

PROFORMA

**RECOGNITION OF LABORATORY UNDER
THE ENVIRONMENT (PROTECTION) ACT, 1986**

(To be filled in by all existing laboratories to be considered for recognition as Environmental Laboratories under the Environment Protection Act, 1986)

1. General

(i) Name of Organization : _____

(ii) Name of the Laboratory : _____

(iii) Address

a) Postal : _____

b) Telephone : _____

c) Fax : _____

d) E-mail : _____

(iv) Year of establishment of organization : _____

(v) Year of establishment of environmental laboratory/wing : _____

(vi) Type of Organization
(Please tick the appropriate
to your Organization)

Government	Autonomous	Public Sector
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Pollution Control Board/Committee	Educational Institute (Govt./Govt. added/private)
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Private	NGO	Any other
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(vii) If laboratory/organization is private/NGO, give details:

- a. Whether registered with local, state or central govt. authorities : Yes / No
- b. If yes, mention Registration No. and date : _____
- c. Nationality of owner/head of the Organization : _____
- d. Laboratory is located in (tick relevant)
 - Commercial/Business complex
 - Residential area
 - Industrial area
 - Other
- e. Laboratory is situated in authorized/ approved area notified by the govt. : Yes / No

(viii) Objectives & scope of the organization*

(Please indicate, among others, whether it includes specialized testing, measurement, services)

(ix) Head of the Organization :

- a) Name : _____
- b) Designation : _____
- c) Address : _____

- d) Telephone : _____
- e) Fax No. : _____
- f) E-mail : _____

(x) Laboratory Incharge, if different than (ix) above.

a) Name and Designation : _____

b) Address : _____

c) Telephone: _____ Fax _____ E-mail _____

(xi) Name of accreditation body(s)/organization i.e. ISO, NABL, GLP, SPCB's, PCC's etc. from which the laboratory has been already recognized/accredited, give details.

S. No.	Name of the certification/recognition body/organization	Accreditation / recognition granted for the activities	Environmental Parameter covered	Validity up to

(xii) If applied for renewal of laboratory recognition under EPA, 1986, give previous recognition details:

a. Validity period : From _____ to _____

b. Reference of Gazette notification : _____

c. CPCB/MOEF reference No. : _____

(xiii) Whether laboratory ever been de-recognized before its validity period of recognition under The Water Act, 1974, The Air Act, 1981 and The E(P) Act, 1986 by State Pollution Control Board/Pollution Control Committee/Central Government/ CPCB, if yes, give details:

2. Infrastructural details of Laboratory: (please enclose brief lay out plan map of laboratory) with organizational chart and laboratory position in there to:

(i) Total floor space of the environmental laboratory (in sq. mtr): _____

a) Water Laboratory = Sq. mtr

b) Biological & Microbiological Laboratory = Sq. mtr

c) Air Laboratory = Sq. mtr

d) Provide scanned photograph of above with layout plan.

(ii) Details of major projects undertaken pertaining to environmental studies:
[Please attach separate sheet, if space is insufficient]

(iii) Which of the following type of analytical tests are being carried out in the laboratory [please mark Yes (√)/No (x)]:

- | | |
|--|-------------------------------------|
| a) Physical | k) Hazardous waste Characterization |
| b) Inorganics general and non metallic | l) Ambient air |
| c) Inorganic (Trace metals) | m) Source emission |
| d) Organics (General) | n) Air Toxics |
| e) Trace Organics | o) Hazardous Air Pollutants |
| f) Microbiological | p) Volatile Organic Carbon |
| g) Toxicity | m) Noise measurement |
| h) Biological | n) Meteorological |
| i) Hazardous waste | o) Vehicular emission/Auto exhaust |
| j) Soil, sludge, sediment | |

(iv) Laboratory scientists/chemist or officials are fully conversant for sampling, monitoring, preservation and transportation [please tick Yes(√)/No(x)].

- | | |
|-----------------------------------|--|
| (a) Water & wastewater | (i) Hazardous Air Pollutants analysis |
| (b) Hazardous waste | (j) Volatile Organic Carbon analysis |
| (c) Solid waste | (k) Noise monitoring |
| (d) Soil | (l) Meteorological monitoring |
| (e) Municipal waste | (m) Source emission |
| (f) Biomedical waste | (n) Auto exhaust monitoring |
| (g) Ambient air/fugitive emission | (o) On line ambient air quality monitoring |
| (h) Air Toxics analysis | |

- (v) Laboratory scientists/chemists or officials are capable of analyzing desired/ relevant parameters in various types of matrix [please tick [Yes(√)/No (x)]
- a. Liquid Samples (water & wastewater)
 - b. Solid Samples (soil/mud/solid waste/sludge etc.)
 - c. Semi-solid samples (sludge/slurry)
 - d. Gaseous samples (Ambient air, source emission, vehicular emission)
- (vi) a) Mark the parameters given in Appendix `A` which can be analyzed in the laboratory:
- b) Mark the equipment given in Appendix `B` which are available in the laboratory:
 - c) Mark the glass apparatus/assembly given in Appendix `C`, which are available in the laboratory.
 - d) Mark the Instruments given in Appendix `D` which are available in the laboratory.
 - e) Mark the methodology employed for analysis in Appendix `E`.
 - f) Mark the Air Quality Parameters, which can be analyzed in the laboratory in Appendix `F`.
 - g) Mark the Instruments/equipment given in Appendix `G`.
 - h) Give details about instruments/equipment in Appendix `H`.
 - i) Give details about the analytical methods adopted in Appendix `I`.
 - j) Give details about the facilities available for analysis of specific organic compounds in Appendix `J`.

(vii) Which of the methods given below are being followed for the [Tick √]:

(a) Water and Wastewater Analysis:

- | | | |
|---------|--------|--------------|
| 1. APHA | 2. BIS | 3. USEPA |
| 4. ASTM | 5. ISO | 6. Any other |

(b) Air Pollution Monitoring and Analysis

- | | | |
|--------------|---------|----------|
| 1. APHA | 2. BIS | 3. USEPA |
| 4. CPCB | 5. ASTM | 6. ISO |
| 7. Any other | | |

- (viii) Provide details for participation in inter-laboratory (between laboratories) Analytical quality control proficiency testing programme during last 5 years. Attach copy of performance report with the application

Coordinating Agency i.e. CPCB, WHO, NABL, SPCB/PCC etc.	Period (Month / year)	Parameter covered	Percentage of performance

(ix) Name, designation and qualifications of staff/officials posted at environmental laboratory/branch (with expertise in environmental analysis/testing): *(Please enclose separate sheet if space is inadequate)*

S. No.	Name	Designation	Qualification	Total experience in any. Field (years & months)	Nature of present job assignment (√ only)		
					Administrative	Supervisory	Analysis/sampling

(x) Details of training programme/s related with the environment field attended within last five years by the officials working at the laboratory as mentioned at (ix)

S. No.	Name of official/s	Training conducted by the institution/organization	Title/topic	Duration

- (xi) Please indicate by asterisk (*) the name/s of personnel (maximum three) & having desired qualification and experience as mentioned in Annexure-IV to be considered for nomination as Govt. Analysts. Brief bio-data of these persons should be enclosed as per annexure-V.

