

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI
ORIGINAL APPLICATION NO. 693 OF 2023**

IN THE MATTER OF:

In re: News Item titled "Pollution Control Boards are the Weak Link" appearing in Deccan Herald dated 24.10.2023.

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N.D.o.H. 10.04.2026

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Date: 01.04.2026

Filed by:

Place: New Delhi

D. Baijal

Mr Dhananjay Baijal
Advocate for Respondent
(Telangana Pollution Control Board)
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**BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

ORIGINAL APPLICATION No.693 OF 2023

IN THE MATTER OF:

News Item titled “Pollution Control Boards are the weak link” appearing in Deccan Herald dated 24.10.2023.

AFFIDAVIT OF TELANGANA POLLUTION CONTROL BOARD IN COMPLIANCE OF THE ORDERS DATED 14/10/2025 AND 08/01/2026 PASSED IN ORIGINAL APPLICATION No. 693 OF 2023, BY THE HON’BLE NATIONAL GREEN TRIBUNAL, PRINCIPAL BENCH, NEW DELHI.

I, Ravi Gugulothu, S/o.G.Bheema, aged 44 years, the Member Secretary, Telangana Pollution Control Board (hereinafter to be referred as “TGPCB”), having it’s office at A3, Paryavarana Bhavan, Industrial Estate, Opp.Sanathnagar Police Station, Sanathnagar, Hyderabad-500018, do hereby solemnly affirm and state on oath as under that: -

I have perused and verified the official records and having understood the directions issued by the Hon’ble National Green Tribunal, Principal Bench, New Delhi (hereinafter to be referred as “NGT”) in the Orders dated 14.10.2025 and 08.01.2026 in Original Application No. 693 of 2023, arising from the Suo-motu cognizance taken on the News Item titled — “*Pollution Control Boards are the weak link*” directing the State Pollution Control Boards to file an Affidavit.

The Hon’ble NGT, vide order dated 08.01.2026, directed all SPCBs/PCCs to furnish updated information regarding vacancies, laboratory infrastructure, analytical parameters, and NABL recognition in affidavit form, with a copy to CPCB, and to provide the same in the prescribed Google Spreadsheet within four weeks, to enable CPCB to file a consolidated status report before the Hon’ble Tribunal on 10.04.2026.



In compliance with the above directions, the TGPCB has filed Affidavit before the Hon'ble NGT, New Delhi on 05.12.2025 and in further compliance of CPCB's communication dated 18.03.2026 & 27.03.2026, the TGPCB has submitted the updated information regarding status of vacancy filling, analytical parameters, laboratory infrastructure and equipment in the Google Spreadsheet provided and the same is submitted in the form of affidavit, duly incorporating the updated information and the same are annexed as **Annexure-I & II**.

It is humbly submitted that the office of the answering-deponent is ready and willing to co-operate and contribute in preparation of the proposed remedial measure to strengthen the State Pollution Control Boards including laboratory facilities, and is committed to adhere to any of the remedial suggestions proposed by your good office and the Hon'ble NGT in future, in the larger interest of public.

What is stated herein above is true and correct to the best of my knowledge, information and belief, and I believe the same to be true.

Solemnly affirmed at Hyderabad on 28th day of March, 2026.


DEPONENT


MEMBER SECRETARY
Telangana Pollution Control Board,
Paryavarana Bhavan, A-3,
Industrial Estate, Sanathnagar,
Hyderabad-500 018.

VERIFICATION

Verified on this 28th day of March, 2026 at Hyderabad that the contents of the above affidavit are true and correct to the best of my knowledge and that no part of it is false and nothing material has been concealed there from.



ATTESTED


M. SADA SIVA KUMAR REDDY, B.Com., B.L.,
ADVOCATE & NOTARY
Appointed by Govt., India
G.O Ms. No 198 Rev (Regn II), dt. 11 04 2000
102, Saraswathi Enclave, Bhagyanagar Colony,
Kukatpally, Hyderabad, T.S., India.


DEPONENT

MEMBER SECRETARY
Telangana Pollution Control Board,
Paryavarana Bhavan, A-3,
Industrial Estate, Sanathnagar,
Hyderabad-500 018.

ANNEXURE-I

PART A: STATUS OF FILLING OF VACANT POSTS

Name of the Board / Committee: Telangana Pollution Control Board

Category of post	Status of Sanctioned posts in Number			Details of current vacancies in number		Action Taken (Approval of the Govt. , Engagement agency, Advertisement, Exam date etc.)	The time line by which the vacancy will be filled (in months)
	Sanctioned	Filled posts as on 30.11.2025	Current Vacancy as on 30.11.2025				
a) Scientific	65	40	25	a) Direct	22	The Government of Telangana accorded permission for filling up of Assistant Scientist – 20 by way of Direct Recruitment through Telangana Public Service Commission vide G.O.Ms.No.115, Finance (HRM.VII) Department, dt. 06.09.2023.	The Board has requested the Secretary, Telangana Public Service Commission vide Letters dt. 19.09.2024, 17.10.2024, 19.11.2024, 01.02.2025 & 24.06.2025 to fill the vacancies on priority basis as per the directions of Hon'ble NGT to comply with the directions of the Hon'ble Supreme Court. The TGPCB requested the Public Service Commission to issue a separate Notification at the earliest vide letter dated. 24.11.2025, 18.12.2025 and 05.02.2026.
				b) Promotion	3	1. One (01) Senior Environmental Scientist is vacant since August-2025 due to promotion of SES to the post of JCES. One (01) Joint Chief Environmental Scientist post is vacant due to retirement of JCES on superannuation in the month of September - 2025. 2. One (1) Assistant Environmental Scientist relieved from service on lien in the month of April-2025.	Due to bifurcation of State, Seniority issue is there in the Board, after finalization of the seniority in the feeder category of Senior Environmental Scientist & Environmental Scientist, the post will be filled. After completion of the lien of relieved Assistant Environmental Scientist, this post will be filled by promotion.
				c) Deputation	0		

b) Engineering	80	56	24	a) Direct	22	<p>The Government of Telangana accorded permission for filling up of Assistant Environmental Engineer – 19 by way of Direct Recruitment through Telangana Public Service Commission (TGPSC) vide G.O.Ms.No.115, Finance (HRM.VII) Department, dt. 06.09.2023.</p> <p>The Board has requested to the Government to permit to fill up (1) Assistant Environmental Engineer for Direct Recruitment through TGPSC vide Letter dt. 19.09.2024.</p>	<p>The Board has requested the Secretary, Telangana Public Service Commission vide Letters dt. 19.09.2024, 17.10.2024, 19.11.2024, 01.02.2025 & 24.06.2025 to fill the vacancies on priority basis as per the directions of Hon'ble NGT to comply with the directions of the Hon'ble Supreme Court.</p> <p>The TGPCB requested the Public Service Commission to issue a separate Notification at the earliest vide letter dated 24.11.2025, 18.12.2025 and 05.02.2026.</p>
				b) Promotion	2	Two (2) Joint Chief Environmental Engineer posts are vacant due to retirement of JCEEs on superannuation in the month of August-2024 and June - 2025.	Due to bifurcation of State, Seniority issue is there in the Board, after finalization of the seniority in the feeder category, the post will be filled.
				c) Deputation	0		

c) Administration	85	24	61	a) Direct	46	<p>The Government of Telangana accorded permission for filling up of Accounts Officer – 01 and Statistician – 01 by way of Direct Recruitment through Telangana Public Service Commission (TGpsc) vide G.O.Ms.No.115, Finance (HRM.VII) Department, dt. 06.09.2023.</p> <p>&</p> <p>The Government of Telangana accorded permission for filling up of Junior Assistant– 05 by way of Direct Recruitment through Telangana Public Service Commission (TGpsc). As per the Selection list of TGpsc the Board has issued appointment orders to 5 candidates out of which 4 candidates reported to duty on 16.01.2026.</p> <p>The Board vide letters dated 23.07.2021, 03.01.2024 & 02.05.2025 has requested the Government for Upgradation of 42 Posts in TGPCB by suppression of Non-Technical Posts.</p> <p>Further, the Government of Telangana constituted the</p>	
				b) Promotion	15	<p>Senior Accountant – 1 and Senior Assistant – 14.</p> <p>After finalization of the seniority in the feeder category, the Senior Accountant post will be filled.</p> <p>There are no eligible candidates in the feeder category. The Senior Assistant posts will be filled as and when the eligible candidates are available in the feeder category.</p>	

				c) Deputation	0	One (01) Senior Administrative Manager post was filled on 01.01.2026 by deputation basis.	
Total	230	120	110				

Specific remarks, if any: The Board is regularly following up with Telangana Public Service Commission to fill up the Recruitment posts. The TGPCB requested the Public Service Commission to issue a separate Notification at the earliest vide letter dated. 05.02.2026.


 Senior Administrative Manager
 Telangana Pollution Control Board,
 Head Office, Sanathnagar,
 Hyderabad - 500 018.



-True Copy-

Details	Name	Mobile Number	E mail Id	Whatsapp Number
Dealing Official (Administration Section)	Smt. Aruna	9177303112	ao-admn- tspcb@telangana.g ov.in	
2nd Dealing official (Central Laboratory)	Sri.D.Prasad, SES	9177303234	ses- tspcb@telangana.g ov.in	9177303234

Data Updated(Vacancy details or Laboratory details)		Remarks, if any Kindly specify the data which have been modified i.e. laboratory parameter/ promotional vacancy/ deputation vacancy/ sanctioned strength etc.
Data Submitted on (Date):	27.02.2025	
Data Updated on (Date):	28.03.2025	Remarks column added
Data Updated on (Date):	28.04.2025	2 Regional Labs added.
Data Updated on (Date):	14.11.2025 & 18.11.2025	AQC & PT results of 2025
Data Updated on (Date):	20.03.2026	Instruments & NABL accreditation details updated

S. P. Somayajulu
 JOINT CHIEF ENVIRONMENTAL SCIENTIST (FAC)
 CENTRAL LABORATORY
 TELANGANA POLLUTION CONTROL BOARD
 Paryavarana Bhavan, A-3, I.E., Sanath Nagar,
 Hyderabad-500 018

Note: It is requested to please ensure that each sheet is created separately for each laboratory and rename the sheet accordingly. For e.g. Central Laboratory, Regional Laboratory etc

LABORATORY ANALYTICAL FACILITIES

Name of the Board / Committee: **Telangana Pollution Control Board, Hyderabad**

PART I: Facility available for monitoring of environmental parameters:

S. No.	Parameters	Facilities Available (Yes / No)	If facility is not available, Specify Timeline for addition of this parameter. (in months)	Action Taken for addition of this parameter (Specification finalized / procurement initiated / work awarded / outsourced)	Remarks
A. Sample Matrix / Group of Water and Wastewater					
(a) Physical Tests					
1	Temperature	Yes			
2	Colour	Yes			
3	pH	Yes			
4	Turbidity	Yes			
5	Conductivity	Yes			
6	Total Solids	Yes			
7	Total Dissolved Solids (TDS)	Yes			
8	Total Suspended Solids (TSS)	Yes			
(b) Inorganic Tests					
(i) General & Non-metallic					
1	Alkalinity	Yes			
2	Chloride	Yes			
3	Cyanide	Yes			
4	Dissolved oxygen	Yes			
5	Nitrite nitrogen	Yes			
6	Nitrate nitrogen	Yes			
7	Ammonical nitrogen	Yes			
8	Fluoride	Yes			
9	Hardness (Total)	Yes			
10	Calcium	Yes			
11	Magnesium	Yes			
12	Phosphate	Yes			
13	Sulphate	Yes			
14	Sulphide	Yes			
15	Total Residual chlorine (TRC)	Yes			
(ii) Trace Metals Tests					
1	Aluminium (Al)	Yes			
2	Arsenic (As) Total	Yes			
3	Barium	Yes			
4	Boron	Yes			
5	Chromium (Cr) Hexavalent	Yes			
6	Chromium (Cr) Total	Yes			
7	Cadmium (Cd)	Yes			
8	Cobalt (Co)	Yes			
9	Copper (Cu)	Yes			
10	Iron (Fe)	Yes			
11	Lead (Pb)	Yes			
12	Manganese (Mn)	Yes			
13	Mercury (Hg)	Yes			
14	Nickel (Ni)	Yes			
15	Potassium (K)	Yes			
16	Sodium (Na)	Yes			
17	Vanadium (V)	Yes			
18	Zinc (Zn)	Yes			
19	Selenium (Se)	Yes			
(c) Organics (General) and Trace Organics Tests					
1	Biological Oxygen Demand (BOD)	Yes			
2	Chemical oxygen demand (COD)	Yes			
3	Oil & Grease	Yes			
4	Phenolic Compounds as C ₆ H ₅ OH	Yes			
5	Benzopyrene	Yes			

S. K. Srinivas

JOINT CHIEF ENVIRONMENTAL SCIENTIST (FA)
CENTRAL LABORATORY
TELANGANA POLLUTION CONTROL BOARD
Paryavara Bhavan, A-3, I.E., Sanath Nagar,
Hyderabad-500 018.

