

The Air Laboratory is recognized under the provisions of Environment (Protection) Act, 1986. To meet the requirements of recognitions, the laboratory activity and its operations are continually improved and maintained for quality data generation in environmentally safe conditions & systems. In this direction, the laboratory has enhanced the capability for quality data and systematic data generation by means enlarged its scope of operations.

Mandate of Air Laboratory

1. Laboratory operation and management and extend services to other Division / ZOs / SPCBs including compliance to Court directions and development of emission standards
2. Preparation of guidelines for ambient (manual & real time) and source emission monitoring and its demonstration
3. Air Quality Monitoring and data management for Delhi, data compilation, trend analyses including on-line data dissemination.
4. Installation, operation and Networking of Continuous Ambient Air Quality Monitoring Stations- its data base management, on-line display in website for mass awareness.
5. Development of state of Art Laboratory for demonstration (show case for all stake holders viz. SPCBs, PCCs, Universities, Environmental Monitoring Laboratories etc. in the country) towards its replication.
6. Preparation of monitoring protocol for all parameters (Ambient and source and Noise).

List of Parameters Covered and New Parameter Proposed Under Scope of NABL Accreditation (ISO/IEC 17025:2005):

S.No.	Product/Material of Test	Specific Test Performed
1.	Location 1, Parivesh Bhawan, East Arjun Nagar, Delhi	
	Air & Gases	
(a)	Ambient Air	SPM, Particulate matter (PM ₁₀), *Particulate matter (PM _{2.5}) *NH ₃ , Sulphur Dioxide (SO ₂) (Chemical method), Oxides of Nitrogen (NO ₂) (Chemical method), *Particulate Benzo-a-Pyrene (BaP), *Benzene
(b)	Metals in Particulate matter (PM ₁₀)	Pb, Cd, Ni, Cr, Cu, As*
(c)	*Cations in Particulate matter	Lithium, Sodium, Ammonium, Potassium, Magnesium, Calcium, Strontium, Barium
(d)	*Anions in Particulate matter	Fluoride, Chloride, Nitrite, Sulphate, Phosphate, Bromide Nitrate
(e)	Ambient Noise Level	Equivalent Sound Level Leq in db(A) in ambient air
(f)	Meteorological Parameters	Temperature, Relative humidity, *Atmospheric Pressure, *Wind speed, *Wind direction, *Solar radiation, *Rain fall
(g)	Source/Stack Emissions	Particulate Matter (PM), Sulphur Dioxide (SO ₂) Chemical method, Carbon Monoxide (CO), Oxygen (O ₂) and Carbon Dioxide (CO ₂) (Instrumental Method), Oxides of Nitrogen (NO ₂) Chemical method, *HCl & HF, *HCl & HF (total)
2.	Location 2, ITO (BSZ Marg), Delhi	
	Air & Gases Ambient Air	Particulate matter (PM ₁₀), Sulphur Dioxide (SO ₂) Chemical method, Oxides of Nitrogen (NO ₂) Chemical method
	*Location 3, IHBAS, Dilshad Garden	
	Air & Gases Ambient Air	SO ₂ , Oxides of Nitrogen, Carbon Monoxide, Particulate Matter, Size < 2.5 µm (PM _{2.5} Analyser)
4	*Location 4, DMS, Shadipur, Air & Gases Ambient Air	SO ₂ , Oxides of Nitrogen, Carbon Monoxide, Particulate Matter, Size < 2.5 µm (PM _{2.5} Analyser), Ozone, Benzene
5	*Location 5, NSIT, Dwarka, Air & Gases, Ambient Air	SO ₂ , Oxides of Nitrogen, Carbon Monoxide, Particulate Matter, Size < 2.5 µm (PM _{2.5} Analyser), Ozone, Benzene
*proposed new parameters		

Occupational Health and Safety Management System

CPCB Delhi has been awarded with license by BIS on OH & SMS under IS 18001:2007/12 in 2014. The effectiveness of system is being reviewed on regular basis. Two rounds of Internal audit and one Management review was conducted. Our system has successfully satisfied the surveillance audit conducted by BIS on completion of one year of award in December 2015.

OH & SMS team in CPCB, HO is also coordinating the activities regarding implementation of OH & SMS or OHSAS at our zonal office level.

1) Facilities provided through engineering solutions in laboratories

Air Laboratory has been provided with state of art facilities to have better work place through integrated Air Handling System. Proper fire safety systems with fire/smoke sensors at all places connected to central fire control panel. All corners and seating cabinets are equipped with speakers connected to PA system. Auto-controlled special firefighting gadgets are fitted in sophisticated instrumentation laboratory. Fire extinguishers are available and regularly checked.

2) Improvements for Operational Control

Air Laboratory has upgraded its system or implemented systematic operational control for OH & SMS issues against each activity identified under HIRA. These include PPEs, Fume Hoods, Emergency showers, Eye washing facilities, Proper earthing etc.