S. No.	Name	Designation	Qualification	Experience in years related with Environmental Analysis

- (xii) If applied for renewal of recognition under EPA 1986, please outline steps taken for up gradation of laboratory (please attach details as annexure) during recognition period with respect to:

- a) Procurement of new sophisticated instrument
- b) Addition of new parameters
- c) Participation in Analytical Quality Control (AQC) exercise of CPCB.

Signature :(Head of organization)

(Head of laboratory)

Full name : _____
(In capital letters)

Seal of laboratory

(Forward application for consideration of inspection/recognition, if fulfill minimum criteria to MOEF (Private & NGOs only) and others to CPCB at following address with duly completed applications along with enclosures)

- (i) Private/NGOs/Cooperative Organization Laboratory:

Director / Addl. Director (CP Division)
Ministry of Environment & Forests
Paryavaran Bhawan
CGO Complex, Lodi Road
New Delhi-110 003

- (ii) Govt./Semi-Govt./Autonomous Organization/Public Sector Undertaking and Educational Institute Laboratories:

The Member Secretary
Central Pollution Control Board
'Parivesh Bhavan', East Arjun Nagar
Delhi - 110 032

Self-Assessment by the Laboratory

Pre-requisite for Recognition of Environmental Laboratories under The Environment (Protection) Act, 1986

The laboratory should ensure that it fulfills the following essential requirement by itself through self assessment before submitting an application seeking recognition under The Environment (Protection) Act, 1986:

- (i) Laboratory (Private / NGO) is registered by the local govt./State Govt./Central Govt.
- (ii) Laboratory has minimum 9 nos. of full time working skilled manpower with following qualification:

S. No.	Qualification	Nature of Job	Nos. of Manpower
1.	High School/Intermediate with Science	Assistance in sampling & analysis	2
2.	Bachelor's Degree in Basic Science or equivalent.	Sampling and analysis	4
3.	Master's Degree in Science or equivalent or Bachelors Degree in Engineering / Technology or equivalent or Ph.D.	Sampling & Analysis. Supervision of Analysis	3
	Total Manpower (Minimum)		9

- (iii) Environmental laboratory should have minimum space required as given below:
 - a) Water Laboratory = 100 Sq. mtr
 - b) Air Laboratory = 100 Sq. mtr
 - c) Water & Air Laboratory = 150 Sq. mtr
- (iv) Laboratory should compulsorily meet essential parameter requirement as Appendix A & F.
- (v) Laboratory fulfills minimum requirement of equipment/instrument as Appendix B, D & G.
- (vi) Laboratory should analyzed samples adopting any validated methods i.e. USEPA, APHA, BIS, ASTM, ISO, EU or CPCB only.
- (vii) Laboratory must have environmental journals/books/analytical methods for sample analysis with adequate space.
- (viii) Laboratory should have not been revoked the recognition by any SPCB/PCC and Govt. Department. If revoked, recognition case will not be considered before a period of three years from the date of revoked.
- (ix) Laboratory must have comprehensive facilities, expertise for water or air or both related parameters.
- (x) Laboratory should apply strictly as per the format with desired enclosures.

LIST OF PARAMETERS BEING ANALYSED

A) Physical Tests : [Please mark Yes(√)/No (x)]

S. No.	Mandatory parameter	S. No.	Secondary parameter
1.	Conductivity	1.	Flocculation test (Jar test)
2.	Colour	2.	Odour
3.	pH	3.	Salinity
4.	Fixed & volatile solids	4.	Settleable solids
5.	Total solids	5.	Sludge volume index (SVI)
6.	Total dissolved solids		
7.	Total suspended solids		
8.	Turbidity		
9.	Temperature		
10.	Velocity & discharge Measurement of industrial effluent stream		

Minimum required - All 10 nos. of parameters

Minimum required 3 parameters

B) Inorganic [Please mark Yes (√)/No (x)]

(i) General & Non-metallic

S. No.	Mandatory parameter	S. No.	Secondary parameter
1.	Acidity	1.	Bromide
2.	Alkalinity	2.	Carbon dioxide
3.	Ammonical nitrogen	3.	Chlorine demand
4.	Chloride	4.	Iodine
5.	Chlorine residual	5.	Sulphite
6.	Dissolved oxygen	6.	Silica
7.	Fluoride	7.	Cyanide
8.	Total hardness	8.	Sulphide
9.	Total kjehldal nitrogen (TKN)		
10.	Nitrite nitrogen		
11.	Nitrate nitrogen		
12.	Phosphate		
13.	Sulphate		

Minimum required – All 13 parameters

Minimum required– Atleast 3 parameters

(ii) Trace Metals [Please mark Yes(√)/No (x)]

S. No.	Mandatory parameter	S. No.	Secondary parameter
1.	Boron (B)	1.	Arsenic (As)
2.	Cadmium (Cd)	2.	Aluminium (Al)
3.	Calcium (Ca)	3.	Beryllium (Be)
4.	Chromium (Cr) Total	4.	Barium (Ba)
5.	Chromium (Cr) Hexavalent	5.	Lithium (Li)
6.	Copper (Cu)	6.	Manganese (Mn)
7.	Iron (Fe)	7.	Selenium (Se)
8.	Lead (Pb)	8.	Silver (Ag)
9.	Magnesium (Mg)	9.	Strontium (Sr)
10.	Mercury (Hg)	10.	Tin (Sn)
11.	Nickel (Ni)	11.	Antimony (Sb)
12.	Potassium (K)	12.	Cobalt (Co)
13.	Sodium (Na)	13.	Vanadium (V)
14.	Sodium absorption ratio (SAR)		
15.	Zinc (Zn)		

Minimum required – All 15 parameters

Minimum required – Atleast 4 parameters

(C) Organics (General) and Trace Organics [Please mark Yes(√)/No (x) and give details at Appendix J for Trace organics]

S. No.	Mandatory parameter	S. No.	Secondary parameter
1.	Bio-chemical oxygen demand (BOD)	1.	Total organic carbon (TOC)
2.	Chemical oxygen demand (COD)	2.	Adsorbable organic halide (AOX)
3.	Oil & Grease	3.	Surfactants
4.	Phenol	4.	Tannin & lignin
5.	Pesticide (each)	5.	Poly-chlorinated biphenyl (PCB's) each
	(i) Organo-chlorine (BHC, DDT, Aldrin, Endosulphan)	6.	Polynuclear aromatic hydrocarbon (PAH) each
	(ii) Organo nitrogen-phosphorous (Malathion, methyl parathion, Chloropyriphos)	7.	Organic Carbon (in solid)
		8.	Carbon/Nitrogen ratio

Minimum required – All 5 parameters

Minimum required – Atleast 3 parameters

D) Microbiological Tests [Please mark Yes(√)/No (x)]