6	Pesticides				
6.a	Organochlorine Pesticides (OCPs) Tests				
i	Aldrin	Yes			
ii	Alpha Endosulphan	Yes			
iii	p,p'-DDT	Yes			
iv	Alpha-HCH	Yes			
v	Beta HCH	Yes			
vi	Beta Endosulphan	Yes			
vii	Gama-HCH	Yes			
viii	o,p'-DDT	Yes			
ix	p,p'-DDE	Yes			
6.b	Organophosphorus Pesticides (OPPs) Tests				
i	Malathion	Yes			
ii	Methyl parathion	Yes			
iii	Chlorpyrifos	Yes			
iv	Dimethoate	Yes			
v	Dieldrin	Yes			
vi	Ethion	Yes			
(d) Microbiological Tests					
1	Total Coliform	Yes			
2	Faecal Coliform	Yes			
3	E. Coli	Yes			
4	Faecal Streptococci	Yes			
(e) Toxicological Tests					
1	Bioassay method for evaluation of toxicity using fish (90% survival of fish after 96 hrs in 100% effluent)	Yes			
B. Sample Matrix / Group of Solid / Solid Waste					
(a) Soil / Sediment / Compost Tests					
1	Cation Exchange Capacity (CEC)	Yes			
2	Electrical Conductivity (EC)	Yes			
3	Organic carbon (Chemical Method)	Yes			
4	pH	Yes			
5	Soil moisture	Yes			
6	Total nitrogen	Yes			
7	Metals by digestion (As, Cd, Cr, Pb, Ni etc.)	Yes			
(b) Hazardous Waste (Liquid / Slurry / Sludge / Solid / Semi-Solid) Tests					
1	Corrosivity	Yes			
2	Ignitability (Flash Point)	Yes			
3	Loss on Drying at 1050C (% Moisture Content)	Yes			
4	Loss on Drying at 5500C (% Organic Content)	Yes			
5	pH	Yes			
6	Organic carbon/matter (Chemical Method)	Yes			
7	Calorific Value	Yes			
8	Toxicity Characteristics leaching procedure (TCLP) Leachate and Metals in Leachate (As,Cd,Cr, Pb, Ni)	Yes			
C. Sample Matrix / Group of Analytes: Air					
(a) Ambient Air					
1	Nitrogen dioxide as NO2	Yes			
2	Sulphur dioxide (SO2)	Yes			
3	Particulate matter (PM10)	Yes			
4	Particulate matter (PM2.5)	Yes			
5	Carbon Monoxide	Yes			
6	Ozone	Yes			
7	Benzene	Yes			
8	Ammonia	Yes			
9	Metals in Particulate Matter, Pb	Yes			
10	Metals in Particulate Matter, As	Yes			
11	Metals in Particulate Matter, Ni	Yes			
12	Particulate Benzo-a-Pyrene (BaP)	Yes			
(b) Stack Gas / Stationary Source Emission					
1	Particulate Matter	Yes			
2	Sulphur Dioxide	Yes			
3	Carbon Dioxide	Yes			
4	Carbon Monoxide (NDIR based Method)	No	12 months		Presently electro chemical based is being used
5	Temperature	Yes			
6	Moisture	Yes			
7	Oxygen	Yes			

7	Meteorological tower (All in one telescopic Mast) with sensors comprising wind speed, wind direction, ambient temp., Relative humidity, Solar radiation, rainfall etc.	Yes			
8	Nitrogen Cylinder portable	Yes			
9	Activated Charcoal tubes/ Tenex	Yes			
10	Barometer (Digital)	Yes			
11	Isokinetic Stack Monitoring Kit complete with Stack monitoring instrument panel with inclined cum vertical manometer, Cold Box, Vacuum pump, Glass assembly impingers	Yes			
12	Modified S type Stainless steel Pitot tube (Standard length) with Assembly	Yes			
13	Monoblock type, rotary design vacuum pump	Yes			
14	Orsat Apparatus	Yes			
15	Source emission monitoring Impingers train set with spare impingers 100 ml & 225 ml capacity	Yes			
16	Stainless steel heated Sampling Probes with thimble holders short and long	Yes			
17	Flue Gas analyzer	Yes			
18	Thermometer/ Thermocouple	Yes			
19	Calibrator for Noise Meters	Yes			
20	Digital Sound level (Noise) Metres	Yes			
21	Portable TOC Analyzer for emission monitoring.	No	12 months		
22	Polyurethane Foam PUF Sampler	Yes			
b) Optional Requirements					
1	Anemometer	Yes			
2	Weather Monitoring system	Yes			
3	Wind speed/wind direction monitor	Yes			
4	Continuous Ambient Air Monitoring System, Fixed	Yes			
5	Continuous PM10 Analyzer	Yes			
6	Continuous Ambient Air Monitoring System, Mobile	No			
7	Continuous PM2.5 analyzer	Yes			
8	Ambient Nitrogen Oxides (NO-NO2-NOx Analyzer	Yes			
9	Ambient Ozone Analyzer	Yes			
10	Ambient BTEX Analyzer	Yes			
11	Multipoint Gas Calibration system	Yes			
12	Ambient Sulphur Dioxide analyzer	Yes			
13	Ambient Carbon Monoxide & Carbon dioxide analyzer	Yes			
14	Total Hydrocarbon analyzer	No			
15	Ambient Ammonia analyzer	Yes			
16	Zero Gas Generator	Yes			
17	Synthetic Air Cylinder	Yes			
18	Calibration Gas Cylinders, SO2, NO, CO, NH3, Benzene and Toluene One each with stainless steel Regulators	Yes			
19	Continuous emission monitoring equipment	No			
20	19 inch Rack mounting system for air analyzers	Yes			
21	Dry Gas Meter	Yes			
22	Diesel Exhaust analyzer	No			
23	Exhaust CO/HC analyzer with Sampling Probe	No			
24	Automated Noise Monitoring System	Yes			
25	Integrating Sound level meter	Yes			

26	Continuous PM10& PM2.5 Monitoring Analyzer TEOM system	Yes			
27	Top loading orifice kit for calibration of HVS	Yes			
28	Permeation tubes (SO2, NO-NO2-NOx, NH3, BTX)	Yes			
C. List of Equipment required for processing of Environmental Samples:					
a) Mandatory Requirements					
1	Accelerated Solvent Extraction (ASE) System	Yes			
2	Ammonia distillation assembly/TKN Analyzer	Yes			
3	Analytical Balance 4/5 digit & 6 digit (Digital)	Yes			
4	Aquarium for Toxicity bioassay test with complete accessories (*4 Nos)	Yes			
5	Autoclave (*2 Nos)	Yes			
6	Bacteriological Incubators Stainless steel (*2 Nos)	Yes			
7	Bio safety cabinets	Yes			
8	BOD Incubators (2 nos.)	Yes			
9	Centrifuge	Yes			
10	COD Digestion heated Blocks (2) with capacity 16 nos. or more	Yes			
11	Cyanide Distillation Assembly (3)	Yes			
12	Deep Freezer- Capacity 500 litre	Yes			
13	Laboratory Ball Mill Grinder	No	12 months		Presently being done with mortar and pestle
14	Laboratory Grinder	No	6 months		Presently being done with mortar and pestle
15	Laminar Flow bench for Microbiological analysis	Yes			
16	Magnetic Stirrer with heating system (*2 Nos)	Yes			
17	Mechanical Shaker	Yes			
18	Membrane Filtration assembly with vacuum pump (2 nos.)	Yes			
19	Microbial culture refrigerator	Yes			
20	Microwave Digester with 16 vessels/ Hot Plate	Yes			
21	Muffle Furnace (*1 Nos), Range 1200 C	Yes			
22	Phenol distillation assembly (3)	Yes			
23	Plate counter, Manual/Automatic	Yes			
24	Digestion Chambers/ Fume hood	Yes			
25	Digital Thermometer & Humidity meter- All lab area	Yes			
26	Dispensers (Various capacities) up to 5, 10, 25 & 50 ml	Yes			
27	Filtration Assembly with vacuum pump	Yes			
28	Fluoride Distillation Assembly (3)	Yes			
29	Arsenic / Fluoride Glass Distillation assemblies	Yes			
30	Glass Double Distillation Assembly /Water Purification System	Yes			
31	Heating mantles (2 nos.)	Yes			
32	Hot plates (small, Medium and Large)(*2 nos.)	Yes			
33	Thermo Hygrometer	Yes			
34	Imhoff Cone	Yes			
35	Top loading Precision Digital Balance (minimum detection 0.001mg/0.01 mg) with anti-vibration facility- 3 nos. i.e 4/5 Digit (2 nos), - 6 Digit (1 no)	Yes			
36	Refrigerators Big Size 300 litres or more, double door- 2 nos.	Yes			
37	Rotary Evaporator (Buchi type) with water recirculating chiller	Yes			
38	Separating funnel shaker	No	6 months		
39	Soxhlet Apparatus	Yes			

JOINT CHIEF ENVIRONMENTAL SCIENTIST (FA)
CENTRAL LABORATORY
TELANGANA POLLUTION CONTROL BOARD

40	Solid Phase Extraction (SPE) /SPME Extraction system	Yes			
41	Thermometer (Alcohol)	Yes			
42	Dry & wet bulb Thermometer	Yes			
43	Toxicity characteristic leaching procedure (TCLP) Extractors (Zero head and Bottle)	Yes			
44	Ultra sonic water bath- Capacity 3 litre	Yes			
45	Water Bath with temperature control (*2 Nos)	Yes			
46	Water Bath with temp. for mercury sample digestion- 20 BOD Bottles	Yes			
D. Analytical Instruments at Environmental Laboratories					
a) Mandatory Requirements					
1	Atomic Absorption spectrometer - (AAS)- Flame, Hydride & Graphite Tube Atomizer (GTA)	Yes			
2	Binocular Stereo Zoom Microscope	Yes			
3	Bomb Calorimeter	Yes			
4	BTX Analyzer with BTX calibrator	Yes			
5	Colony counter	Yes			
6	Conductivity meter- 2 nos.	Yes			
7	Environment conditioning chamber	No	12 months		
8	Digital Burettes- 50 ml*2, 100 ml*2	No	6 months		
9	Dissolved Oxygen Meter (Bench model)	Yes			
10	Flame Photometer	Yes			
11	Flash Point Apparatus	Yes			
12	Gas Chromatograph Mass Spectrometer	Yes			Procurement of GC-MS/MS triple quade is under tendering process
13	High Performance Liquid Chromatograph (HPLC)	No	12 months		
14	Inductively Coupled Plasma (ICP) Spectrometer-OES	Yes			
15	Ion Chromatograph Anion & Cations	Yes	12 months		Not working
16	Methane and Non Methane (NMHC) Analyzer	No	12 months		
17	Microscope – 100x	Yes			
18	Microscope Binocular Research	Yes			
19	CO (NDIR based) Analyzer	No	12 months		
20	Nephelometer (Turbidity Meter)	Yes			
21	pH-Meter with combined electrode (3 point)- 2 nos.	Yes			
22	Specific ion Analyzer with ion selective electrodes	Yes			
23	Spectrophotometer Visible (Portable)	Yes			
24	TKN Analyzer semi-automatic with aluminum block digester	Yes			
25	UV-Vis Spectrophotometer	Yes			
26	Moisture Content Analyzer	Yes			
b) Optional Requirements					
1	Automatic Titration Assembly	Yes			
2	Carbon, Hydrogen, Nitrogen and Sulphur (CHNS) Elemental Analyzer	Yes			
3	EDXRF Analyzer/WDXRF Analyzer	NO			
4	Fourier-transform infrared Spectrometer (FTIR)	No			
5	Flocculator (Jar testing apparatus)	No			
6	Toxic Gas Analyzer	No			
7	Organic Halogen (AOX/TOX) Analyzer	No			
8	TOC Analyzer	No			
9	High Resolution Mass Spectrometer (HRGC-HRMS)	No			

10	Inductively Coupled Plasma Mass (ICP-MS) Spectrometer	No			
11	X Ray Fluorescence (XRF) Spectrometer (Portable)	No			
Specific remarks, if any:					

S. J. Somayaji
JOINT CHIEF ENVIRONMENTAL SCIENTIST (FAC)
CENTRAL LABORATORY
TELANGANA POLLUTION CONTROL BOARD
Paryavara Bhavan, A-3, I.E., Sanath Nagar,
Hyderabad-500 018.

