

**APPLICATION FORM FOR  
Recognition of Laboratories under provisions of the Water (Prevention & Control  
of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981.**

01.		Name of the Laboratory	:	
02.		Type of Organisation (Please tick(√) the appropriate box)	:	<input type="checkbox"/> Government <input type="checkbox"/> Autonomous <input type="checkbox"/> Private
03.		Year of Establishment	:	Day                  Month                  Year
04.		Mailing Address with phone and Fax numbers	:	
05.		Objective and scope of Organisation (Attach a separate sheet if needed)	:	
06.	a.	Is your organisation presently recognised by any Pollution Control Board / other Govt. Department / National / International Accreditation Authority (Please tick(√) the appropriate box)	:	<input type="checkbox"/> Yes <input type="checkbox"/> No
	b.	If yes, name of such Board or Department with activities/ environmental parameters for which recognition/accreditation granted and validity period (Attach most recent documentary evidence)	:	
07.	A	Head of organisation	:	
		Name & Qualification	:	
		Address	:	

	B	Laboratory Incharge	:		
		Name and Designation	:		
		Address	:		
		Qualification	:		
		Experience	:		
	C.	Details of Officers/Scientific and analytical personnel/Staff (Attach separate sheet if needed according to the following format)		:	
Sl. No.	Name & Designation		Qualification/ Experience & Year of joining	Whether employed full time or part time/contract basis	Specialization
08.		Floor area available for Laboratory (Also attach a drawing of Laboratory layout showing the work area)		:	
09.		Type of test materials for which recognition sought for [Please tick chosen item(s)]		:	
		<b>GROUP - A</b>			<b>GROUP - B</b>
		1. <input type="checkbox"/> Noise Monitoring			1. <input type="checkbox"/> Water & Waste Water
		2. <input type="checkbox"/> Meteorological Monitoring			2. <input type="checkbox"/> Soil, Sludge, Sediment
		3. <input type="checkbox"/> Ambient Air			3. <input type="checkbox"/> Hazardous Waste
		4. <input type="checkbox"/> Fugitive emission			4. <input type="checkbox"/> Any other
		5. <input type="checkbox"/> Source Emission(Stack)			
		6. <input type="checkbox"/> Any other			

10.	Scope of recognition for testing								
Test Materials (Specify group(s) as per column 9 above)			Name of parameters (Annexure I)		Methods Followed with appropriate reference		Range of testing		*Measurement Uncertainty
11	Type of test undertaken in the laboratory				:				
12	Number of Samples analysed during the last one year and parameters covered during this period (Attach separate sheet, if required)				:				
13	Details of major projects undertaken pertaining to environmental studies ( if any)				:				
14	List of specially fabricated glassware devices (distillation, soxhlet, digestion, column etc.)				:				
15	List of instrument/equipment with relevant information (documentary evidence must be available during inspection)								
Sl. No.	Name	Operator as on date	Quantity	Make	Date of Installation	Lab code & location	Frequency of calibration	Functional Status	Availability of SOP for the instruments

\* *Not required with application but Lab must adopt procedure to identify sources of uncertainty*

16.		Procedures adopted for sampling of Test materials for which recognition sought (column 9)	:	
17.		Procedures for handling of sample	:	
18.		Specify the quality control procedure for monitoring validity of test undertaken	:	
19.		Sources of reagent water	:	
20.		Disposal system	:	
21.		Procedure for safe laboratory practice	:	

**Fee Structure :**

All applicant laboratories have to deposit a non refundable processing fee while submitting application for recognition of the State Board. The fee structure will be as follows:

