.00 mg/L	
		Lead	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.10 mg/L to 5.00 mg/L	
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 5.00 mg/L	
		Manganese	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.02 mg/L to 5.00 mg/L	
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 2.00 mg/L	
		Nickel	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.10 mg/L to 5.00 mg/L	
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 5.00 mg/L	
III. 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	

Deepak

Deepak Kumar Sharma
Convenor

N. Venkateswaran

N. Venkateswaran
Program Manager



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	Surface Water/ Ground Water	Chemical Oxygen Demand	APHA (22 nd Edition) 5220 B 5-17 to 5-18: 2012	5 mg/L to 200 mg/L
		Bio-chemical Oxygen Demand 5 days at 20 °C	APHA (22 nd Edition) 5210 B 5-5 to 5-10: 2012 APHA (22 nd Edition) 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	
	Chloride		APHA (22 nd Edition) 4500 Cl B 4-72 to 4-73: 2012	5 mg/L to 600 mg/L
	Phosphate-P		APHA (22 nd Edition) 4500 PD 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		APIA (22 nd Edition) 3500 Ca B 3-67 to 3-68: 2012	2 mg/L to 200 mg/L
	Magnesium		APHA (22 nd Edition) 3500 Mg B 3-84: 2012	2 mg/L to 200 mg/L
	Fluoride		APHA (22 nd Edition) 4500 F D 4-87 to 4-88: 2012 (SPADNS Method)	0.01 mg/L to 10 mg/L
	pH		APHA (22 nd Edition) 4500 H ⁺ B 4- 92 to 4-96: 2012	2 to 14
	NO ₂ -N		APHA (22 nd Edition) 4500 NO ₂ B 4-120 to 4-121: 2012	0.01 mg/L to 2 mg/L
	NH ₃ -N		IS 3025 (Part 34): 1988	0.2 mg/L to 20 mg/L

Deepak

Deepak Kumar Sharma
Convenor

N. Venkateswaran

N. Venkateswaran
Program Manager



NABL

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IV. RESIDUE IN WATER				
1.	Surface Water/ Ground Water	Arsenic	APHA (22 nd Edition) 3114 B: 2012 (AAS Method)	0.01 mg/L to 5 mg/L
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 2.00 mg/L
		Cadmium	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.02 mg/L to 1.00 mg/L
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 2.00 mg/L
		Chromium	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.06 mg/L to 5.00 mg/L
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 1.50 mg/L
		Copper	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.03 mg/L to 5.00 mg/L
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 2.00 mg/L
		Iron	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.06 mg/L to 10.00 mg/L
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 5.00 mg/L
		Lead	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.10 mg/L to 5.00 mg/L
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 5.00 mg/L

Deepak

Deepak Kumar Sharma
Convenor

N. Venkateswaran

N. Venkateswaran
Program Manager



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	Surface Water/ Ground Water	Manganese	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.02 mg/L to 5.00 mg/L
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 2.00 mg/L
		Nickel	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.10 mg/L to 5.00 mg/L
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 5.00 mg/L
		Zinc	APHA (22 nd Edition) 3111 B: 2012 (AAS Method)	0.01 mg/L to 1.00 mg/L
			APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 mg/L to 5.00 mg/L
		Mercury	APHA (22 nd Edition) 3112 B: 2012 (AAS Method)	1.0 µg/L to 5.0 µg/L
		Vanadium	APHA (22 nd Edition) 3120 B: 2012 (ICP Method)	0.01 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: 1991	5.00 µg/L to 2500 µg/L
		Total and Dissolved Organic/Inorganic Carbon	APHA (22 nd Edition) 5310 B: 2012	1.0 mg C/L to 25000 mg C/L
		Organo-chlorine pesticides (OCPs)		
		α-BHC	USEPA Method No. 8081B: 2007	0.05 µg/L to 50 µg/L
		β-BHC	USEPA Method No. 8081B: 2007	0.05 µg/L to 50 µg/L