Note: It is requested to please ensure that each sheet is created separately for each laboratory and rename the sheet accordingly. For e.g. Central Laboratory, Regional Laboratory etc

LABORATORY ANALYTICAL FACILITIES

Name of the Board / Committee: Central Laboratory, Telangana Pollution Control Board, Hyderabad

PART I: Facility available for monitoring of environmental parameters:

S. No.	Parameters	Facilities Available (Yes / No)	If facility is not available, Specify Timeline for addition of this parameter. (in months)	Action Taken for addition of this parameter (Specification finalized / procurement initiated / work awarded / outsourced)	Remarks
A. Sample Matrix / Group of Water and Wastewater					
(a) Physical Tests					
1	Temperature	Yes			
2	Colour	Yes			
3	pH	Yes			
4	Turbidity	Yes			
5	Conductivity	Yes			
6	Total Solids	Yes			
7	Total Dissolved Solids (TDS)	Yes			
8	Total Suspended Solids (TSS)	Yes			
(b) Inorganic Tests					
(i) General & Non-metallic					
1	Alkalinity	Yes			
2	Chloride	Yes			
3	Cyanide	Yes			
4	Dissolved oxygen	Yes			
5	Nitrite nitrogen	Yes			
6	Nitrate nitrogen	Yes			
7	Ammonical nitrogen	Yes			
8	Fluoride	Yes			
9	Hardness (Total)	Yes			
10	Calcium	Yes			
11	Magnesium	Yes			
12	Phosphate	Yes			
13	Sulphate	Yes			
14	Sulphide	Yes			
15	Total Residual chlorine (TRC)	Yes			
(ii) Trace Metals Tests					
1	Aluminium (Al)	Yes			
2	Arsenic (As) Total	Yes			
3	Barium	Yes			
4	Boron	Yes			
5	Chromium (Cr) Hexavalent	Yes			
6	Chromium (Cr) Total	Yes			
7	Cadmium (Cd)	Yes			
8	Cobalt (Co)	Yes			
9	Copper (Cu)	Yes			
10	Iron (Fe)	Yes			
11	Lead (Pb)	Yes			
12	Manganese (Mn)	Yes			
13	Mercury (Hg)	Yes			
14	Nickel (Ni)	Yes			
15	Potassium (K)	Yes			
16	Sodium (Na)	Yes			
17	Vanadium (V)	Yes			
18	Zinc (Zn)	Yes			
19	Selenium (Se)	Yes			
(c) Organics (General) and Trace Organics Tests					
1	Biological Oxygen Demand (BOD)	Yes			
2	Chemical oxygen demand (COD)	Yes			
3	Oil & Grease	Yes			
4	Phenolic Compounds as C ₆ H ₅ OH	Yes			
5	Benzopyrene	Yes			
6	Pesticides				
6.a	Organochlorine Pesticides (OCPs) Tests				

JOINT CHIEF ENVIRONMENTAL SCIENTIST (FAI)
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Hyderabad-500 018.

i	Aldrin	Yes			
ii	Alpha Endosulphan	Yes			
iii	p,p'-DDT	Yes			
iv	Alpha-HCH	Yes			
v	Beta HCH	Yes			
vi	Beta Endosulphan	Yes			
vii	Gama-HCH	Yes			
viii	o,p'-DDT	Yes			
ix	p,p'-DDE	Yes			
6.b Organophosphorus Pesticides (OPPs) Tests					
i	Malathion	Yes			
ii	Methyl parathion	Yes			
iii	Chlorpyrifos	Yes			
iv	Dimethoate	Yes			
v	Dieldrin	Yes			
vi	Ethion	Yes			
(d) Microbiological Tests					
1	Total Coliform	Yes			
2	Faecal Coliform	Yes			
3	E. Coli	Yes			
4	Faecal Streptococci	Yes			
(e) Toxicological Tests					
1	Bioassay method for evaluation of toxicity using fish (90% survival of fish after 96 hrs in 100% effluent)	Yes			
B. Sample Matrix / Group of Solid / Solid Waste					
(a) Soil / Sediment / Compost Tests					
1	Cation Exchange Capacity (CEC)	Yes			
2	Electrical Conductivity (EC)	Yes			
3	Organic carbon (Chemical Method)	Yes			
4	pH	Yes			
5	Soil moisture	Yes			
6	Total nitrogen	Yes			
7	Metals by digestion (As, Cd, Cr, Pb, Ni etc.)	Yes			
(b) Hazardous Waste (Liquid / Slurry / Sludge / Solid / Semi-Solid) Tests					
1	Corrosivity	Yes			
2	Ignitability (Flash Point)	Yes			
3	Loss on Drying at 1050C (% Moisture Content)	Yes			
4	Loss on Drying at 5500C (% Organic Content)	Yes			
5	pH	Yes			
6	Organic carbon/matter (Chemical Method)	Yes			
7	Calorific Value	Yes			
8	Toxicity Characteristics leaching procedure (TCLP) Leachate and Metals in Leachate (As,Cd,Cr, Pb, Ni)	Yes			
C. Sample Matrix / Group of Analytes: Air					
(a) Ambient Air					
1	Nitrogen dioxide as NO2	Yes			
2	Sulphur dioxide (SO2)	Yes			
3	Particulate matter (PM10)	Yes			
4	Particulate matter (PM2.5)	Yes			
5	Carbon Monoxide	Yes			
6	Ozone	Yes			
7	Benzene	Yes			
8	Ammonia	Yes			
9	Metals in Particulate Matter, Pb	Yes			
10	Metals in Particulate Matter, As	Yes			
11	Metals in Particulate Matter, Ni	Yes			
12	Particulate Benzo-a-Pyrene (BaP)	Yes			
(b) Stack Gas / Stationary Source Emission					
1	Particulate Matter	Yes			
2	Sulphur Dioxide	Yes			
3	Carbon Dioxide	Yes			
4	Carbon Monoxide (NDIR based Method)	No	12 months		Presently electro chemical based is being used
5	Temperature	Yes			
6	Moisture	Yes			
7	Oxygen	Yes			
8	Oxides of Nitrogen	Yes			
9	Halides (HCL/HF)	Yes			

(c) Noise Level				
1	Ambient Noise level measurement (20 to 140 dB)	Yes		
2	Source Noise Level Measurement (Industrial process, DG set- 20 to 140dB)	Yes		
(d) Meteorological Monitoring				
1	Ambient Temperature	Yes		
2	Wind direction	Yes		
3	Wind speed	Yes		
4	Relative Humidity	Yes		
5	Mixing Height	No		Presently, it is being taken from Meteorological dept.

Specific remarks, if any:

PART II: Details of Laboratory Infrastructure (Instruments and Equipment)

S. No.	Name of Instrument / Equipments	Available Yes / No	If the Instrument / Equipment is not available, Specify Timeline for procurement of this instrument (in months)	Action Taken for procurement of this Instrument / Equipment (Specification finalized / procurement initiated / work awarded / outsourced)	Remarks
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A. List of Instruments / Equipment for Sampling of Water, Wastewater and Soil / Hazardous Wastes

a) Mandatory Requirements

1	Portable / Pen type pH meter / pH strip	Yes			
2	Portable Dissolved Oxygen Meter / Field Fixing using chemicals	Yes			
3	Electrical Conductivity meter pen type	Yes			
4	Flow meter / Physical flow measuring	Yes			
5	GPS / Mobile with GPS app	Yes			
6	Ice Box (2 nos.) (150 litre & 100 litre capacities)	Yes			
7	Thermometer	Yes			
8	Stainless steel bucket with nylon rope and mug	Yes			
9	Ground water level measuring device	No	12 months		
10	Scoop / shovel	Yes			
11	Auger / core sampler	Yes			

b) Optional Requirements

1	Bottom Sampler / Depth sampler	Yes			
2	Chloroscope for residual chlorine	Yes			
3	Vandorn or equivalent water sampler (Automatic sampler when composite sampling to be done)	Yes			
4	Ekman Dredge	Yes			

B. List of Instruments / Equipment for Sampling of Ambient Air and Source Emission monitoring


a) Mandatory Requirements

1	Fine dust samplers PM2.5 (*4 Nos)	Yes			
2	Respirable Dust Sampler PM 10 (* 4 Nos)	Yes			
3	High Volume Sampler (SPM) (4 Nos)	Yes			
4	Handy Sampler with set of glass impingers (*2 Nos)	Yes			
5	Low Volume Sampler (LVS)	Yes			
6	Tedler bags different sizes	Yes			
7	Meteorological tower (All in one telescopic Mast) with sensors comprising wind speed, wind direction, ambient temp., Relative humidity, Solar radiation, rainfall etc.	Yes			
8	Nitrogen Cylinder portable	Yes			
9	Activated Charcoal tubes/ Tenex	Yes			

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 TELANGANA POLLUTION CONTROL BOARD
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 Hyderabad-500 018.

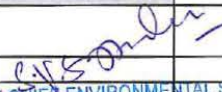
10	Barometer (Digital)	Yes			
11	Isokinetic Stack Monitoring Kit complete with Stack monitoring instrument panel with inclined cum vertical manometer. Cold Box, Vacuum pump, Glass assembly impingers	Yes			
12	Modified S type Stainless steel Pitot tube (Standard length) with Assembly	Yes			
13	Monoblock type, rotary design vacuum pump	Yes			
14	Orsat Apparatus	Yes			
15	Source emission monitoring Impingers train set with spare impingers 100 ml & 225 ml capacity	Yes			
16	Stainless steel heated Sampling Probes with thimble holders short and long	Yes			
17	Flue Gas analyzer	Yes			
18	Thermometer/ Thermocouple	Yes			
19	Calibrator for Noise Meters	Yes			
20	Digital Sound level (Noise) Metres	Yes			
21	Portable TOC Analyzer for emission monitoring,	No	12 months		
22	Polyurethane Foam PUF Sampler	Yes			
b) Optional Requirements					
1	Anemometer	Yes			
2	Weather Monitoring system	Yes			
3	Wind speed/wind direction monitor	Yes			
4	Continuous Ambient Air Monitoring System, Fixed	Yes			
5	Continuous PM10 Analyzer	Yes			
6	Continuous Ambient Air Monitoring System, Mobile	No			
7	Continuous PM2.5 analyzer	Yes			
8	Ambient Nitrogen Oxides (NO-NO2-NOx Analyzer	Yes			
9	Ambient Ozone Analyzer	Yes			
10	Ambient BTEX Analyzer	Yes			
11	Multipoint Gas Calibration system	Yes			
12	Ambient Sulphur Dioxide analyzer	Yes			
13	Ambient Carbon Monoxide & Carbon dioxide analyzer	Yes			
14	Total Hydrocarbon analyzer	No			
15	Ambient Ammonia analyzer	Yes			
16	Zero Gas Generator	Yes			
17	Synthetic Air Cylinder	Yes			
18	Calibration Gas Cylinders, SO2, NO, CO, NH3, benzene and Toluene One each with stainless steel Regulators	Yes			
19	Continuous emission monitoring equipment	No			
20	19 inch Rack mounting system for air analyzers	Yes			
21	Dry Gas Meter	Yes			
22	Diesel Exhaust analyzer	No			
23	Exhaust CO/HC analyzer with Sampling Probe	No			
24	Automated Noise Monitoring System	Yes			
25	Integrating Sound level meter	Yes			
26	Continuous PM10& PM2.5 Monitoring Analyzer TEOM system	Yes			
27	Top loading orifice kit for calibration of HVS	Yes			
28	Permeation tubes (SO2, NO-NO2-NOx, NH3, BTEX)	Yes			
C. List of Equipment required for processing of Environmental Samples:					
a) Mandatory Requirements					

1	Accelerated Solvent Extraction (ASE) System	Yes			
2	Ammonia distillation assembly/TKN Analyzer	Yes			
3	Analytical Balance 4/5 digit & 6 digit (Digital)	Yes			
4	Aquarium for Toxicity bioassay test with complete accessories (*4 Nos)	Yes			
5	Autoclave (*2 Nos)	Yes			
6	Bacteriological Incubators Stainless steel (*2 Nos)	Yes			
7	Bio safety cabinets	Yes			
8	BOD Incubators (2 nos.)	Yes			
9	Centrifuge	Yes			
10	COD Digestion heated Blocks (2) with capacity 16 nos. or more	Yes			
11	Cyanide Distillation Assembly (3)	Yes			
12	Deep Freezer- Capacity 500 litre	Yes			
13	Laboratory Ball Mill Grinder	No	12 months		Presently being done with mortar and pestle
14	Laboratory Grinder	No	6 months		Presently being done with mortar and pestle
15	Laminar Flow bench for Microbiological analysis	Yes			
16	Magnetic Stirrer with heating system (*2 Nos)	Yes			
17	Mechanical Shaker	Yes			
18	Membrane Filtration assembly with vacuum pump (2 nos.)	Yes			
19	Microbial culture refrigerator	Yes			
20	Microwave Digester with 16 vessels/ Hot Plate	Yes			
21	Muffle Furnace (*1 Nos), Range 1200 C	Yes			
22	Phenol distillation assembly (3)	Yes			
23	Plate counter, Manual/Automatic	Yes			
24	Digestion Chambers/ Fume hood	Yes			
25	Digital Thermometer & Humidity meter- All lab area	Yes			
26	Dispensers (Various capacities) up to 5, 10, 25 & 50 ml	Yes			
27	Filtration Assembly with vacuum pump	Yes			
28	Fluoride Distillation Assembly (3)	Yes			
29	Arsenic / Fluoride Glass Distillation assemblies	Yes			
30	Glass Double Distillation Assembly /Water Purification System	Yes			
31	Heating mantles (2 nos.)	Yes			
32	Hot plates (small, Medium and Large) (*2 nos.)	Yes			
33	Thermo Hygrometer	Yes			
34	Imhoff Cone	Yes			
35	Top loading Precision Digital Balance (minimum detection 0.001mg/0.01 mg) with anti-vibration facility- 3 nos. i.e 4/5 Digit (2 nos), - 6 Digit (1 no)	Yes			
36	Refrigerators Big Size 300 litres or more, double door- 2 nos.	Yes			
37	Rotary Evaporator (Buchi type) with water recirculating chiller	Yes			
38	Separating funnel shaker	No	12 months		
39	Soxhlet Apparatus	Yes			
40	Solid Phase Extraction (SPE) /SPME Extraction system	Yes			
41	Thermometer (Alcohol)	Yes			
42	Dry & wet bulb Thermometer	Yes			
43	Toxicity characteristic leaching procedure (TCLP) Extractors (Zero head and Bottle)	Yes			
44	Ultra sonic water bath- Capacity 3 litre	Yes			


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 TELANGANA POLLUTION CONTROL BOARD
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 Hyderabad-500-018.