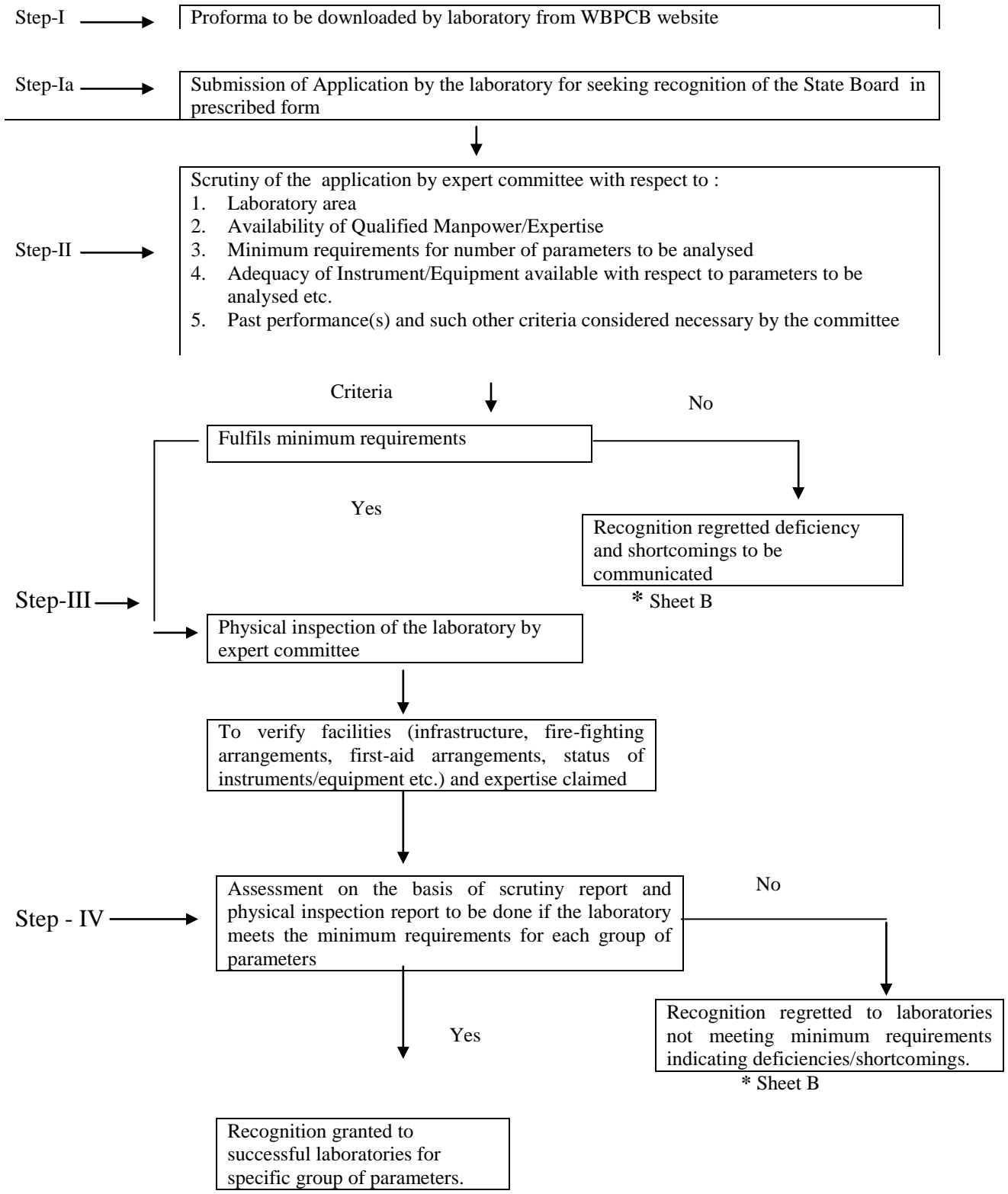
Rs 12000/- for test(s) under both Groups A & B and Rs 8000/- for test(s) under either group A or group B(Column 9).