Deepak

Deepak Kumar Sharma
Convenor

N. Venkateswaran

N. Venkateswaran
Program Manager



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	Surface Water/ Ground Water	γ-BHC	USEPA Method No. 8081B: 2007	0.05 µg/L to 50 µg/L	
		Aldrin	USEPA Method No. 8081B: 2007	0.05 µg/L to 50 µg/L	
		α-Endosulfan	USEPA Method No. 8081B: 2007	0.05 µg/L to 50 µg/L	
		β-Endosulfan	USEPA Method No. 8081B: 2007	0.05 µg/L to 50 µg/L	
		2,4-DDT	USEPA Method No. 8081B: 2007	0.05 µg/L to 50 µg/L	
		4,4-DDT	USEPA Method No. 8081B: 2007	0.05 µg/L to 50 µg/L	
		4,4-DDE	USEPA Method No. 8081B: 2007	0.05 µg/L to 50 µg/L	
		Dieldrin	USEPA Method No. 8081B: 2007	0.05 µg/L to 50 µg/L	
		Organo-phosphorus pesticides (OPPs)			
		Chloropyrifos	USEPA Method No. 8141B: 2007	0.50 µg/L to 5 µg/L	
	Dimethoate	USEPA Method No. 8141B: 2007	0.50 µg/L to 5 µg/L		
	Ethion	USEPA Method No. 8141B: 2007	0.50 µg/L to 5 µg/L		
	Malathion	USEPA Method No. 8141B: 2007	0.50 µg/L to 5 µg/L		
	Methyl Parathion	USEPA Method No. 8141B: 2007	0.50 µg/L to 5 µg/L		
	Polychlorinated Biphenyls (PCBs)				
	Aroclor 1016	USEPA Method No. 8082A: 2007	2.0 µg/L to 1000 µg/L		
	Aroclor 1221	USEPA Method No. 8082A: 2007	2.0 µg/L to 1000 µg/L		
	Aroclor 1232	USEPA Method No. 8082A: 2007	2.0 µg/L to 1000 µg/L		
	Aroclor 1242	USEPA Method No. 8082A: 2007	2.0 µg/L to 1000 µg/L		
	Aroclor 1248	USEPA Method No. 8082A: 2007	2.0 µg/L to 1000 µg/L		
	Aroclor 1254	USEPA Method No. 8082A: 2007	2.0 µg/L to 1000 µg/L		
	Aroclor 1260	USEPA Method No. 8082A: 2007	2.0 µg/L to 1000 µg/L		

Deepak

Deepak Kumar Sharma
Convenor

N. Venkateswaran

N. Venkateswaran
Program Manager



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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
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AT SITE

I. ATMOSPHERIC POLLUTION

1.	Stack Emissions	Carbon Monoxide (CO)	CB/CL/SOP/SE/5.7/3 Issue No.: 01 Issue Date: 20.06.2016	1.145 mg/m ³ to 11450 mg/m ³
		Oxygen (O ₂)		0 to 25 %
		Carbon Dioxide (CO ₂)		0 to 50 %
2.	Ambient Noise Level	Leq dB(A)	CB/CL/SOP/AQ8 Issue No.: 01 Issue Date: 29.04.2014	30 Leq dB(A) to 130 dB(A)

SITE 1: MONITORING STATION AT BSZ MARG, PRAGATI MAIDAN NEAR ITO

I. ATMOSPHERIC POLLUTION

1.	Ambient Air	Particulate matter (PM ₁₀)	IS 5182 (Part 23): 2006 (RA 2012)	5 µg/m ³ to 1000 µg/m ³
		Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001 (RA 2012)	4 µg/m ³ to 1050 µg/m ³
		Nitrogen Dioxide (NO ₂)	IS 5182 (Part 6): 2006 (RA 2012)	6 µg/m ³ to 750 µg/m ³