S. No.	Mandatory parameter	S. No.	Secondary parameter
1.	Total Coliform	1.	Total plate count
2.	Faecal Coliform	2.	Enterococcus
3.	Faecal Streptococci	3.	Coliphage
4.	E. Coli		

Minimum required – All 4 parameters

Minimum required – Atleast 1 parameters

E) Toxicological Tests [Please mark Yes(√)/No (x)]

S. No.	Mandatory parameter	S. No.	Secondary parameter
1.	Bioassay method for evaluation of toxicity using fish (90% survival of fish after 96 hrs in 100% effluent)	1.	Bio-accumulation, bio magnification and bio-transformation studies
		2.	Estimation of the effect at tissue level
		3.	Measurement of toxicity using Daphnia or other organism
		4.	Measurement of toxicity factor using zebra fish (dimensionless toxicity test)

Minimum required – 1 parameter

Minimum required – 1 parameter

F) Biological Tests [Please mark Yes(√)/No (x)]

S. No.	Parameter	S. No.	Parameter
1.	Benthic organism identification and count	5.	Saprobity Index
2.	Macrophytic identification	6.	Chlorophyll
3.	Planktonic identification count	7.	Primary productivity
4.	Measurement of various diversity index	8.	P/R Ratio

Minimum required – Atleast 3 parameter

G) Characterization of Hazardous Waste [Please mark Yes(√)/No (x)]

S. No.	Parameter
1.	Preparation of Leachate (TCLP extract/water extract)
2.	Corrosivity
3.	Ignibility (Flash point)
4.	Reactivity
5.	Toxicity
6.	Measurement of heavy metals/pesticides in the waste/leachate

Minimum required – Atleast 3 parameters

H) Soil/Sludge/Sediment and Solid Waste [Please mark Yes(√)/No (x)]

S. No.	Mandatory parameter	S. No.	Secondary parameter
1.	Boron	1.	Ammonia
2.	Cation Exchange Capacity (CEC)	2.	Bicarbonate
3.	Electrical Conductivity (EC)	3.	Calcium
4.	Nitrogen available	4.	Calcium carbonate
5.	Organic carbon/matter (chemical method)	5.	Chloride
6.	pH	6.	Colour
7.	Phosphorous (available)	7.	Exchangeable sodium percentage (ESP)
8.	Phosphate (ortho)	8.	Gypsum requirement
9.	Phosphate (total)	9.	H. Acid
10.	Potassium	10.	Heavy metal
11.	SAR in soil extract	11.	Magnesium

S. No.	Mandatory parameter	S. No.	Secondary parameter
12.	Sodium	12.	Mechanical soil analysis
13.	Soil moisture	13.	Nitrate
14.	TKN	14.	Nitrite
15.	Calorific value	15.	PAH
		16.	Pesticide
		17.	Potash (available)
		18.	Sulphate
		19.	Sulphur
		20.	TOC
		21.	Total water soluble salt
		22.	Water holding capacity

Minimum required: All 15 parameters

Minimum required: Atleast 10 parameters

Remarks: Besides minimum instruments/equipment facilities laboratory must qualify minimum 5 essential groups i.e. A to E for water and similarly A to D for air analysis.

a) **LIST OF EQUIPMENT FOR WATER / WASTEWATER ANALYSIS**

[Note: Please mark Yes (√)/No(x)]

S. No.	Equipment	Yes/No	Nos. available**
BASIC EQUIPMENTS			
1.	Ice Box/s* (2)		
2.	Filtration assembly* (1)		
3.	Heating Mantle		
4.	Stop watch		
5.	Hot air oven* (2)		
6.	Hot plate* (2)		
7.	Muffle furnace* (1)		
8.	Standard weight		
9.	Water bath		
10.	Thermometer/s* (4)		
11.	Refrigerator/s big size* 300 litres or above (2)		
SPECIFIC EQUIPMENTS			
1.	Autoclave* (1)		
2.	Bottom sampler		
3.	BOD Incubator* (1)		
4.	Centrifuge* (1)		
5.	Aquarium for bioassay test* (4)		
6.	COD Digester with aluminium heating blocks * (1)		
7.	Colony Counter		
8.	Depth Sampler		
9.	Digester with condensers		
10.	Digestion chamber* (1)		
11.	Dissolved oxygen sampler		
12.	Flocculator (Jar testing apparatus)		
13.	Flow meter		
14.	Incubator for bacteriological test* (2)		
15.	Laminar flow* (1)		
16.	Magnetic Stirrer with hot plate* (2)		
17.	Mechanical Shaker *(1)		
18.	Microwave digester		
19.	TKN Analyzer semi automatic with aluminum block digester		
20.	Ultrasonic water bath		
21.	Vacuum pump* (1)		
22.	Water purification / distillation assembly* (1)		
23.	Ekman Dredge		
24.	Water sampler		

S. No.	Equipment	Yes/No	Nos. available**
25.	Oil & Grease sampler		
26.	Water Testing kit		
27.	Chloroscope for residual chlorine		
28.	Any other equipment (please attach details on separate sheet)		

* Besides minimum analytical capabilities, expertise, laboratory must be equipped with these items if seeking recognition with desired nos. as mentioned against each item.

** Provide minimum numbers of items, in case exact numbers are not available.

Certified that all the above equipments are properly of _____
 _____ (Name of laboratory) and procurement records/bills of
 instruments/equipment are available at the laboratory. The list of instruments /
 equipment taken on loan is appended herewith.

Signature of Laboratory Incharge

a) **LIST OF GLASS APPARATUS AND DISTILLATION ASSEMBLIES**

[Note: Please mark Yes (√)/No (x)]

S. No.	Particulars	Yes or No	Total nos. available
1.	Fluoride distillation assembly		
2.	Cyanide distillation assembly		
3.	Ammonia distillation assembly		
4.	Water distillation assembly		
5.	Soxlet extraction assembly		
6.	Arsenic estimation assembly		
7.	Phenol distillation assembly		
8.	Any other (please enclose details on separate sheet)		

Remarks: If actual figures are not available give minimum / least nos. available.