**Office Seal**

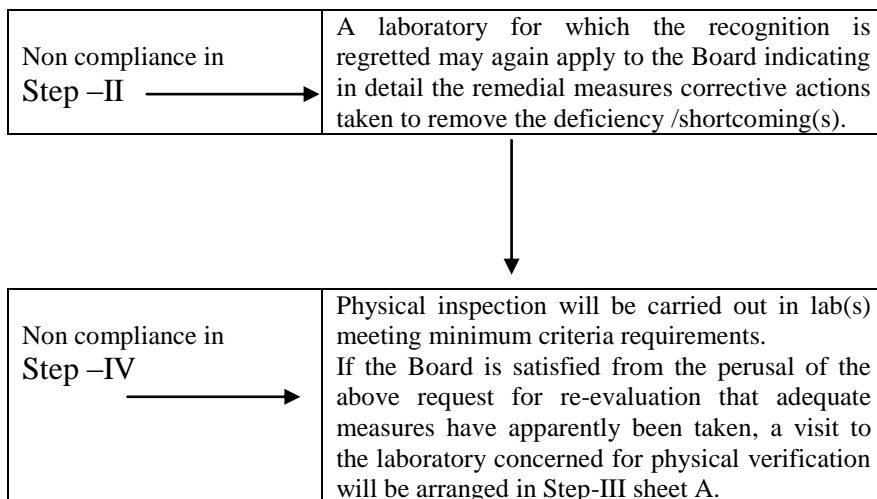
**Signature of Head of the Organisation**

( Each page of the duly filled in application form should be authenticated before submission)

**OUTLINE OF THE PROCEDURE FOR EVALUATION OF LABORATORY FOR RECOGNITION**



**PROCEDURE FOR RE-EVALUATION OF REJECTED APPLICATIONS**



If the State Board desires, AQC samples prepared under the direct supervision of the Board may be sent randomly to the laboratories for blind folded performance test for evaluation of their analytical performance.

## Annexure I

### LIST OF PARAMETERS (GROUP- A)

#### A. Ambient Air / Fugitive Emissions

Sl. No.	Parameter
1	Nitrogen dioxide as NO <sub>2</sub> *
2	Sulphur dioxide (SO <sub>2</sub> )*
3	PM <sub>10</sub> *
4	PM <sub>2.5</sub> *
5	Ammonia*
6	Carbon monoxide*
7	Chlorine
8	Fluoride(Particulate/ Gaseous)
9	Non methane hydrocarbon
10	Lead*
11	Methane
12	Ozone*
13	Benzene* Toluene Xylene (BTX)
14	Polycyclic aromatic hydrocarbon (PAH) Benzo(a)pyrene* & others
15	Volatile Organic Carbon
16	Nickel*
17	Arsenic*
18	Any other(please specify)

\* 12 Mandatory parameters for ambient air quality monitoring

#### B. Stack Gases/source emission

Sl. No.	Parameter
1	Particulate matter
2	Sulphur dioxide
3	Velocity & flow
4	Carbon dioxide
5	Carbon monoxide
6	Temperature
7	Oxygen
8	Oxides of nitrogen
9	Acid mist
10	Ammonia
11	Chlorine
12	Fluoride (Particulate)

13	Fluoride (Gaseous)
14	Hydro-chloric acid
15	Total Hydro carbon
16	Hydrogen Sulphide
17	Carbon disulphide
18	Mercaptan
19	Any other(please specify)

### C. Noise Level

Sl. No.	Parameter
1	Ambient noise (Leq, Lmax, Lmin etc,)
2	Noise Source measurement
3	Any other(please specify)

### D. Meteorological Monitoring

Sl. No.	Parameter
1.	Ambient Temperature
2.	Wind direction
3.	Wind speed
4.	Relative Humidity
5.	Solar radiation
6.	Rain fall
7.	Mixing depth/Inversion height
8.	Any other(please specify)

## LIST OF PARAMETERS (GROUP B)

### A) Water and waste water

#### I) Physical Tests

Sl. No.	Parameter
1.	Conductivity
2.	Colour
3.	pH
4.	Fixed & volatile solids
5.	Total solids
6.	Total dissolved solids
7.	Total suspended solids
8.	Turbidity
9.	Temperature
10.	Velocity & discharge Measurement of industrial effluent stream
11.	Flocculation test (Jar test)
12.	Odour
13.	Salinity
14.	Settleable solids
15.	Sludge volume index (SVI)
16.	Any other (please specify)