SITE 2: MONITORING STATION AT IHBAS, DILSHAD GARDEN

I. ATMOSPHERIC POLLUTION

1.	Ambient Air	SO ₂	ISO (1 st Edition) 10498: 2004 (E)	3 µg/m ³ to 1310 µg/m ³
		Oxides of Nitrogen	CB/CL/SOP/AQ2 Issue No.: 01 Issue Date: 29.04.2014	2 µg/m ³ to 940 µg/m ³

Deepak

Deepak Kumar Sharma
Convenor

N. Venkateswaran

N. Venkateswaran
Program Manager



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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
	Ambient Air	Carbon Monoxide	ISO (1 st Edition) 4224: 2000 (E)	114.5 $\mu\text{g}/\text{m}^3$ to 22900 $\mu\text{g}/\text{m}^3$
		Particulate Matter (PM _{2.5})	CB/CL/SOP/AQ6 Issue No.: 01 Issue Date: 29.04.2014	5 $\mu\text{g}/\text{m}^3$ to 1000 $\mu\text{g}/\text{m}^3$

SITE 3: MONITORING STATION AT DMS, SHADIPUR

I. ATMOSPHERIC POLLUTION

1.	Ambient Air	SO ₂	ISO (1 st Edition) 10498: 2004 (E)	3 $\mu\text{g}/\text{m}^3$ to 1310 $\mu\text{g}/\text{m}^3$
		Oxides of Nitrogen	CB/CL/SOP/AQ2 Issue No.: 01 Issue Date: 29.04.2014	2 $\mu\text{g}/\text{m}^3$ to 940 $\mu\text{g}/\text{m}^3$
		Carbon Monoxide	ISO (1 st Edition) 4224: 2000 (E)	114.5 $\mu\text{g}/\text{m}^3$ to 22900 $\mu\text{g}/\text{m}^3$
		Particulate Matter (PM _{2.5})	CB/CL/SOP/AQ6 Issue No.: 01 Issue Date: 29.04.2014	5 $\mu\text{g}/\text{m}^3$ to 1000 $\mu\text{g}/\text{m}^3$
		Ozone	CB/CL/SOP/AQ4 Issue No.: 01 Issue Date: 29.04.2014	2 $\mu\text{g}/\text{m}^3$ to 980 $\mu\text{g}/\text{m}^3$
		Benzene	CB/CL/SOP/AQ5 Issue No.: 01 Issue Date: 29.04.2014	1 $\mu\text{g}/\text{m}^3$ to 325 $\mu\text{g}/\text{m}^3$

Deepak

Deepak Kumar Sharma
Convenor

N. Venkateswaran

N. Venkateswaran
Program Manager



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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
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SITE 4: MONITORING STATION AT NSIT, DWARKA

I. ATMOSPHERIC POLLUTION

1.	Ambient Air	SO ₂	ISO (1 st Edition) 10498: 2004 (E)	3 µg/m ³ to 1310 µg/m ³
		Oxides of Nitrogen	CB/CL/SOP/AQ2 Issue No.: 01 Issue Date: 29.04.2014	2 µg/m ³ to 940 µg/m ³
		Carbon Monoxide	ISO (1 st Edition) 4224: 2000 (E)	114.5 µg/m ³ to 22900 µg/m ³
		Particulate Matter (PM _{2.5})	CB/CL/SOP/AQ6 Issue No.: 01 Issue Date: 29.04.2014	5 µg/m ³ to 1000 µg/m ³
		Ozone	CB/CL/SOP/AQ4 Issue No.: 01 Issue Date: 29.04.2014	2 µg/m ³ to 980 µg/m ³
		Benzene	CB/CL/SOP/AQ5 Issue No.: 01 Issue Date: 29.04.2014	1 µg/m ³ to 325 µg/m ³

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Deepak

Deepak Kumar Sharma
Convenor

N. Venkateswaran

N. Venkateswaran
Program Manager