APPENDIX 'D'

a) LIST OF INSTRUMENTS FOR WATER / WASTEWATER ANALYSIS

[Note: Please mark Yes (√)/No (x)]

S. No.	Name of instrument	Yes/No	Total Nos. **																												
BASIC INSTRUMENTS																															
1.	Analytical Balance +* (1) 1 mg																														
2.	Conductivity Meter* (1)																														
3.	Dissolved oxygen meter																														
4.	pH Meter with combined glass electrode* (1)																														
5.	Turbidity meter* (1)																														
SPECIFIC INSTRUMENTS																															
1.	Alpha/Beta Radioactivity Counter																														
2.	Atomic Absorption Spectrophotometer (Flame) with the following cathode lamps + (√ available HCL)* (1)																														
	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">(i) Aluminium</td> <td style="width: 50%;">(ii) Antimony</td> </tr> <tr> <td>(iii) Arsenic</td> <td>(iv) Barium</td> </tr> <tr> <td>(v) Barium</td> <td>(vi) Boron</td> </tr> <tr> <td>(vii) Cadmium</td> <td>(viii) Calcium</td> </tr> <tr> <td>(ix) Chromium</td> <td>(x) Copper</td> </tr> <tr> <td>(xi) Iron</td> <td>(xii) Lithium</td> </tr> <tr> <td>(xiii) Lead</td> <td>(xiv) Magnesium</td> </tr> <tr> <td>(xv) Manganese</td> <td>(xvi) Mercury</td> </tr> <tr> <td>(xvii) Nickel</td> <td>(xviii) Potassium</td> </tr> <tr> <td>(xix) Selenium</td> <td>(xx) Silver</td> </tr> <tr> <td>(xxi) Sodium</td> <td>(xxii) Strontium</td> </tr> <tr> <td>(xxiii) Tin</td> <td>(xxiv) Cobalt</td> </tr> <tr> <td>(xxv) Vanadium</td> <td>(xxvi) Zinc</td> </tr> <tr> <td></td> <td>(xxvii) Other, pl. specify</td> </tr> </table>	(i) Aluminium	(ii) Antimony	(iii) Arsenic	(iv) Barium	(v) Barium	(vi) Boron	(vii) Cadmium	(viii) Calcium	(ix) Chromium	(x) Copper	(xi) Iron	(xii) Lithium	(xiii) Lead	(xiv) Magnesium	(xv) Manganese	(xvi) Mercury	(xvii) Nickel	(xviii) Potassium	(xix) Selenium	(xx) Silver	(xxi) Sodium	(xxii) Strontium	(xxiii) Tin	(xxiv) Cobalt	(xxv) Vanadium	(xxvi) Zinc		(xxvii) Other, pl. specify		
(i) Aluminium	(ii) Antimony																														
(iii) Arsenic	(iv) Barium																														
(v) Barium	(vi) Boron																														
(vii) Cadmium	(viii) Calcium																														
(ix) Chromium	(x) Copper																														
(xi) Iron	(xii) Lithium																														
(xiii) Lead	(xiv) Magnesium																														
(xv) Manganese	(xvi) Mercury																														
(xvii) Nickel	(xviii) Potassium																														
(xix) Selenium	(xx) Silver																														
(xxi) Sodium	(xxii) Strontium																														
(xxiii) Tin	(xxiv) Cobalt																														
(xxv) Vanadium	(xxvi) Zinc																														
	(xxvii) Other, pl. specify																														
3.	Atomic Absorption Spectrophotometer with Graphite Furnace and Hydride Generation System																														
4.	Organic Halogen Analyzer (AOX/TOX)																														
5.	Binocular Microscope																														
6.	Flame Photometer* (1)																														
7.	Gas Chromatograph with following detector*** (1)																														
	- ECD-NPD																														
	- FID-TID																														
	- FPD																														
	- Other detector																														
8.	Gas Chromatograph with Mass Spectrometer (GC-MS)																														
9.	High Pressure Liquid Chromatograph (HPLC)																														
10.	Ion Chromatograph																														
11.	Inductively Coupled Plasma (ICP) Spectrometer																														
12.	Mercury Analyzer Digital* (1)																														
13.	Portable Analyzer Kit (DO, pH, Temp. Cond.)																														
14.	Precision Balance weighing up to 1 mg* (water / air)																														
15.	Rotary Evaporator* (1)																														
16.	Spectrophotometer (Visible)* or Ultraviolet & visible* (1)																														
17.	Stereo Microscope																														
18.	Total Organic Carbon Analyzer																														
19.	Any other instruments (Please enclose details on separate sheet)																														

* Besides minimum analytical capabilities, expertise, laboratory must equipped with these items if seeking / applying for recognition with desired nos. as mentioned against each item.

** Provide minimum number of item, in case exact numbers are not available

+ All H.C.L. may not required essentially

++ GC equipped minimum ECD, NPD & FID with capillary column.

- If equipped with ICP Spectrophotometer then AAS is not required essentially.

- Mercury Analyzer Digital may not required essentially, if Mercury is measured 1 ppb or below by AAS/ICP.

b) LIST OF SPECIFIC EQUIPMENTS/INSTRUMENTS FOR HAZARDOUS WASTE ANALYSIS

[Note: Please mark Yes (√) /No (x)]

S. No.	Instruments	Nos. Available
1.	Bomb colorimeter	
2.	Elemental analyzer	
3.	Flash point apparatus	
4.	Moisture content meter	
5.	Rotary evaporator	
6.	Toxicity characteristic leaching procedure (TCLP) extractor	
7.	Toxic Gas analyzer	
8.	X-ray fluorescence (XRF) Spectrometer	
9.	Zero head space extractor (ZHE)	

c) MAINTENANCE CONTRACT STATUS OF IMPORTANT SOPHISTICATED INSTRUMENTS

[Note: Please mark Yes (√)/No (x)]

S. No.	Name of the instrument	Repair job undertaken on Annual Maintenance contract / emergency call basis	Whether sufficient spares available
1.	AAS (Flame & Flameless)		
2.	AOX		
3.	Total Organic Carbon Analyzer		
4.	Gas Chromatograph		
5.	Water purification system		
6.	Analytical balance		
7.	Specific ion meter		
8.	Mercury analyzer		
9.	UV-Visible spectrophotometer		
10.	Alpha/Beta Radioactivity Counter		
11.	Any other		

d) REFERENCE MATERIAL (RMS) AND CERTIFIED REFERENCE MATERIAL (CRMS)

S. No.	Parameters	Availability of RMS/CRMS	
		(√/X)	Nos. of standards
1.	Trace Metals		
2.	Organo-chlorine pesticides		
3.	Organo-nitrogen phosphorous pesticides		
4.	Polychlorinated Biphenyls (PCB's)		
5.	Polycyclic aromatic hydrocarbon (PAH)		
6.	Benzene, Ethylene, Toluene & Xylene		
7.	Dioxins and Furans		

Note: - Please enclose details on separate sheet, if space is inadequate.
 - Provide list of standards (RM/CRM) with their names, make & expiry date.