#### II) Inorganic

##### (i) General & Non-metallic

Sl. No.	Parameter
1.	Acidity
2.	Alkalinity
3.	Ammonical nitrogen
4.	Chloride
5.	Chlorine residual
6.	Dissolved oxygen
7.	Fluoride
8.	Hardness (total and calcium)
9.	Total kjehldal nitrogen (TKN)
10.	Nitrite nitrogen
11.	Nitrate nitrogen
12.	Phosphate
13.	Sulphate
14.	Bromide

15.	Carbon dioxide
16.	Chlorine demand
17.	Iodine
18.	Sulphite
19.	Silica
20.	Cyanide
21.	Sulphide
22.	Any other(please specify)

## ii) Metals

Sl. No.	Parameter
1.	Boron (B)
2.	Cadmium (Cd)
3.	Calcium (Ca)
4.	Chromium (Cr) Total
5.	Chromium (Cr) Hexavalent
6.	Copper (Cu)
7.	Iron (Fe)
8.	Lead (Pb)
9.	Magnesium (Mg)
10.	Mercury (Hg)
11.	Nickel (Ni)
12.	Potassium (K)
13.	Sodium (Na)
14.	Sodium absorption ratio (SAR)
15.	Zinc (Zn)
16.	Arsenic (As)
17.	Aluminium (Al)
18.	Beryllium (Be)
19.	Barium (Ba)
20.	Lithium (Li)
21.	Manganese (Mn)
22.	Selenium (Se)
23.	Silver (Ag)
24.	Strontium (Sr)
25.	Tin (Sn)
26.	Antimony (Sb)
27.	Cobalt (Co)
28.	Vanadium (V)
29.	Any other(please specify)

### (III) Organics (General) and Trace Organics

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

### IV) Microbiological Tests

Sl. No.	Parameter
1.	Total Coliform
2.	Faecal Coliform
3.	E. Coli
4.	Total plate count
5.	Enterococcus
6.	Coliphage
7.	Any other(please specify)

### V) Toxicological Tests

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

## VI) Biological Tests

Sl. No.	Parameter
1.	Benthic organism identification and count
2.	Macrophytic identification
3.	Planktonic identification count
4.	Measurement of various diversity index
5.	Saprobity Index
6.	Chlorophyll
7.	Primary productivity
8.	P/R Ratio
9.	Any other(please specify)

## B) Characterization of Hazardous Waste

Sl. No.	Parameter
1.	Preparation of Leachate (TCLP extract/water extract)
2.	Corrosivity
3.	Ignitability (Flash point)
4.	Reactivity
5.	Toxicity
6.	Measurement of heavy metals/pesticides in the waste/leachate
7.	Any other(please specify)

## C) Soil/Sludge/Sediment and Solid Waste

Sl. No.	Parameter
1.	Boron
2.	Cation Exchange Capacity (CEC)
3.	Electrical Conductivity (EC)
4.	Nitrogen available
5.	Organic carbon/matter (chemical method)
6.	pH
7.	Phosphorous (available)
8.	Phosphate (ortho)
9.	Phosphate (total)

10.	Potassium
11.	SAR in soil extract
12.	Sodium
13.	Soil moisture
14.	TKN
15.	Calorific value
16.	Ammonia
17.	Bicarbonate
18.	Calcium
19.	Calcium carbonate
20.	Chloride
21.	Colour
22.	Exchangeable sodium percentage (ESP)
23.	Gypsum requirement
24.	Humic Acid
25.	Heavy metal
26.	Magnesium
27.	Mechanical soil analysis
28.	Nitrate
29.	Nitrite
30.	PAH
31.	Pesticide
32.	Potash (available)
33.	Sulphate
34.	Sulphur
35.	TOC
36.	Total water soluble salt
37.	Water holding capacity
38.	Any other(please specify)