45	Water Bath with temperature control (*2 Nos)	Yes			
46	Water Bath with temp. for mercury sample digestion- 20 BOD Bottles	Yes			
D. Analytical Instruments at Environmental Laboratories					
a) Mandatory Requirements					
1	Atomic Absorption spectrometer (AAS)- Flame, Hydride & Graphite Tube Atomizer (GTA)	Yes			
2	Binocular Stereo Zoom Microscope	Yes			
3	Bomb Calorimeter	Yes			
4	BTX Analyzer with BTX calibrator	Yes			
5	Colony counter	Yes			
6	Conductivity meter- 2 nos.	Yes			
7	Environment conditioning chamber	No	12 months		
8	Digital Burettes- 50 ml*2, 100 ml*2	No	6 months		
9	Dissolved Oxygen Meter (Bench model)	Yes			
10	Flame Photometer	Yes			
11	Flash Point Apparatus	Yes			
12	Gas Chromatograph Mass Spectrometer	Yes			Procurement of GC-MS/MS triple quade is under tendering process
13	High Performance Liquid Chromatograph (HPLC)	No	12 months		
14	Inductively Coupled Plasma (ICP) Spectrometer-OES	Yes			
15	Ion Chromatograph Anion & Cations	Yes	12 months		Not working
16	Methane and Non Methane (NMHC) Analyzer	No	12 months		
17	Microscope – 100x				
18	Microscope Binocular Research	Yes			
19	CO (NDIR based) Analyzer	No	12 months		
20	Nephelometer (Turbidity Meter)	Yes			
21	pH-Meter with combined electrode (3 point)- 2 nos.	Yes			
22	Specific ion Analyzer with ion selective electrodes	Yes			
23	Spectrophotometer Visible (Portable)	Yes			
24	TKN Analyzer semi-automatic with aluminum block digester	Yes			
25	UV-Vis Spectrophotometer	Yes			
26	Moisture Content Analyzer	Yes			
b) Optional Requirements					
1	Automatic Titration Assembly	Yes			
2	Carbon, Hydrogen, Nitrogen and Sulphur (CHNS) Elemental Analyzer	Yes			
3	EDXRF Analyzer/WDXRF Analyzer	Yes			
4	Fourier-transform infrared Spectrometer (FTIR)	No			
5	Flocculator (Jar testing apparatus)	No			
6	Toxic Gas Analyzer	No			
7	Organic Halogen (AOX/TOX) Analyzer	No			
8	TOC Analyzer	No			
9	High Resolution Mass Spectrometer (HRGC-HRMS)	No			
10	Inductively Coupled Plasma Mass (ICP-MS) Spectrometer	No			
11	X Ray Fluorescence (XRF) Spectrometer (Portable)	No			
Specific remarks, if any:					

Note: It is requested to please ensure that each sheet is created separately for each laboratory and rename the sheet accordingly. For e.g. Central Laboratory, Regional Laboratory etc					
LABORATORY ANALYTICAL FACILITIES					
Name of the Board / Committee: Telangana Pollution Control Board, Zonal Laboratory, Ramachandrapuram					
PART I: Facility available for monitoring of environmental parameters:					
S. No.	Parameters	Facilities Available (Yes / No)	If facility is not available, Specify Timeline for addition of this parameter. (in months)	Action Taken for addition of this parameter (Specification finalized / procurement initiated / work awarded /	Remarks
A. Sample Matrix / Group of Water and Wastewater					
(a) Physical Tests					
1	Temperature	Yes			
2	Colour	Yes			
3	pH	Yes			
4	Turbidity	Yes			
5	Conductivity	Yes			
6	Total Solids	Yes			
7	Total Dissolved Solids (TDS)	Yes			
8	Total Suspended Solids (TSS)	Yes			
(b) Inorganic Tests					
(i) General & Non-metallic					
1	Alkalinity	Yes			
2	Chloride	Yes			
3	Cyanide	Yes			
4	Dissolved oxygen	Yes			
5	Nitrite nitrogen	Yes			
6	Nitrate nitrogen	Yes			
7	Ammonical nitrogen	Yes			
8	Fluoride	Yes			
9	Hardness (Total)	Yes			
10	Calcium	Yes			
11	Magnesium	Yes			
12	Phosphate	Yes			
13	Sulphate	Yes			
14	Sulphide	Yes			
15	Total Residual chlorine (TRC)	Yes			
(ii) Trace Metals Tests					
1	Aluminium (Al)	No	6 months		
2	Arsenic (As) Total	Yes			
3	Barium	No	6 months		
4	Boron	Yes			
5	Chromium (Cr) Hexavalent	Yes			
6	Chromium (Cr) Total	Yes			
7	Cadmium (Cd)	Yes			
8	Cobalt (Co)	Yes			
9	Copper (Cu)	Yes			
10	Iron (Fe)	Yes			
11	Lead (Pb)	Yes			
12	Manganese (Mn)	Yes			
13	Mercury (Hg)	Yes			
14	Nickel (Ni)	Yes			
15	Potassium (K)	Yes			
16	Sodium (Na)	Yes			
17	Vanadium (V)	Yes			
18	Zinc (Zn)	Yes			
19	Selenium (Se)	Yes			
(c) Organics (General) and Trace Organics Tests					
1	Biological Oxygen Demand (BOD)	Yes			
2	Chemical oxygen demand (COD)	Yes			
3	Oil & Grease	Yes			
4	Phenolic Compounds as C ₆ H ₅ OH	Yes			
5	Benzopyrene	Yes			


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6	Pesticides			
6.a	Organochlorine Pesticides (OCPs) Tests			
i	Aldrin	Yes		
ii	Alpha Endosulphan	Yes		
iii	p,p'-DDT	Yes		
iv	Alpha-HCH	Yes		
v	Beta HCH	Yes		
vi	Beta Endosulphan	Yes		
vii	Gama-HCH	Yes		
viii	o,p'-DDT	Yes		
ix	p,p'-DDE	Yes		
6.b	Organophosphorus Pesticides (OPPs) Tests			
i	Malathion	Yes		
ii	Methyl parathion	Yes		
iii	Chlorpyriphos	Yes		
iv	Dimethoate	Yes		
v	Dieldrin	Yes		
vi	Ethion	Yes		
(d)	Microbiological Tests			
1	Total Coliform	Yes		
2	Faecal Coliform	Yes		
3	E. Coli	Yes		
4	Faecal Streptococci	Yes		
(e)	Toxicological Tests			
1	Bioassay method for evaluation of toxicity using fish (90% survival of fish after 96 hrs in 100% effluent)	Yes		
B. Sample Matrix / Group of Solid / Solid Waste				
(a) Soil / Sediment / Compost Tests				
1	Cation Exchange Capacity (CEC)	Yes		
2	Electrical Conductivity (EC)	Yes		
3	Organic carbon (Chemical Method)	Yes		
4	pH	Yes		
5	Soil moisture	Yes		
6	Total nitrogen	Yes		
7	Metals by digestion (As, Cd, Cr, Pb, Ni etc.)	Yes		
(b) Hazardous Waste (Liquid / Slurry / Sludge / Solid / Semi-Solid) Tests				
1	Corrosivity	Yes		
2	Ignitability (Flash Point)	Yes		
3	Loss on Drying at 1050C (% Moisture Content)	Yes		
4	Loss on Drying at 5500C (% Organic Content)	Yes		
5	pH	Yes		
6	Organic carbon/matter (Chemical Method)	Yes		
7	Calorific Value	Yes		
8	Toxicity Characteristics leaching procedure (TCLP) Leachate and Metals in Leachate (As,Cd,Cr, Pb, Ni)	No	12 months	
C. Sample Matrix / Group of Analytes: Air				
(a) Ambient Air				
1	Nitrogen dioxide as NO2	Yes		
2	Sulphur dioxide (SO2)	Yes		
3	Particulate matter (PM10)	Yes		
4	Particulate matter (PM2.5)	Yes		
5	Carbon Monoxide	Yes		
6	Ozone	Yes		
7	Benzene	Yes		
8	Ammonia	Yes		
9	Metals in Particulate Matter, Pb	Yes		
10	Metals in Particulate Matter, As	Yes		
11	Metals in Particulate Matter, Ni	Yes		
12	Particulate Benzo-a-Pyrene (BaP)	Yes		
(b) Stack Gas / Stationary Source Emission				
1	Particulate Matter	Yes		
2	Sulphur Dioxide	Yes		
3	Carbon Dioxide	Yes		
4	Carbon Monoxide (NDIR based Method)	No	12 months	Presently electro chemical based is being used
5	Temperature	Yes		

6	Moisture	Yes			
7	Oxygen	Yes			
8	Oxides of Nitrogen	Yes			
9	Halides (HCL/HF)	Yes			
(c) Noise Level					
1	Ambient Noise level measurement (20 to 140 dB)	Yes			
2	Source Noise Level Measurement (Industrial process, DG set- 20 to 140dB)	Yes			
(d) Meteorological Monitoring					
1	Ambient Temperature	Yes			
2	Wind direction	Yes			
3	Wind speed	Yes			
4	Relative Humidity	Yes			
5	Mixing Height	No			Presently, it is being taken from Meteorological dept.

Specific remarks, if any:

PART II: Details of Laboratory Infrastructure (Instruments and Equipment)

S. No.	Name of Instrument / Equipments	Available Yes / No	If the Instrument / Equipment is not available, Specify Timeline for procurement of this instrument (in months)	Action Taken for procurement of this Instrument / Equipment (Specification finalized / procurement initiated / work awarded / outsourced)	Remarks
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A. List of Instruments / Equipment for Sampling of Water, Wastewater and Soil / Hazardous Wastes**a) Mandatory Requirements**

1	Portable / Pen type pH meter / pH strip	Yes			
2	Portable Dissolved Oxygen Meter / Field Fixing using chemicals	Yes			
3	Electrical Conductivity meter pen type	Yes			
4	Flow meter / Physical flow measuring	No	6 months		
5	GPS / Mobile with GPS app	Yes			
6	Ice Box (2 nos.) (150 litre & 100 litre capacities)	Yes			
7	Thermometer	Yes			
8	Stainless steel bucket with nylon rope and mug	Yes			
9	Ground water level measuring device	No	12 months		
10	Scoop / shovel	Yes			
11	Auger / core sampler	Yes			

b) Optional Requirements

1	Bottom Sampler / Depth sampler	No			
2	Chloroscope for residual chlorine	Yes			
3	Vandom or equivalent water sampler (Automatic sampler when composite sampling to be done)	No			
4	Ekman Dredge	No			

B. List of Instruments / Equipment for Sampling of Ambient Air and Source Emission monitoring**a) Mandatory Requirements**

1	Fine dust samplers PM2.5 (*4 Nos)	Yes			
2	Respirable Dust Sampler PM 10 (* 4 Nos)	Yes			
3	High Volume Sampler (SPM) (4 Nos)	No	12 months		
4	Handy Sampler with set of glass impingers (*2 Nos)	Yes			
5	Low Volume Sampler (LVS)	No			
6	Tedler bags different sizes	Yes			

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 TELANGANA POLLUTION CONTROL BOARD
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 Hyderabad-500 018.