APPENDIX `E`

METHODOLOGY EMPLOYED FOR ANALYSIS

[Please tick relevant adopted method]

(A) PHYSICAL PARAMETERS

S. No.	PARAMETER	METHOD ADOPTED
1.	Colour	a. Visible comparison method (only potable waters)
		b. Spectrophotometric Method (All)
2.	Odour	Threshold odour test
3.	Conductivity	Conductivity Meter
4.	pH Value	Electronic (pH Meter)
5.	Total solids dried at 103-105 °C	Gravimetric
6.	Total suspended solids dried at 103-105 °C	Gravimetric
7.	Total dissolved solids dried at 180 °C	Gravimetric
8.	Fixed and volatile solids ignited at 550 °C	Gravimetric
9.	Settleable solids	Volumetric using Imhoff concentration
		Gravimetric
10.	Sludge volume index (SVI)	Volumetric followed by gravimetric (using Imhoff conc. and filtration device)
11.	Salinity	a. Electrical conductivity method
		b. Density method
12.	Settled sludge volume	Volumetric
13.	Turbidity	Nephelometric
14.	Temperature	Thermometer
15.	Velocity and discharge measurement of river, drain, industrial effluent stream etc	a. Cross-Section-velocity Method
		b. Weirs (Rectangular or V Notch or U-Notch)
		c. Chemical Methods.
16.	Flocculation test (Jar test)	Dosing of coagulants
17.	Other Parameters (Please specify)	

(B) INORGANIC (GENERAL & NON-METALLIC)

S. No.	PARAMETER	METHOD ADOPTED
1.	Acidity	a. Electrometric/Potentiometric titration
		b. Color Indicator titration
2.	Alkalinity	a. Electrometric/Potentiometric titration
		b. Color Indicator titration
3.	Ammonical Nitrogen	a. Distillation followed by colorimetric method (Nesslerization or phenate)
		b. Distillation followed by titrimetric method
		c. Distillation followed by ion Selective electrode method
4.	Bromide	Colorimetric (Curcumin or Carmine)
5.	Carbon Dioxide	a. Titrimetric
		b. Nomographic
6.	Chloride	a. Titrimetric (Argentometric or Mercuric Nitrate)
		b. Potentiometric
7.	Chlorine demand	Dosing of sampling chlorine solution
8.	Chlorine Residual	Titrimetric
9.	Cyanide	a. Distillation followed by Titrimetric
		b. Distillation followed by Colorimetric
		c. Distillation followed by Cyanide - Selective Electrode
10.	Dissolved Oxygen	a. Winkler titrimetric-azide modification
		b. Membrane electrode method
11.	Fluoride	a. Distillation followed by Colorimetric (SPADNS or Alizarin Red)
		b. Distillation followed by Fluoride selective electrodes
12.	Iodine	a. Leuce Crystal violet method
		b. Amperometric titration method
13.	Total kjehldal nitrogen	a. Macro kjehldal method
		b. Semi micro kjehldal method
14.	Nitrite nitrogen	Colorimetric
15.	Nitrate nitrogen	a. Colorimetric
		b. Cadmium reduction method
		c. Electrode method
16.	Phosphate	Colorimetric
17.	Sulphate	a. Turbidimetric
		b. Gravimetric method with residual/ignition of residue
18.	Sulphide	a. Iodometric method
		b. Ion selective electrode method
		c. Methylene blue method
19.	Sulphite	a. Titrimetric
		b. Phenonthralin method
20.	Silica	a. Molybdosilicate method
		b. Heterotopy blue method
21.	Total hardness	Titrimetric (EDTA method)
22.	Other parameters (pl. specify)	

II. TRACE METALS (Tick for applicable methods for elemental analysis)

S. No.	Elements	Flame atomic absorption (direct)	Flame atomic absorption (extracted)	Flame photometry	Electro thermal atomic absorption	Hydride/cold vapour atomic absorption	Inductively coupled plasma (ICP)	ICP/MASS Spectrometry ICP/MS	Anodic stripping voltametry	Alternative methods (colorimetric/ titrimetric by difference etc)
1.	Aluminium (Al)									
2.	Antimony (Sb)									
3.	Arsenic (As)									
4.	Barium (Ba)									
5.	Beryllium (Be)									
6.	Boron (B)									
7.	Cadmium (Cd)									
8.	Calcium (Ca)									
9.	Chromium (total) (Cr ³⁺)									
10.	Chromium (Hexa) (Cr ⁺⁶)									
11.	Cobalt (Co)									
12.	Copper (Cu)									
13.	Iron (Fe)									
14.	Lead (Pb)									
15.	Lithium (Li)									
16.	Magnesium (Mg)									
17.	Manganese (Mn)									
18.	Mercury (Hg)									
19.	Nickel (Ni)									
20.	Potassium (K)									
21.	Selenium (Se)									
22.	Silver (Ag)									
23.	Sodium (Na)									
24.	Sodium Absorption Ratio (SAR)									
25.	Strontium (Sr)									
26.	Tin (Sn)									
27.	Vanadium (V)									
28.	Zinc (Zn)									

1. Total nos. of metal analysis claimed _____;
2. Metal digestion method adopted (pre treatment (please tick appropriate))
 - (a) Using hot plate
 - (b) Closed loop system
 - (c) Microwave digestion

C. ORGANIC (GENERAL) & TRACE ORGANICS

[Please mark Yes (✓) /No (x) for adopted method]

S. No.	PARAMETER	METHOD
GENERAL		
1.	Bio-chemical Oxygen Demand (BOD)	a. Three days BOD at 27 °C b. Five days BOD at 20 °C
2.	Chemical oxygen demand (COD)	a. Open reflux method b. Closed reflux titrimetric method c. Closed reflux colorimetric
3.	Oil & Grease	a. Grass metric (simple extraction) b. Soxhlet extraction
4.	Phenol	a. Distillation followed by colorimetric b. Chloroform extraction
5.	Adsorbable organic halogens	Adsorption pyrolysis titrimetric
6.	Organic carbon (in solids)	Rapid titrametration method
7.	Total organic carbon	a. High temperature combustion b. Persulphate ultraviolet or heated persulphate oxidation c. Wet oxidation method
8.	Surfactants	a. Surfactant separation by sublation b. Anionic surfactants as MBAS c. Non imic surfactants as CTAS
9.	Carbon/Nitrogen Ratio	By calculation
10.	Tannin & lignin	Colorimetric method
TRACE ORGANICS		
11.	Pesticides	a. Organo-chlorine (Please specify adopted method) b. Organo-phosphorous (Please specify adopted method) c. Carbamates (Please specify adopted method) d. Herbicides (Please specify adopted method) e. Fungicides (Please specify adopted method)
12.	Polychlorinated biphenyl (PCB's)	Please specify adopted method
13.	Poly nuclear aromatic hydrocarbon	Please specify adopted method
14.	Volatile Organics	Please specify adopted method
15.	Trihalomethanes	Please specify adopted method

D. MICROBIOLOGICAL TESTS (Adopted method)

S. No.	PARAMETER	METHOD
1.	Total coliform	a. Multiple tube technique b. Membrane filter technique
2.	Faecal coliform	a. Multiple tube technique b. Membrane filter technique
3.	Faecal streptococci	a. Multiple tube technique b. Membrane filter technique
4.	Enterococcus	a. Multiple tube technique b. Membrane filter technique
5.	Total plate count	a. Pore plate method b. Spread plate method c. Membrane filter method
6.	E. Coli	a. Multiple tube technique b. Membrane filter technique
7.	Others (Please specify)	

E. HAZARDOUS WASTE PARAMETERS (Adopted method)

S. No.	PARAMETER	METHOD
1.	Preparation of Leachate (TCLP extract/water extract)	-
2.	Determination of various parameter in Leachate i.e. metal, pesticides etc.	Methods as prescribed in water analysis
3.	Corrosivity	a. Electrometric (by pH meter) b. Corrosivity toward steel
4.	Reactivity	Identification of characteristic properties i.e. explosive, reading violent, violently react with water forms potential explosive mixture with water etc.
5.	Ignitability	a. By Pen sky martens apparatus b. By seta flash closed cap tester
6.	Toxicity	Toxicity characteristics leaching procedure (TCLP)
7.	Other (Please specify)	

AIR QUALITY PARAMETERS

Facilities available [Please mark Yes (√)/No (x)]

A. Ambient Air / Fugitive Emissions

S. No.	Group of parameter	Yes/No (√ / x)	Adopted method
(i)	Mandatory Parameters		
1.	Nitrogen dioxide as NO ₂		
2.	Sulphur dioxide (SO ₂)		
3.	Total suspended particulate matter		
4.	Respirable suspended particulate matter (PM ₁₀)		
(ii)	Secondary Parameters		
1.	Ammonia		
2.	Carbon monoxide		
3.	Chlorine		
4.	Fluoride		
5.	Non methane hydrocarbon		
6.	Lead		
7.	Methane		
8.	Ozone		
9.	Benzene Toluene Xylene (BTX)		
10.	Polycyclic aromatic hydrocarbon (PAH) Benzo-a-pyrene & others		
11.	PM _{2.5}		
12.	Volatile Organics Carbon		

Minimum required - At least 4 parameters from secondary parameters

B. Stack gases/source emission

S. No.	Group of parameter	Yes/No (√ / x)	Adopted method
(i)	Mandatory Parameters		
1.	Particulate matter		
2.	Sulphur dioxide		
3.	Velocity & flow		
4.	Carbon dioxide		
5.	Carbon monoxide		
6.	Temperature		
7.	Oxygen		
8.	Oxides of nitrogen		
(ii)	Secondary Parameters		
1.	Acid mist		
2.	Ammonia		
3.	Chlorine		
4.	Fluoride (Particulate)		
5.	Fluoride (Gaseous)		
6.	Hydro-chloric acid		
7.	Total Hydro carbon		
8.	Hydrogen Sulphide		
9.	Carbon disulphide		
10.	Mercaptan		

Minimum required - At least 5 parameters from Secondary parameter

C. Noise level

S. No.	Group of parameter	Yes/No	Adopted method
(i)	Mandatory Parameters		
1.	Noise level measurement (20 to 140 dba)		
2.	Ambient Noise & Source specific noise		

D. Meteorological Monitoring

S. No.	Group of parameter	Yes/No	Adopted method
(i)	Mandatory Parameters		
1.	Ambient Temperature		
2.	Wind direction		
3.	Wind speed		
4.	Relative Humidity		
(ii)	Secondary Parameters (Minimum required at least one parameter)		
1.	Solar radiation		
2.	Rain fall		

E. Vehicular Emission Monitoring

S. No.	Group of parameter	Yes/No	Adopted method
(i)	Mandatory Parameters		
1.	Carbon monoxide		
2.	Smoke Density		
3.	Hydrocarbon		
(ii)	Secondary Parameters (Optional)		
1.	Oxides of Nitrogen		

Remark: *Laboratory seeking recognition must qualify minimum 4 groups A to D groups of parameters with appropriate space requirement, skilled manpower and adequate infrastructure facilities.*

APPENDIX-G

LIST OF EQUIPMENT/INSTRUMENTS

[Please mark Yes (√)/No (x)]

S. No.	Instrument	Yes/No	If yes, give Total Nos. **
1.	BTX analyzer (PID/FID detector)		
2.	BTX calibrator		
3.	Charcoal Tubes		
4.	CO Analyzer (Non-dispersive Infrared principle)		
5.	Detector Tubes with Pump of different pollutants (Please specify details)		
6.	Dust analyzer (Beta Attenuation/TOEN)		
7.	Exhaust CO/HC analyzer		
8.	Flue gas analyzer		
9.	Gas Chromatograph with Air sampling port, FID & PFPD detectors		
10.	Handy sampler for gaseous monitoring* (2)		
11.	High Volume sampler with flow controller (4)		
12.	Low flow pump		
13.	Meteorological sensors with mast (WS, WD, Temp., Humidity)* (1)		
14.	Micro balance (Readability 1 µg)		
15.	Multi calibration system		
16.	Multi channel recorder		
17.	Multi calibration kit (portable)		
18.	Noise level meter* (2)		
19.	NO-NO ₂ -Nox Analyzer (Chemiluminescence based)		
20.	Ozone analyzer (Ultraviolet)		
21.	Permeation tubes for calibration		
22.	RSPM sampler with flow controller/brush less motor + calibration kit* (4)		
23.	Smoke density meter		
24.	SO ₂ Analyzer (Pulsed Fluorescence based)		
25.	Soap bubble meter		
26.	Stack monitoring kit with High Temp. Probes* (2)		
27.	Toddler Bags		
28.	Wet gas meter		
29.	Any other (please specify)		

LIST OF INFRASTRUCTURAL EQUIPMENT/ITEMS FOR AIR ANALYSIS

[Please mark Yes (√)/No (x)]

S. No.	Items	Yes/No	If yes, give Total Nos.**
1.	Air conditioner (split type)		
2.	Air Conditioner (Window type)		
3.	Breathing apparatus		
4.	Cold room for sample storage		
5.	Computer with printer		
6.	Constant voltage transformer		
7.	Face shield and helmet		
8.	Gas mask		
9.	Refrigerator (frost free, CFC free)		
10.	Tool Kit (Electrical & Mechanical)		
11.	Uninterrupted power supply (UPS) system		
12.	First aid box		
13.	Trolley for sample transportation		
14.	Fume Hood		
15.	Exhaust System		
16.	Fire Extinguisher		
17.	Electricity Generator		
18.	Gas Cylinder Trolleys		
19.	Any other (please specify)		

** Provide minimum numbers of items, in case exact numbers are not available

* Besides minimum analytical capabilities, expertise laboratory must be equipped with these items, if seeking / applying for recognition with desired numbers as mentioned against each item.

Appendix H

Details of equipment/instruments available in the Laboratory

(Please enclose separate sheet if space is inadequate)

S. No.	Instrument/Equipment	Make/Model	Procurement document/bills available (√/x)	Standard operating procedure (SOP's) available (√/x)	Measuring range	Accuracy % ±	Month & year of purchase	Month & year placed in service	Calibration Status Internal/External
1.	AAS								
2.	GC								
3.	Flame photometer								
4.	Mercury analyzer								
5.	BOD incubator								
6.	Analytical balances								
7.	Autoclave								
8.	pH meter								
9.	Conductivity meter								
10.	Bacteriological incubator								
11.	Spectrophotometer (visible)								
12.	Turbidity meter								
13.	Noise level meter								
14.	High volume sampler								
15.	Stack monitoring kit								
16.	RSPM sampler								
17.	Meteorological sensor								

(Please provide details on separate sheet, if space is inadequate)

* If external, mention date of calibration validity.