7	Meteorological tower (All in one telescopic Mast) with sensors comprising wind speed, wind direction, ambient temp., Relative humidity, Solar radiation, rainfall etc.	Yes			
8	Nitrogen Cylinder portable	Yes			
9	Activated Charcoal tubes/ Tenex	Yes			
10	Barometer (Digital)	No	6 months		
11	Isokinetic Stack Monitoring Kit complete with Stack monitoring instrument panel with inclined cum vertical manometer, Cold Box, Vacuum pump, Glass assembly impingers	Yes			
12	Modified S type Stainless steel Pitot tube (Standard length) with Assembly	Yes			
13	Monoblock type, rotary design vacuum pump	Yes			
14	Orsat Apparatus	Yes			
15	Source emission monitoring Impingers train set with spare impingers 100 ml & 225 ml capacity	Yes			
16	Stainless steel heated Sampling Probes with thimble holders short and long	Yes			
17	Flue Gas analyzer	Yes			
18	Thermometer/ Thermocouple	Yes			
19	Calibrator for Noise Meters	No	12 months		
20	Digital Sound level (Noise) Metres	Yes			
21	Portable TOC Analyzer for emission monitoring.	No	12 months		
22	Polyurethane Foam PUF Sampler	No			The equipment available at Central Laboratory is used
b) Optional Requirements					
1	Anemometer	Yes			
2	Weather Monitoring system	Yes			
3	Wind speed/wind direction monitor	Yes			
4	Continuous Ambient Air Monitoring System, Fixed	Yes			
5	Continuous PM10 Analyzer	Yes			
6	Continuous Ambient Air Monitoring System, Mobile	No			
7	Continuous PM2.5 analyzer	Yes			
8	Ambient Nitrogen Oxides (NO-NO2-NOx Analyzer	Yes			
9	Ambient Ozone Analyzer	Yes			
10	Ambient BTEX Analyzer	Yes			
11	Multipoint Gas Calibration system	Yes			
12	Ambient Sulphur Dioxide analyzer	Yes			
13	Ambient Carbon Monoxide & Carbon dioxide analyzer	Yes			
14	Total Hydrocarbon analyzer	No			
15	Ambient Ammonia analyzer	Yes			
16	Zero Gas Generator	No			
17	Synthetic Air Cylinder	No			
18	Calibration Gas Cylinders, SO2, NO, CO, NH3, Benzene and Toluene One each with stainless steel Regulators	Yes			
19	Continuous emission monitoring equipment	No			
20	19 inch Rack mounting system for air analyzers	Yes			
21	Dry Gas Meter	Yes			
22	Diesel Exhaust analyzer	No			
23	Exhaust CO/HC analyzer with Sampling Probe	No			

24	Automated Noise Monitoring System	No			
25	Integrating Sound level meter	No			
26	Continuous PM10& PM2.5 Monitoring Analyzer TEOM system	Yes			
27	Top loading orifice kit for calibration of HVS	No	6 months		
28	Permeation tubes (SO2, NO-NO2-NOx, NH3, BTX)	Yes			
C. List of Equipment required for processing of Environmental Samples:					
a) Mandatory Requirements					
1	Accelerated Solvent Extraction (ASE) System	No	Not applicable	Specialised parameters are analysed at Central	
2	Ammonia distillation assembly/TKN Analyzer	Yes			
3	Analytical Balance 4/5 digit & 6 digit (Digital)	Yes			
4	Aquarium for Toxicity bioassay test with complete accessories (*4 Nos)	Yes			
5	Autoclave (*2 Nos)	Yes			
6	Bacteriological Incubators Stainless steel (*2 Nos)	Yes			
7	Bio safety cabinets	No	12 months		
8	BOD Incubators (2 nos.)	Yes			
9	Centrifuge	No	6 months		
10	COD Digestion heated Blocks (2) with capacity 16 nos. or more	Yes			
11	Cyanide Distillation Assembly (3)	Yes			
12	Deep Freezer- Capacity 500 litre	Yes			
13	Laboratory Ball Mill Grinder	No	12 months		Presently being done with mortar and pestle
14	Laboratory Grinder	No	6 months		Presently being done with mortar and pestle
15	Laminar Flow bench for Microbiological analysis	Yes			
16	Magnetic Stirrer with heating system (*2 Nos)	Yes			
17	Mechanical Shaker	No	6 months		
18	Membrane Filtration assembly with vacuum pump (2 nos.)	Yes			
19	Microbial culture refrigerator	Yes			
20	Microwave Digester with 16 vessels/ Hot Plate	Yes			
21	Muffle Furnace (*1 Nos), Range 1200 C	Yes			
22	Phenol distillation assembly (3)	Yes			
23	Plate counter, Manual/Automatic	No	6 months		
24	Digestion Chambers/ Fume hood	Yes			
25	Digital Thermometer & Humidity meter- All lab area	Yes			
26	Dispensers (Various capacities) up to 5, 10, 25 & 50 ml	Yes			
27	Filtration Assembly with vacuum pump	Yes			
28	Fluoride Distillation Assembly (3)	No	6 months		
29	Arsenic / Fluoride Glass Distillation assemblies	No			
30	Glass Double Distillation Assembly /Water Purification System	Yes			
31	Heating mantles (2 nos.)	Yes			
32	Hot plates (small, Medium and Large) (*2 nos.)	Yes			
33	Thermo Hygrometer	Yes			
34	Imhoff Cone	Yes			
35	Top loading Precision Digital Balance (minimum detection 0.001mg/0.01 mg) with anti-vibration facility- 3 nos. i.e 4/5 Digit (2 nos), - 6 Digit (1 no)	Yes			


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36	Refrigerators Big Size 300 litres or more, double door- 2 nos.	Yes			
37	Rotary Evaporator (Buchi type) with water recirculating chiller	Yes			
38	Separating funnel shaker	No	6 months		
39	Soxhlet Apparatus	No	6 months		
40	Solid Phase Extraction (SPE) /SPME Extraction system	No	Not applicable	Specialised parameters are analysed at Central	
41	Thermometer (Alcohol)	Yes			
42	Dry & wet bulb Thermometer	Yes			
43	Toxicity characteristic leaching procedure (TCLP) Extractors (Zero head and Bottle)	No	12 months		
44	Ultra sonic water bath- Capacity 3 litre	No	6 months		
45	Water Bath with temperature control (*2 Nos)	Yes			
46	Water Bath with temp. for mercury sample digestion- 20 BOD Bottles	Yes			
D. Analytical Instruments at Environmental Laboratories					
a) Mandatory Requirements					
1	Atomic Absorption spectrometer (AAS)- Flame, Hydride & Graphite Tube Atomizer (GTA)	Yes			
2	Binocular Stereo Zoom Microscope	No	6 months		
3	Bomb Calorimeter	Yes			
4	BTX Analyzer with BTX calibrator	Yes			
5	Colony counter	No	6 months		
6	Conductivity meter- 2 nos.	Yes			
7	Environment conditioning chamber	No	12 months		
8	Digital Burettes- 50 ml*2, 100 ml*2	No	6 months		
9	Dissolved Oxygen Meter (Bench model)	Yes			
10	Flame Photometer	Yes			
11	Flash Point Apparatus	Yes			
12	Gas Chromatograph Mass Spectrometer	No		Specialised parameters are analysed at Central	GC is available
13	High Performance Liquid Chromatograph (HPLC)	No	Not applicable	Specialised parameters are analysed at Central	
14	Inductively Coupled Plasma (ICP) Spectrometer-OES	No	Not applicable	Specialised parameters are analysed at Central	
15	Ion Chromatograph Anion & Cations	No	Not applicable	Specialised parameters are analysed at Central	
16	Methane and Non Methane (NMHC) Analyzer	No	12 months		
17	Microscope – 100x	Yes			
18	Microscope Binocular Research	No	6 months		
19	CO (NDIR based) Analyzer	No	12 months		
20	Nephelometer (Turbidity Meter)	Yes			
21	pH-Meter with combined electrode (3 point)- 2 nos.	Yes			
22	Specific ion Analyzer with ion selective electrodes	Yes			
23	Spectrophotometer Visible (Portable)	Yes			
24	TKN Analyzer semi-automatic with aluminum block digester	Yes			
25	UV-Vis Spectrophotometer	Yes			
26	Moisture Content Analyzer	Yes			
b) Optional Requirements					
1	Automatic Titration Assembly	No			
2	Carbon, Hydrogen, Nitrogen and Sulphur (CHNS) Elemental Analyzer	No			
3	EDXRF Analyzer/WDXRF Analyzer	No			
4	Fourier-transform infrared Spectrometer (FTIR)	No			
5	Flocculator (Jar testing apparatus)	No			
6	Toxic Gas Analyzer	No			

7	Organic Halogen (AOX/TOX) Analyzer	No			
8	TOC Analyzer	No			
9	High Resolution Mass Spectrometer (HRGC-HRMS)	No			
10	Inductively Coupled Plasma Mass (ICP-MS) Spectrometer	No			
11	X Ray Fluorescence (XRF) Spectrometer (Portable)	No			
Specific remarks, if any:					

S/15/01/12
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TELANGANA POLLUTION CONTROL BOARD
Paryavaran Bhavan, A-3, I.E., Sanath Nagar,
Hyderabad-500 018.


Note: It is requested to please ensure that each sheet is created separately for each laboratory and rename the sheet accordingly . For e.g. Central Laboratory, Regional Laboratory etc					
LABORATORY ANALYTICAL FACILITIES					
Name of the Board / Committee: Telangana Pollution Control Board, Zonal Laboratory, Warangal					
PART I: Facility available for monitoring of environmental parameters:					
S. No.	Parameters	Facilities Available (Yes / No)	If facility is not available, Specify Timeline for addition of this parameter. (in months)	Action Taken for addition of this parameter (Specification finalized / procurement initiated / work)	Remarks
A. Sample Matrix / Group of Water and Wastewater					
(a) Physical Tests					
1	Temperature	Yes			
2	Colour	Yes			
3	pH	Yes			
4	Turbidity	Yes			
5	Conductivity	Yes			
6	Total Solids	Yes			
7	Total Dissolved Solids (TDS)	Yes			
8	Total Suspended Solids (TSS)	Yes			
(b) Inorganic Tests					
(i) General & Non-metallic					
1	Alkalinity	Yes			
2	Chloride	Yes			
3	Cyanide	Yes			
4	Dissolved oxygen	Yes			
5	Nitrite nitrogen	Yes			
6	Nitrate nitrogen	Yes			
7	Ammonical nitrogen	Yes			
8	Fluoride	Yes			
9	Hardness (Total)	Yes			
10	Calcium	Yes			
11	Magnesium	Yes			
12	Phosphate	Yes			
13	Sulphate	Yes			
14	Sulphide	Yes			
15	Total Residual chlorine (TRC)	Yes			
(ii) Trace Metals Tests					
1	Aluminium (Al)	No	6 months		
2	Arsenic (As) Total	Yes			
3	Barium	Yes			
4	Boron	Yes			
5	Chromium (Cr) Hexavalent	Yes			
6	Chromium (Cr) Total	Yes			
7	Cadmium (Cd)	Yes			
8	Cobalt (Co)	Yes			
9	Copper (Cu)	Yes			
10	Iron (Fe)	Yes			
11	Lead (Pb)	Yes			
12	Manganese (Mn)	Yes			
13	Mercury (Hg)	Yes			
14	Nickel (Ni)	Yes			
15	Potassium (K)	Yes			
16	Sodium (Na)	Yes			
17	Vanadium (V)	Yes			
18	Zinc (Zn)	Yes			
19	Selenium (Se)	Yes			
(c) Organics (General) and Trace Organics Tests					
1	Biological Oxygen Demand (BOD)	Yes			
2	Chemical oxygen demand (COD)	Yes			
3	Oil & Grease	Yes			
4	Phenolic Compounds as C ₆ H ₅ OH	Yes			
5	Benzyopyrene	Yes			
6	Pesticides				

S.V.S. and
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 CENTRAL LABORATORY
 TELANGANA POLLUTION CONTROL BOARD
 Panjavarana Bhavan, A-3, I.E., Sanath Nagar,
 Hyderabad-500 018.

6.a Organochlorine Pesticides (OCPs) Tests					
i	Aldrin	Yes			
ii	Alpha Endosulphan	Yes			
iii	p,p'-DDT	Yes			
iv	Alpha-HCH	Yes			
v	Beta HCH	Yes			
vi	Beta Endosulphan	Yes			
vii	Gamma-HCH	Yes			
viii	o,p'-DDT	Yes			
ix	p,p'-DDE	Yes			
6.b Organophosphorus Pesticides (OPPs) Tests					
i	Malathion	Yes			
ii	Methyl parathion	Yes			
iii	Chlorpyrifos	Yes			
iv	Dimethoate	Yes			
v	Dieldrin	Yes			
vi	Ethion	Yes			
(d) Microbiological Tests					
1	Total Coliform	Yes			
2	Faecal Coliform	Yes			
3	E. Coli	Yes			
4	Faecal Streptococci	Yes			
(e) Toxicological Tests					
1	Bioassay method for evaluation of toxicity using fish (90% survival of fish after 96 hrs in 100% effluent)	Yes			
B. Sample Matrix / Group of Solid / Solid Waste					
(a) Soil / Sediment / Compost Tests					
1	Cation Exchange Capacity (CEC)	Yes			
2	Electrical Conductivity (EC)	Yes			
3	Organic carbon (Chemical Method)	Yes			
4	pH	Yes			
5	Soil moisture	No			
6	Total nitrogen	Yes			
7	Metals by digestion (As, Cd, Cr, Pb, Ni etc.)	Yes			
(b) Hazardous Waste (Liquid / Slurry / Sludge / Solid / Semi-Solid) Tests					
1	Corrosivity	Yes			
2	Ignitability (Flash Point)	No	12 months		
3	Loss on Drying at 1050C (% Moisture Content)	Yes			
4	Loss on Drying at 5500C (% Organic Content)	Yes			
5	pH	Yes			
6	Organic carbon/matter (Chemical Method)	Yes			
7	Calorific Value	No			The equipment available at Central Lab is being used
8	Toxicity Characteristics leaching procedure (TCLP) Leachate and Metals in Leachate (As,Cd,Cr, Pb, Ni)	No	12 months		
C. Sample Matrix / Group of Analytes: Air					
(a) Ambient Air					
1	Nitrogen dioxide as NO2	Yes			
2	Sulphur dioxide (SO2)	Yes			
3	Particulate matter (PM10)	Yes			
4	Particulate matter (PM2.5)	Yes			
5	Carbon Monoxide	No			
6	Ozone	No			
7	Benzene	Yes			
8	Ammonia	Yes			
9	Metals in Particulate Matter, Pb	Yes			
10	Metals in Particulate Matter, As	Yes			
11	Metals in Particulate Matter, Ni	Yes			
12	Particulate Benzo-a-Pyrene (BaP)	Yes			
(b) Stack Gas / Stationary Source Emission					
1	Particulate Matter	Yes			
2	Sulphur Dioxide	Yes			
3	Carbon Dioxide	Yes			
4	Carbon Monoxide (NDIR based Method)	No	12 months		Presently electro chemical based is being used
5	Temperature	Yes			