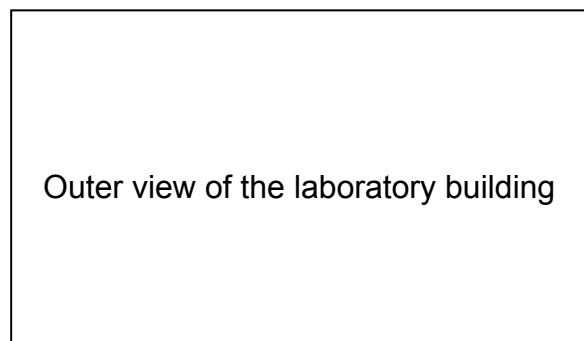
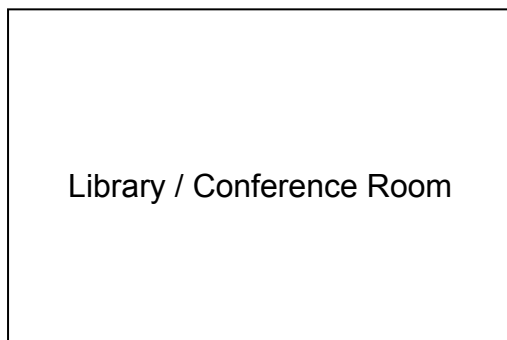
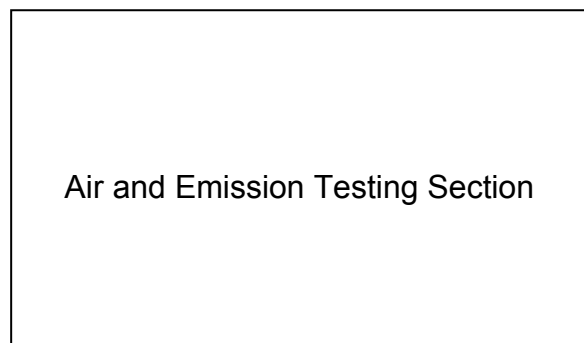
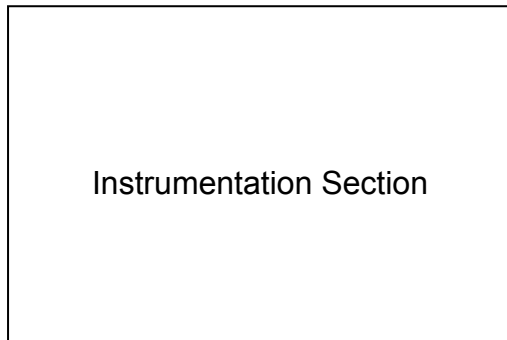
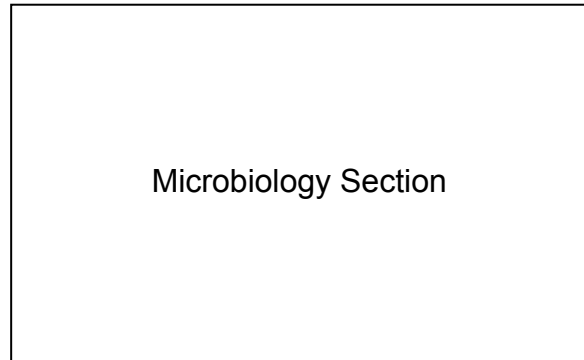
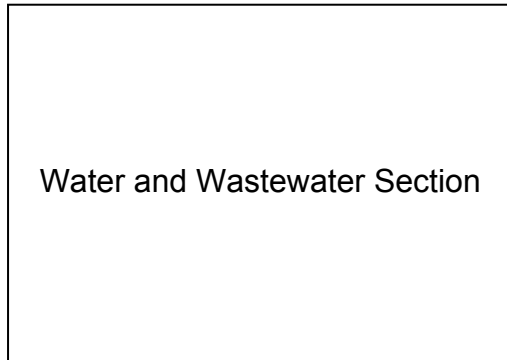
Appendix I

METHOD DETAILS OF TEST PARAMETERS MARKED AS √ AT APPENDIX A TO F
(Please enclose separate sheet, if space is inadequate)

S. No.	Parameter	Method adopted (Please provide method details viz. Method Nos., page details)	Measuring Range	Minimum Detection Limit (MDL)	SOP's Available (√/x)
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					

Attachments

1. Provide coloured scanned photograph showing inner view / work area of the laboratory for the following sections.



2. Enclose Layout Plan of the laboratory with the application.

TERMS & CONDITIONS FOR RECOGNITION OF LABORATORIES UNDER THE ENVIRONMENT (PROTECTION) ACT, 1986

The following terms and conditions shall be observed for recognition of laboratories under Section 12 (1) (b) of the Environment (Protection) Act, 1986.

1. The laboratory (Private/NGOs) shall be legally identifiable and registered with an appropriate statutory body i.e. local govt., state govt. or central govt.
2. The laboratory shall perform all the functions as mentioned in Rule 9 of the Environment (Protection) Rules, 1986.
3. It shall carry out the tests as per the method prescribed by the Central Government of any authorities constituted under Section 3 (3) of the Environment (Protection) Act, 1986 from time to time.
4. The test report shall be recorded in Form III of the Environment (Protection) Rules 1986 in triplicate. It shall be signed by the Government Analyst and be sent to the officer from whom the sample is received by the laboratory.
5. It shall carry out those tests, which are specified in APPENDIX-A to F of the application and it shall not carry out any other test on the samples given.
6. The laboratory shall charge rates not exceeding those fixed for EPA recognized laboratories.
7. The laboratory shall not charge rates higher than the rates they charge to any other Government or Public Sector organization.
8. The laboratory shall ensure that a sample submitted to it for testing will only be tested by a person, recognized as 'Government Analyst' by Central Government under provisions of the Environment (Protection) Act and as notified in the official gazette from time to time.
9. When a Government Analyst ceases to be in the services of the Laboratory, the Head of the Laboratory shall report this fact to the Central Government within fifteen days and simultaneously take steps for filling up this vacancy.
10. Any report signed by the Government Analyst may be used as evidence of facts in a court of law as per Section 14 of the Environment (Protection) Act, 1986. The laboratory shall provide all facilities to the 'Government Analyst' for giving evidence in a court of law, if it becomes necessary.
11. It shall maintain complete secrecy in respect of the test results. These shall not be divulged to any person or authority other than the Officer empowered under Section 11 of the Act of the court having jurisdiction.