7	Meteorological tower (All in one telescopic Mast) with sensors comprising wind speed, wind direction, ambient temp., Relative humidity, Solar radiation, rainfall etc.	Yes			
8	Nitrogen Cylinder portable	No	12 months		
9	Activated Charcoal tubes/ Tenex	Yes			
10	Barometer (Digital)	No	6 months		
11	Isokinetic Stack Monitoring Kit complete with Stack monitoring instrument panel with inclined cum vertical manometer, Cold Box, Vacuum pump, Glass assembly impingers	Yes			
12	Modified S type Stainless steel Pitot tube (Standard length) with Assembly	Yes			
13	Monoblock type, rotary design vacuum pump	Yes			
14	Orsat Apparatus	Yes			
15	Source emission monitoring Impingers train set with spare impingers 100 ml & 225 ml capacity	Yes			
16	Stainless steel heated Sampling Probes with thimble holders short and long	Yes			
17	Flue Gas analyzer	Yes			
18	Thermometer/ Thermocouple	Yes			
19	Calibrator for Noise Meters	No	12 months		
20	Digital Sound level (Noise) Metres	Yes			
21	Portable TOC Analyzer for emission monitoring.	No	12 months		
22	Polyurethane Foam PUF Sampler	No			The equipment available at Central Laboratory is used
b) Optional Requirements					
1	Anemometer	Yes			
2	Weather Monitoring system	Yes			
3	Wind speed/wind direction monitor	Yes			
4	Continuous Ambient Air Monitoring System, Fixed	No			
5	Continuous PM10 Analyzer	No			
6	Continuous Ambient Air Monitoring System, Mobile	No			
7	Continuous PM2.5 analyzer	No			
8	Ambient Nitrogen Oxides (NO-NO2-NOx Analyzer	No			
9	Ambient Ozone Analyzer	No			
10	Ambient BTEX Analyzer	No			
11	Multipoint Gas Calibration system	No			
12	Ambient Sulphur Dioxide analyzer	No			
13	Ambient Carbon Monoxide & Carbon dioxide analyzer	No			
14	Total Hydrocarbon analyzer	No			
15	Ambient Ammonia analyzer	No			
16	Zero Gas Generator	No			
17	Synthetic Air Cylinder	No			
18	Calibration Gas Cylinders, SO2, NO, CO, NH3B, benzene and Toluene One each with stainless steel Regulators	No			
19	Continuous emission monitoring equipment	No			
20	19 inch Rack mounting system for air analyzers	No			
21	Dry Gas Meter	No			
22	Diesel Exhaust analyzer	No			
23	Exhaust CO/HC analyzer with Sampling Probe	No			
24	Automated Noise Monitoring System	No			
25	Integrating Sound level meter	No			

26	Continuous PM10& PM2.5 Monitoring Analyzer TEOM system	No			
27	Top loading orifice kit for calibration of HVS	No			
28	Permeation tubes (SO2, NO-NO2-NOx, NH3, BTX)	No			
C. List of Equipment required for processing of Environmental Samples:					
a) Mandatory Requirements					
1	Accelerated Solvent Extraction (ASE) System	No	Not applicable	Specialised parameters are analysed at Central	
2	Ammonia distillation assembly/TKN Analyzer	Yes			
3	Analytical Balance 4/5 digit & 6 digit (Digital)	Yes			
4	Aquarium for Toxicity bioassay test with complete accessories (*4 Nos)	No	6 months		
5	Autoclave (*2 Nos)	Yes			
6	Bacteriological Incubators Stainless steel (*2 Nos)	Yes			
7	Bio safety cabinets	No	12 months		
8	BOD Incubators (2 nos.)	Yes			
9	Centrifuge	No	6 months		
10	COD Digestion heated Blocks (2) with capacity 16 nos. or more	Yes			
11	Cyanide Distillation Assembly (3)	Yes			
12	Deep Freezer- Capacity 500 litre	Yes			
13	Laboratory Ball Mill Grinder	No	12 months		Presently being done with mortar and pestle
14	Laboratory Grinder	No	6 months		Presently being done with mortar and pestle
15	Laminar Flow bench for Microbiological analysis	Yes			
16	Magnetic Stirrer with heating system (*2 Nos)	Yes			
17	Mechanical Shaker	No	6 months		
18	Membrane Filtration assembly with vacuum pump (2 nos.)	Yes			
19	Microbial culture refrigerator	Yes			
20	Microwave Digester with 16 vessels/ Hot Plate	No	12 months		
21	Muffle Furnace (*1 Nos), Range 1200 C	Yes			
22	Phenol distillation assembly (3)	Yes			
23	Plate counter, Manual/Automatic	No	6 months		
24	Digestion Chambers/ Fume hood	Yes			
25	Digital Thermometer & Humidity meter- All lab area	Yes			
26	Dispensers (Various capacities) up to 5, 10, 25 & 50 ml	Yes			
27	Filtration Assembly with vacuum pump	Yes			
28	Fluoride Distillation Assembly (3)	No	6 months		
29	Arsenic / Fluoride Glass Distillation assemblies	No			
30	Glass Double Distillation Assembly /Water Purification System	Yes			
31	Heating mantles (2 nos.)	No			
32	Hot plates (small, Medium and Large) (*2 nos.)	Yes			
33	Thermo Hygrometer	Yes			
34	Imhoff Cone	Yes			
35	Top loading Precision Digital Balance (minimum detection 0.001mg/0.01 mg) with anti-vibration facility- 3 nos. i.e 4/5 Digit (2 nos), - 6 Digit (1 no)	Yes			
36	Refrigerators Big Size 300 litres or more, double door- 2 nos.	Yes			
37	Rotary Evaporator (Buchi type) with water recirculating chiller	Yes			
38	Separating funnel shaker	No	6 months		


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 Hyderabad-500 018

39	Soxhlet Apparatus	No	6 months		
40	Solid Phase Extraction (SPE) /SPME Extraction system	No	Not applicable	Specialised parameters analysed at Central Lab	
41	Thermometer (Alcohol)	Yes			
42	Dry & wet bulb Thermometer	Yes			
43	Toxicity characteristic leaching procedure (TCLP) Extractors (Zero head and Bottle)	No	12 months		
44	Ultra sonic water bath- Capacity 3 litre	Yes			
45	Water Bath with temperature control (*2 Nos)	Yes			
46	Water Bath with temp. for mercury sample digestion- 20 BOD Bottles	No			
D. Analytical Instruments at Environmental Laboratories					
a) Mandatory Requirements					
1	Atomic Absorption spectrometer (AAS)- Flame, Hydride & Graphite Tube Atomizer (GTA)	Yes			
2	Binocular Stereo Zoom Microscope	Yes			
3	Bomb Calorimeter	No			
4	BTX Analyzer with BTX calibrator	No			
5	Colony counter	No			
6	Conductivity meter- 2 nos.	Yes			
7	Environment conditioning chamber	No	12 months		
8	Digital Burettes- 50 ml*2, 100 ml*2	No	6 months		
9	Dissolved Oxygen Meter (Bench model)	Yes			
10	Flame Photometer	Yes			
11	Flash Point Apparatus	No	12 months		
12	Gas Chromatograph Mass Spectrometer	No		Specialised parameters analysed at Central Lab	GC available
13	High Performance Liquid Chromatograph (HPLC)	No		Specialised parameters analysed at Central Lab	
14	Inductively Coupled Plasma (ICP) Spectrometer-OES	No		Specialised parameters analysed at Central Lab	
15	Ion Chromatograph Anion & Cations	No		Specialised parameters analysed at Central Lab	
16	Methane and Non Methane (NMHC) Analyzer	No	12 months		
17	Microscope – 100x	No	12 months		
18	Microscope Binocular Research	Yes			
19	CO (NDIR based) Analyzer	No	12 months		Presently electro chemical based is being used
20	Nephelometer (Turbidity Meter)	Yes			
21	pH-Meter with combined electrode (3 point)- 2 nos.	Yes			
22	Specific ion Analyzer with ion selective electrodes	Yes			
23	Spectrophotometer Visible (Portable)	Yes			
24	TKN Analyzer semi-automatic with aluminum block digester	Yes			
25	UV-Vis Spectrophotometer	Yes			
26	Moisture Content Analyzer	No			
b) Optional Requirements					
1	Automatic Titration Assembly	No			
2	Carbon, Hydrogen, Nitrogen and Sulphur (CHNS) Elemental Analyzer	No			
3	EDXRF Analyzer/WDXRF Analyzer	No			
4	Fourier-transform infrared Spectrometer (FTIR)	No			
5	Flocculator (Jar testing apparatus)	No			
6	Toxic Gas Analyzer	No			
7	Organic Halogen (AOX/TOX) Analyzer	No			
8	TOC Analyzer	No			

9	High Resolution Mass Spectrometer (HRGC-HRMS)	No			
10	Inductively Coupled Plasma Mass (ICP-MS) Spectrometer	No			
11	X Ray Fluorescence (XRF) Spectrometer (Portable)	No			
Specific remarks, if any:					

S. J. Srinivasulu

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 TELANGANA POLLUTION CONTROL BOARD
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 Hyderabad-500 018.

PART III: DETAILS OF LABORATORIES ESTABLISHED UNDER THE WATER (P & CP) ACT, 1974

Laboratory established by the Board, as per Section 17 (2) of Water Act - Nos.				Laboratories / Institutes specified by State Govt., as State Water Laboratory as per Section 52 (1) of Water Act (other than those set up by Board) - Nos								NABL Accreditation			EPA Recognition		
No. of Laboratories established / recognised	No. of Laboratories (out of those given in column No. (1)) notified in Official Gazette	No. of remaining Laboratories Planned for Notification (out of those laboratories given in column No.(1)).	Time line required for notification of Laboratories given in column No. (3) (in months)	No. of Laboratories established / specified		No. of Laboratories (out of those given in column No. (5 & 6)) notified in Official Gazette		No. of remaining Laboratories Planned for Notification (out of those laboratories given in column No. (5 & 6)).		Time line required for notification of Laboratories given in column No. (9 & 10) (in months)		No. of Board's Laboratories 17 (2)	No. of State Water Laboratories 52(1)		No. of Board's Laboratories 17 (2)	No. of State Water Laboratories 52(1)	
				Govt.	Pvt.	Govt.	Pvt.	Govt.	Pvt.	Govt.	Pvt.		Govt.	Pvt.		Govt.	Pvt.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
3	1	2	6 months.	2	-	2	-	-	-	-	-	1	2	-	1	1	-

Note: The list of the laboratory may be attached separately (Board, State Govt. and Private)

Specific remarks, if any: TGPCB has addressed a letter to the Government, dated: 12.07.2024 and 19.11.2025 for issuing notification and the same is being pursued.

PART IV: DETAILS OF LABORATORIES ESTABLISHED UNDER THE AIR (P & CP) ACT, 1981

Laboratory established by the Board, as per Section 17 (2) of Air Act - Nos.				Laboratories / Institutes specified by State Govt., as State Air Laboratory as per Section 28 (1) of Air Act (other than those set up by Board) - Nos								NABL Accreditation			EPA Recognition		
No. of Laboratories established / recognised	No. of Laboratories (out of those given in column No. (1)) notified in Official Gazette	No. of remaining Laboratories Planned for Notification (out of those laboratories given in column No.(1)).	Time line required for notification of Laboratories given in column No. (3) (in months)	No. of Laboratories established / specified		No. of Laboratories (out of those given in column No. (5 & 6)) notified in Official Gazette		No. of remaining Laboratories Planned for Notification (out of those laboratories given in column No. (5 & 6)).		Time line required for notification of Laboratories given in column No. (9 & 10) (in months)		No. of Board's Laboratories 17 (2)	No. of State Air Laboratories 28(1)		No. of Board's Laboratories 17 (2)	No. of State Air Laboratories 28(1)	
				Govt.	Pvt.	Govt.	Pvt.	Govt.	Pvt.	Govt.	Pvt.		Govt.	Pvt.		Govt.	Pvt.
-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12	-13	-14	-15	-16	-17	-18
3	1	2	6 months.	1	-	1	-	-	-	-	-	1	1	-	1	1	-

Note: The list of the laboratory may be attached separately (Board, State Govt. and Private)

Specific remarks, if any: TGPCB has addressed a letter to the Government, dated: 12.07.2024 and 19.11.2025 for issuing notification and the same is being pursued.

Central Lab: Assessment for renewal of NABL Accreditation is completed on 24 & 25.01.2026 and is under process at NABL.	"NABL accreditation for Zonal Labs (2 Nos.) are under process"	"Zonal Lab-Warangal: The application for E (P) Act recognition will be taken up after shifting and installation of the equipments to the new building. Zonal Lab-RCP: It is expected to complete the construction in 1 to 2 years time. The application for E (P) Act recognition will be taken up after shifting to the new building."
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Central Laboratory and 2 Zonal Laboratories are certified with ISO 9001: 2015 and ISO 45001:2018.