12. Laboratory shall remain open for all working days except weekly off, Central & State Govt. holidays. Environmental laboratory of an educational institute/college will make arrangement of acceptance of samples and their analysis during any vacation exceeding more than 5 days i.e. summer/winter vacation etc.
13. It shall maintain proper records and registers and the calculations and test results in respect of tests conducted by them.
14. The laboratory and the Government Analysts employed by the laboratory shall participate in (Analytical Quality Control Exercises) organized by the Central Government or an organization designated by it to test the capabilities of the recognized laboratories and analysts from time to time. The fee if so, for AQC exercise has to be paid by the participating laboratory to the designated organization.
15. If feel necessary, Central Government will send dummy environmental samples to the laboratory to keep constant check over the laboratories of the results of the sample, which are to be analyzed, free of cost by the laboratory and results will be provided to the Central Government.
16. If the laboratory is sent samples from an establishment with which it has got connections through ownership or other means which make it improper for the laboratory to carry out the tests with respect to that sample, it shall disclose the fact to the empowered officers or authority sending the sample and shall refuse the samples.
17. It shall be the responsibility of the laboratory to maintain properly the necessary infrastructure for conducting tests successfully.
18. In case the laboratory desires to make a mention of its recognition as environmental laboratory in its letter heads, printed material, signboards, etc., it shall specify the period of recognition and such mention of the recognition shall cease immediately after the expiry of recognition.
19. The laboratory shall comply with all the rules and regulations notified under the Environment (Protection) Act, 1986.
20. The recognition shall become effective from the date of its Gazette Notification up to a period of five years or revocation whichever is earlier.
21. The Central Government / CPCB shall have the right to de-recognize the laboratory at any time in public interest without assigning any reason, if it is deemed necessary by the Central Government.
22. Private/NGO's laboratory shall maintain complaint register (bounded and numbered) having the following columns

Customer's name and address	Ref. No. if any	Date on which sample received	Name of complainer	Complaint has been rectified in the laboratory

23. The recognition accorded to Government Analysts in an environmental laboratory ceases along with the de-recognition of that environmental laboratory.
24. Each of environmental sample test report provided by the private laboratory to the customer must give in their footnote regarding availability of complaint register with the owner.
25. If the laboratory has shifted within city from the place, where it has been granted recognition earlier the laboratory will inform Central Govt. regarding the change as well as.
26. In case of take over of a recognized private laboratory, its ownership changes; occurrence of such changes must be communicated to the recognition body MOEF/CPCB within one month. Through, an appropriate mechanism that the laboratory continues to comply with the criteria against which recognition was originally granted will be verified.
27. After recognition, laboratory can be re-inspected at any time for its periodic assessment/performance.

The aforesaid terms and conditions are acceptable to us.

Dated:

Signature

(Head of Laboratory)

Full Name

(in capital letters)

Address

Seal of laboratory

ACKNOWLEDGEMENT RECEIPT FOR THE LABORATORY

I hereby acknowledge the receipt of the Central Pollution Control Board, (Ministry of Environment & Forests) Letter No. _____ dated _____ regarding the recognition of our laboratory as Environmental Laboratory under Section 12 of the Environment (Protection) Act, 1986.

I accept the terms & conditions mentioned in the MOEF/Central Board's letter cited.

Dated : _____

Signature _____
(Head of laboratory)

Full name _____
(in capital letters)

Address : _____

SEAL OF THE LABORATORY

**TERMS AND CONDITIONS FOR RECOGNITION OF GOVERNMENT ANALYSTS UNDER
THE ENVIRONMENT (PROTECTION) ACT, 1986**

1. A person working as analyst in a laboratory recognized as Environmental Laboratory under the Environment (Protection) Act, 1986 may be recognized as a Government Analyst if he has the qualifications and experience as prescribed in the Rule 10 of the Environment (Protection) Rules, 1986.
2. The recognition of a Government Analyst is with respect to the laboratory where he is employed at the time of recognition and which is recognized as an environmental laboratory under Section 12 of the Environment (Protection) Act, 1986. If he ceases to be in the services of the said laboratory, his recognition ceases forthwith from the date of termination of his service with the laboratory.
3. The recognition accorded to the Government Analyst in an Environmental Laboratory ceases along with the de-recognition of that environmental laboratory.
4. The recognition shall become effective from the date of Gazette Notification up to a period of five years or revocation, whichever is earlier.
5. The Government Analyst shall participate in any 'Round Robin Test' organized by the Central Government or an organization designated by it for testing his capabilities for conducting various environmental tests.
6. It shall be the responsibility of the Government Analyst to see that the instruments necessary for conducting various environmental tests are properly maintained and calibrated.
7. The test report by the Government Analyst submitted to the appropriate authority shall bear the seal of the laboratory.
8. The Government Analyst shall appear in a court of law for giving evidence, if required by the appropriate court / Central Govt.
9. The Government Analyst shall maintain complete secrecy in respect of test results.
10. The Government Analyst shall comply with the rules and regulations notified under the Environment (Protection) Act, 1986.

11. The Central Government shall have the right to derecognize the Government Analyst any time in public interest without assigning any reason.

The undersigned accept the above terms and conditions for recognition as Government Analyst.

1. Signature _____

Name _____

2. Signature _____

Name _____

3. Signature _____

Name _____

ACKNOWLEDGEMENT RECEIPT FOR THE ANALYST

I hereby acknowledge the receipt of the Central Pollution Control Board, (Ministry of Environment & Forests, Govt. of India) Letter No. _____ dated _____ enclosing the terms and conditions for recognizing me as a Government Analyst under Section 13 of the Environment (Protection) Act, 1986.

I accept the terms and conditions mentioned in the Central Board's letter cited.

Place :

Signature _____

Name _____

Address : _____

SIGNATURE ATTESTED

Signature of the Head of the Laboratory

SEAL OF THE LABORATORY

ANNEXURE V

**BIO-DATA PROFORMA FOR CONSIDERATION OF RECOGNITION AS GOVT.
ANALYST UNDER THE ENVIRONMENT (PROTECTION) ACT, 1986**

1. Name in full (In block letters) : _____
2. Father's name : _____
3. Date of birth : _____
4. Nationality : _____
5. Permanent Address : _____

6. Tel No. _____ Fax _____ E-Mail _____
7. Educational qualification (Give detail in chronological order from graduation & onward):

S. No.	Exam passed	Name of Board/ University/ Institution	Year of passing	Subjects taken	Division
1.					
2.					
3.					

8. Professional Training taken during last 3 years:

S. No.	Organization	Period of training		Subject of the training
		From	To	

9. Previous and current employment records:

S. No.	Name & address of employer	Type of organization Govt./Semi-Govt./ Public Sector/ Private/NGO	Period of service		Post held	Salary drawn	Job nature	Reason for leaving
			From	To				

Note: Please attach separate sheet, if space is inadequate.

10. Experience in Analysis of Environmental Samples _____ years.
11. Please provide details if earlier appointed / recognized as Govt. Analyst under The Environment (Protection) Act, 1986:
12. Declaration:

I declare that the foregoing information is correct and complete to the best of my knowledge and belief and nothing has been concealed / distorted. Documents in support of my educational qualification and experience will be provided, if required so.

Place:

(Signature of candidate)

Date:

Signature of the Head of the Laboratory

SEAL OF THE LABORATORY