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 CENTRAL LABORATORY
 TELANGANA POLLUTION CONTROL BOARD
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PART V: DETAILS OF LABORATORIES PARTICIPATED ON ANALYTICAL QUALITY CONTROL AND QUALITY ASSURANCE CONDUCTED BY CPCB IN RESPECT OF WATER QUALITY																
S. No.	Name of the Laboratory with address	No. of Parameters in AQC Exercise					Number of Parameters Attempted					% Parameters Successful				
		33rd Exercise	34th Exercise	35th Exercise	36th Exercise	37th Exercise	33rd Exercise	34th Exercise	35th Exercise	36th Exercise	37th Exercise	33rd Exercise	34th Exercise	35th Exercise	36th Exercise	37th Exercise
1	Central Laboratory, TGPCB, Hyderabad	18	22	-	18	30	13	22	-	18	30	100	100	-	94.4	100
2	Zonal Laboratory, TGPCB, Warangal	-	22	-	-	-	-	20	-	-	-	-	72.72	-	-	-
3	Zonal Laboratory, TGPCB, RC Puram	-	22	-	-	-	-	22	-	-	-	-	50	-	-	-
Note: 33rd Exercise (Metals) held in 2020-2021, 34th Exercise (General and Physico-Chemical parameters) held in 2021-2022 35th Exercise (Pesticides) held in 2023 36th Exercise (General and Physico-Chemical parameters) held in 2023-2024 37th Exercise (General and Physico-Chemical parameters) held in 2025																
Provide details of each Laboratories (Central, Regional/Zonal, District) in separate Row																
Specific remarks, if any:																

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 CENTRAL LABORATORY
 TELANGANA POLLUTION CONTROL BOARD
 Paryavarana Bhavan, A-3, I.E., Sanath Nagar,
 Hyderabad-500 018.

PART VI: DETAILS OF LABORATORIES PARTICIPATED ON PROFICIENCY TESTING (PT)						
S. No.	Name of Laboratory with address	Year of PT participation	PT Sample Provider (Name and Address)	Number of Parameters in Accreditation Scope	Number of Parameters for which Laboratory participated in PT	Number of Parameter with Satisfactory Results
1	Central Laboratory, TGPCB, Hyderabad	2022	M/s.Green Economy Initiatives Pvt. Ltd.	98	21	21
		2023	M/s.Green Economy Initiatives Pvt. Ltd.	98	29	29
		2024	M/s.Green Economy Initiatives Pvt. Ltd.	98	15	15
		2025	M/s.Green Economy Initiatives Pvt. Ltd.	98	30	30
2	Zonal Lab, RC Puram	2025	M/s.Green Economy Initiatives Pvt. Ltd.	-	10	10
3	Zonal Lab, Warangal	2025	M/s.Green Economy Initiatives Pvt. Ltd.	-	10	10
Note: Provide details of each Laboratory (Central, Regional/Zonal, District) in separate Row						
Specific remarks, if any:						

S.V.S. Only
 JOINT CHIEF ENVIRONMENTAL SCIENTIST
 CENTRAL LABORATORY
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 Paryavarana Bhavan, A-3, I.E., Sanath Nagar,
 Hyderabad-500 019 (FAC)

Note: It is requested to please ensure that each sheet is created separately for each laboratory and rename the sheet accordingly. For e.g. Central Laboratory, Regional Laboratory etc

LABORATORY ANALYTICAL FACILITIES

Name of the Board / Committee: Telangana Pollution Control Board, Regional Lab, Nalgonda

PART I: Facility available for monitoring of environmental parameters:

S. No.	Parameters	Facilities Available (Yes / No)	If facility is not available, Specify Timeline for addition of this parameter. (in months)	Action Taken for addition of this parameter (Specification finalized / procurement initiated /	Remarks
A. Sample Matrix / Group of Water and Wastewater					
(a) Physical Tests					
1	Temperature	Yes			
2	Colour	No			
3	pH	Yes			
4	Turbidity	No			
5	Conductivity	Yes			
6	Total Solids	Yes			
7	Total Dissolved Solids (TDS)	Yes			
8	Total Suspended Solids (TSS)	Yes			
(b) Inorganic Tests					
(i) General & Non-metallic					
1	Alkalinity	No			
2	Chloride	No			
3	Cyanide	No			
4	Dissolved oxygen	No			
5	Nitrite nitrogen	No			
6	Nitrate nitrogen	No			
7	Ammonical nitrogen	No			
8	Fluoride	No			
9	Hardness (Total)	No			
10	Calcium	No			
11	Magnesium	No			
12	Phosphate	No			
13	Sulphate	No			
14	Sulphide	No			
15	Total Residual chlorine (TRC)	No			
(ii) Trace Metals Tests					
1	Aluminium (Al)	No			
2	Arsenic (As) Total	No			
3	Barium	No			
4	Boron	No			
5	Chromium (Cr) Hexavalent	No			
6	Chromium (Cr) Total	No			
7	Cadmium (Cd)	No			
8	Cobalt (Co)	No			
9	Copper (Cu)	No			
10	Iron (Fe)	No			
11	Lead (Pb)	No			
12	Manganese (Mn)	No			
13	Mercury (Hg)	No			
14	Nickel (Ni)	No			
15	Potassium (K)	No			
16	Sodium (Na)	No			
17	Vanadium (V)	No			
18	Zinc (Zn)	No			
19	Selenium (Se)	No			
(c) Organics (General) and Trace Organics Tests					
1	Biological Oxygen Demand (BOD)	No			
2	Chemical oxygen demand (COD)	No			
3	Oil & Grease	No			
4	Phenolic Compounds as C ₆ H ₅ OH	No			
5	Benzopyrene	No			

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6	Pesticides				
6.a	Organochlorine Pesticides (OCPs) Tests				
i	Aldrin	No			
ii	Alpha Endosulphan	No			
iii	p,p'-DDT	No			
iv	Alpha-HCH	No			
v	Beta HCH	No			
vi	Beta Endosulphan	No			
vii	Gama-HCH	No			
viii	o,p'-DDT	No			
ix	p,p'-DDE	No			
6.b	Organophosphorus Pesticides (OPPs) Tests				
i	Malathion	No			
ii	Methyl parathion	No			
iii	Chlorpyrifos	No			
iv	Dimethoate	No			
v	Dieldrin	No			
vi	Ethion	No			
(d) Microbiological Tests					
1	Total Coliform	No			
2	Faecal Coliform	No			
3	E. Coli	No			
4	Faecal Streptococci	No			
(e) Toxicological Tests					
1	Bioassay method for evaluation of toxicity using fish (90% survival of fish after 96 hrs in 100% effluent)	No			
E. Sample Matrix / Group of Solid / Solid Waste					
(a) Soil / Sediment / Compost Tests					
1	Cation Exchange Capacity (CEC)	No			
2	Electrical Conductivity (EC)	No			
3	Organic carbon (Chemical Method)	No			
4	pH	No			
5	Soil moisture	No			
6	Total nitrogen	No			
7	Metals by digestion (As, Cd, Cr, Pb, Ni etc.)	No			
(b) Hazardous Waste (Liquid / Slurry / Sludge / Solid / Semi-Solid) Tests					
1	Corrosivity	No			
2	Ignitability (Flash Point)	No			
3	Loss on Drying at 1050C (% Moisture Content)	No			
4	Loss on Drying at 5500C (% Organic Content)	No			
5	pH	No			
6	Organic carbon/matter (Chemical Method)	No			
7	Calorific Value	No			
8	Toxicity Characteristics leaching procedure (TCLP) Leachate and Metals in Leachate (As,Cd,Cr, Pb, Ni)	No			
C. Sample Matrix / Group of Analytes: Air					
(a) Ambient Air					
1	Nitrogen dioxide as NO2	Yes			
2	Sulphur dioxide (SO2)	Yes			
3	Particulate matter (PM10)	Yes			
4	Particulate matter (PM2.5)	Yes			
5	Carbon Monoxide	No			
6	Ozone	No			
7	Benzene	No			
8	Ammonia	No			
9	Metals in Particulate Matter, Pb	No			
10	Metals in Particulate Matter, As	No			
11	Metals in Particulate Matter, Ni	No			
12	Particulate Benzo-a-Pyrene (BaP)	No			
(b) Stack Gas / Stationary Source Emission					
1	Particulate Matter	Yes			
2	Sulphur Dioxide	Yes			
3	Carbon Dioxide	No			
4	Carbon Monoxide (NDIR based Method)	No			
5	Temperature	No			
6	Moisture	No			

7	Oxygen	No		
8	Oxides of Nitrogen	Yes		
9	Halides (HCL/HF)	No		
(c) Noise Level				
1	Ambient Noise level measurement (20 to 140 dB)	Yes		
2	Source Noise Level Measurement (Industrial process, DG set- 20 to 140dB)	Yes		
(d) Meteorological Monitoring				
1	Ambient Temperature	No		
2	Wind direction	No		
3	Wind speed	No		
4	Relative Humidity	No		
5	Mixing Height	No		

Specific remarks, if any: For other parameter analysis, the samples will be sent to Zonal and Central Laboratory.


PART II: Details of Laboratory Infrastructure (Instruments and Equipment)

S. No.	Name of Instrument / Equipments	Available Yes / No	If the Instrument / Equipment is not available, Specify Timeline for procurement of this instrument (in months)	Action Taken for procurement of this Instrument / Equipment (Specification finalized / procurement initiated /	Remarks
A. List of Instruments / Equipment for Sampling of Water, Wastewater and Soil / Hazardous Wastes					
a) Mandatory Requirements					
1	Portable / Pen type pH meter / pH strip	Yes			
2	Portable Dissolved Oxygen Meter / Field Fixing using chemicals	Yes			
3	Electrical Conductivity meter pen type	Yes			
4	Flow meter / Physical flow measuring	No			
5	GPS / Mobile with GPS app	No			
6	Ice Box (2 nos.) (150 litre & 100 litre capacities)	No			
7	Thermometer	No			
8	Stainless steel bucket with nylon rope and mug	No			
9	Ground water level measuring device	No			
10	Scoop / shovel	No			
11	Auger / core sampler	No			
b) Optional Requirements					
1	Bottom Sampler / Depth sampler	No			
2	Chloroscope for residual chlorine	No			
3	Vandom or equivalent water sampler (Automatic sampler when composite sampling to be done)	No			
4	Ekman Dredge	No			
B. List of Instruments / Equipment for Sampling of Ambient Air and Source Emission monitoring					
a) Mandatory Requirements					
1	Fine dust samplers PM2.5 (*4 Nos)	Yes			
2	Respirable Dust Sampler PM 10 (*4 Nos)	Yes			
3	High Volume Sampler (SPM) (4 Nos)	No			
4	Handy Sampler with set of glass impingers (*2 Nos)	No			
5	Low Volume Sampler (LVS)	No			
6	Tedler bags different sizes	No			
7	Meteorological tower (All in one telescopic Mast) with sensors comprising wind speed, wind direction, ambient temp., Relative humidity, Solar radiation, rainfall etc.	No			

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8	Nitrogen Cylinder portable	No			
9	Activated Charcoal tubes/ Tenex	No			
10	Barometer (Digital)	No			
11	Isokinetic Stack Monitoring Kit complete with Stack monitoring instrument panel with inclined cum vertical manometer, Cold Box, Vacuum pump, Glass assembly impingers	Yes			
12	Modified S type Stainless steel Pitot tube (Standard length) with Assembly	Yes			
13	Monoblock type, rotary design vacuum pump	Yes			
14	Orsat Apparatus	No			
15	Source emission monitoring Impingers train set with spare impingers 100 ml & 225 ml capacity	Yes			
16	Stainless steel heated Sampling Probes with thimble holders short and long	No			
17	Flue Gas analyzer	No			
18	Thermometer/ Thermocouple	No			
19	Calibrator for Noise Meters	No			
20	Digital Sound level (Noise) Metres	Yes			
21	Portable TOC Analyzer for emission monitoring.	No			
22	Polyurethane Foam PUF Sampler	No			
b) Optional Requirements					
1	Anemometer	Yes			
2	Weather Monitoring system	Yes			
3	Wind speed/wind direction monitor	Yes			
4	Continuous Ambient Air Monitoring System, Fixed	No			
5	Continuous PM10 Analyzer	No			
6	Continuous Ambient Air Monitoring System, Mobile	No			
7	Continuous PM2.5 analyzer	No			
8	Ambient Nitrogen Oxides (NO-NO2-NOx Analyzer	No			
9	Ambient Ozone Analyzer	No			
10	Ambient BTEX Analyzer	No			
11	Multipoint Gas Calibration system	No			
12	Ambient Sulphur Dioxide analyzer	No			
13	Ambient Carbon Monoxide & Carbon dioxide analyzer	No			
14	Total Hydrocarbon analyzer	No			
15	Ambient Ammonia analyzer	No			
16	Zero Gas Generator	No			
17	Synthetic Air Cylinder	No			
18	Calibration Gas Cylinders, SO2, NO, CO, NH3, Benzene and Toluene One each with stainless steel Regulators	No			
19	Continuous emission monitoring equipment	No			
20	19 inch Rack mounting system for air analyzers	No			
21	Dry Gas Meter	No			
22	Diesel Exhaust analyzer	No			
23	Exhaust CO/HC analyzer with Sampling Probe	No			
24	Automated Noise Monitoring System	No			
25	Integrating Sound level meter	No			
26	Continuous PM10& PM2.5 Monitoring Analyzer TEOM system	No			
27	Top loading orifice kit for calibration of HVS	No			

28	Permeation tubes (SO ₂ , NO-NO ₂ -NO _x , NH ₃ , BTX)	No		
C. List of Equipment required for processing of Environmental Samples:				
a) Mandatory Requirements				
1	Accelerated Solvent Extraction (ASE) System	No		
2	Ammonia distillation assembly/TKN Analyzer	No		
3	Analytical Balance 4/5 digit & 6 digit (Digital)	Yes		
4	Aquarium for Toxicity bioassay test with complete accessories (*4 Nos)	No		
5	Autoclave (*2 Nos)	No		
6	Bacteriological Incubators Stainless steel (*2 Nos)	Yes		
7	Bio safety cabinets	No		
8	BOD Incubators (2 nos.)	Yes		
9	Centrifuge	No		
10	COD Digestion heated Blocks (2) with capacity 16 nos. or more	No		
11	Cyanide Distillation Assembly (3)	No		
12	Deep Freezer- Capacity 500 litre	No		
13	Laboratory Ball Mill Grinder	No		
14	Laboratory Grinder	No		
15	Laminar Flow bench for Microbiological analysis	No		
16	Magnetic Stirrer with heating system (*2 Nos)	No		
17	Mechanical Shaker	No		
18	Membrane Filtration assembly with vacuum pump (2 nos.)	No		
19	Microbial culture refrigerator	No		
20	Microwave Digester with 16 vessels/ Hot Plate	No		
21	Muffle Furnace (*1 Nos), Range 1200 C	No		
22	Phenol distillation assembly (3)	No		
23	Plate counter, Manual/Automatic	No		
24	Digestion Chambers/ Fume hood	No		
25	Digital Thermometer & Humidity meter- All lab area	No		
26	Dispensers (Various capacities) up to 5, 10, 25 & 50 ml	No		
27	Filtration Assembly with vacuum pump	No		
28	Fluoride Distillation Assembly (3)	No		
29	Arsenic / Fluoride Glass Distillation assemblies	No		
30	Glass Double Distillation Assembly /Water Purification System	No		
31	Heating mantles (2 nos.)	No		
32	Hot plates (small, Medium and Large) (*2 nos.)	No		
33	Thermo Hygrometer	No		
34	Imhoff Cone	No		
35	Top loading Precision Digital Balance (minimum detection 0.001mg/0.01 mg) with anti-vibration facility- 3 nos. i.e 4/5 Digit (2 nos), - 6 Digit (1 no)	No		
36	Refrigerators Big Size 300 litres or more, double door- 2 nos.	No		
37	Rotary Evaporator (Buchi type) with water recirculating chiller	No		
38	Separating funnel shaker	No		
39	Soxhlet Apparatus	No		
40	Solid Phase Extraction (SPE) /SPME Extraction system	No		
41	Thermometer (Alcohol)	No		
42	Dry & wet bulb Thermometer	No		


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43	Toxicity characteristic leaching procedure (TCLP) Extractors (Zero head and Bottle)	No			
44	Ultra sonic water bath- Capacity 3 litre	No			
45	Water Bath with temperature control (*2 Nos)	No			
46	Water Bath with temp. for mercury sample digestion- 20 BOD Bottles	No			
D. Analytical Instruments at Environmental Laboratories					
a) Mandatory Requirements					
1	Atomic Absorption spectrometer (AAS)- Flame, Hydride & Graphite Tube Atomizer (GTA)	No			
2	Binocular Stereo Zoom Microscope	No			
3	Bomb Calorimeter	No			
4	BTX Analyzer with BTX calibrator	No			
5	Colony counter	No			
6	Conductivity meter- 2 nos.	Yes			
7	Environment conditioning chamber	No			
8	Digital Burettes- 50 ml*2, 100 ml*2	No			
9	Dissolved Oxygen Meter (Bench model)	Yes			
10	Flame Photometer	No			
11	Flash Point Apparatus	No			
12	Gas Chromatograph Mass Spectrometer	No			
13	High Performance Liquid Chromatograph (HPLC)	No			
14	Inductively Coupled Plasma (ICP) Spectrometer-OES	No			
15	Ion Chromatograph Anion & Cations	No			
16	Methane and Non Methane (NMHC) Analyzer	No			
17	Microscope – 100x	No			
18	Microscope Binocular Research	No			
19	CO (NDIR based) Analyzer	No			
20	Nephelometer (Turbidity Meter)	No			
21	pH-Meter with combined electrode (3 point)- 2 nos.	Yes			
22	Specific ion Analyzer with ion selective electrodes	No			
23	Spectrophotometer Visible (Portable)	Yes			
24	TKN Analyzer semi-automatic with aluminum block digester	No			
25	UV-Vis Spectrophotometer	No			
26	Moisture Content Analyzer	No			
b) Optional Requirements					
1	Automatic Titration Assembly	No			
2	Carbon, Hydrogen, Nitrogen and Sulphur (CHNS) Elemental Analyzer	No			
3	EDXRF Analyzer/WDXRF Analyzer	No			
4	Fourier-transform infrared Spectrometer (FTIR)	No			
5	Flocculator (Jar testing apparatus)	No			
6	Toxic Gas Analyzer	No			
7	Organic Halogen (AOX/TOX) Analyzer	No			
8	TOC Analyzer	No			
9	High Resolution Mass Spectrometer (HRGC-HRMS)	No			
10	Inductively Coupled Plasma Mass (ICP-MS) Spectrometer	No			
11	X Ray Fluorescence (XRF) Spectrometer (Portable)	No			

Specific remarks, if any: For other parameter analysis, the samples will be sent to Zonal and Central Laboratory.

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Note: It is requested to please ensure that each sheet is created separately for each laboratory and rename the sheet accordingly. For e.g. Central Laboratory, Regional Laboratory etc

LABORATORY ANALYTICAL FACILITIES

Name of the Board / Committee: Telangana Pollution Control Board, Regional Laboratory, Kothagudem

PART I: Facility available for monitoring of environmental parameters:

S. No.	Parameters	Facilities Available (Yes / No)	If facility is not available, Specify Timeline for addition of this parameter. (in months)	Action Taken for addition of this parameter (Specification finalized / procurement initiated / work awarded / outsourced)	Remarks
A. Sample Matrix / Group of Water and Wastewater					
(a) Physical Tests					
1	Temperature	Yes			
2	Colour	No			
3	pH	Yes			
4	Turbidity	No			
5	Conductivity	Yes			
6	Total Solids	Yes			
7	Total Dissolved Solids (TDS)	Yes			
8	Total Suspended Solids (TSS)	Yes			
(b) Inorganic Tests					
(i) General & Non-metallic					
1	Alkalinity	No			
2	Chloride	No			
3	Cyanide	No			
4	Dissolved oxygen	No			
5	Nitrite nitrogen	No			
6	Nitrate nitrogen	No			
7	Ammonical nitrogen	No			
8	Fluoride	No			
9	Hardness (Total)	No			
10	Calcium	No			
11	Magnesium	No			
12	Phosphate	No			
13	Sulphate	No			
14	Sulphide	No			
15	Total Residual chlorine (TRC)	No			
(ii) Trace Metals Tests					
1	Aluminium (Al)	No			
2	Arsenic (As) Total	No			
3	Barium	No			
4	Boron	No			
5	Chromium (Cr) Hexavalent	No			
6	Chromium (Cr) Total	No			
7	Cadmium (Cd)	No			
8	Cobalt (Co)	No			
9	Copper (Cu)	No			
10	Iron (Fe)	No			
11	Lead (Pb)	No			
12	Manganese (Mn)	No			
13	Mercury (Hg)	No			
14	Nickel (Ni)	No			
15	Potassium (K)	No			
16	Sodium (Na)	No			
17	Vanadium (V)	No			
18	Zinc (Zn)	No			
19	Selenium (Se)	No			
(c) Organics (General) and Trace Organics Tests					
1	Biological Oxygen Demand (BOD)	No			
2	Chemical oxygen demand (COD)	No			
3	Oil & Grease	No			
4	Phenolic Compounds as C ₆ H ₅ OH	No			
5	Benzopyrene	No			

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(FAC)

6	Pesticides		
6.a	Organochlorine Pesticides (OCPs) Tests		
i	Aldrin	No	
ii	Alpha Endosulphan	No	
iii	p,p'-DDT	No	
iv	Alpha-HCH	No	
v	Beta HCH	No	
vi	Beta Endosulphan	No	
vii	Gama-HCH	No	
viii	o,p'-DDT	No	
ix	p,p'-DDE	No	
6.b	Organophosphorus Pesticides (OPPs) Tests		
i	Malathion	No	
ii	Methyl parathion	No	
iii	Chlorpyrifos	No	
iv	Dimethoate	No	
v	Dieldrin	No	
vi	Ethion	No	
(d)	Microbiological Tests		
1	Total Coliform	No	
2	Faecal Coliform	No	
3	E. Coli	No	
4	Faecal Streptococci	No	
(e)	Toxicological Tests		
1	Bioassay method for evaluation of toxicity using fish (90% survival of fish after 96 hrs in 100% effluent)	No	
B. Sample Matrix / Group of Solid / Solid Waste			
(a) Soil / Sediment / Compost Tests			
1	Cation Exchange Capacity (CEC)	No	
2	Electrical Conductivity (EC)	No	
3	Organic carbon (Chemical Method)	No	
4	pH	No	
5	Soil moisture	No	
6	Total nitrogen	No	
7	Metals by digestion (As, Cd, Cr, Pb, Ni etc.)	No	
(b) Hazardous Waste (Liquid / Slurry / Sludge / Solid / Semi-Solid) Tests			
1	Corrosivity	No	
2	Ignitability (Flash Point)	No	
3	Loss on Drying at 1050C (% Moisture Content)	No	
4	Loss on Drying at 5500C (% Organic Content)	No	
5	pH	No	
6	Organic carbon/matter (Chemical Method)	No	
7	Calorific Value	No	
8	Toxicity Characteristics leaching procedure (TCLP) Leachate and Metals in Leachate (As,Cd,Cr, Pb, Ni)	No	
C. Sample Matrix / Group of Analytes: Air			
(a) Ambient Air			
1	Nitrogen dioxide as NO2	Yes	
2	Sulphur dioxide (SO2)	Yes	
3	Particulate matter (PM10)	Yes	
4	Particulate matter (PM2.5)	Yes	
5	Carbon Monoxide	No	
6	Ozone	No	
7	Benzene	No	
8	Ammonia	No	
9	Metals in Particulate Matter, Pb	No	
10	Metals in Particulate Matter, As	No	
11	Metals in Particulate Matter, Ni	No	
12	Particulate Benzo-a-Pyrene (BaP)	No	
(b) Stack Gas / Stationary Source Emission			
1	Particulate Matter	Yes	
2	Sulphur Dioxide	Yes	
3	Carbon Dioxide	No	
4	Carbon Monoxide (NDIR based Method)	No	
5	Temperature	No	
6	Moisture	No	

7	Oxygen	No			
8	Oxides of Nitrogen	Yes			
9	Halides (HCL/HF)	No			
(c) Noise Level					
1	Ambient Noise level measurement (20 to 140 dB)	Yes			
2	Source Noise Level Measurement (Industrial process, DG set- 20 to 140dB)	Yes			
(d) Meteorological Monitoring					
1	Ambient Temperature	No			
2	Wind direction	No			
3	Wind speed	No			
4	Relative Humidity	No			
5	Mixing Height	No			

Specific remarks, if any: For other parameter analysis, the samples will be sent to Zonal and Central Laboratory

PART II: Details of Laboratory Infrastructure (Instruments and Equipment)

S. No.	Name of Instrument / Equipments	Available Yes / No	If the Instrument / Equipment is not available, Specify Timeline for procurement of this instrument (in months)	Action Taken for procurement of this Instrument / Equipment (Specification finalized / procurement initiated / work awarded / outsourced)	Remarks
A. List of Instruments / Equipment for Sampling of Water, Wastewater and Soil / Hazardous Wastes					
a) Mandatory Requirements					
1	Portable / Pen type pH meter / pH strip	Yes			
2	Portable Dissolved Oxygen Meter / Field Fixing using chemicals	Yes			
3	Electrical Conductivity meter pen type	Yes			
4	Flow meter / Physical flow measuring	No			
5	GPS / Mobile with GPS app	No			
6	Ice Box (2 nos.) (150 litre & 100 litre capacities)	No			
7	Thermometer	No			
8	Stainless steel bucket with nylon rope and mug	No			
9	Ground water level measuring device	No			
10	Scoop / shovel	No			
11	Auger / core sampler	No			
b) Optional Requirements					
1	Bottom Sampler / Depth sampler	No			
2	Chloroscope for residual chlorine	No			
3	Vandorn or equivalent water sampler (Automatic sampler when composite sampling to be done)	No			
4	Ekman Dredge	No			
B. List of Instruments / Equipment for Sampling of Ambient Air and Source Emission monitoring					
a) Mandatory Requirements					
1	Fine dust samplers PM2.5 (*4 Nos)	Yes			
2	Respirable Dust Sampler PM 10 (*4 Nos)	Yes			
3	High Volume Sampler (SPM) (4 Nos)	No			
4	Handy Sampler with set of glass impingers (*2 Nos)	No			
5	Low Volume Sampler (LVS)	No			
6	Tedler bags different sizes	No			
7	Meteorological tower (All in one telescopic Mast) with sensors comprising wind speed, wind direction, ambient temp., Relative humidity, Solar radiation, rainfall etc.	No			
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8	Nitrogen Cylinder portable	No			
9	Activated Charcoal tubes/ Tenex	No			
10	Barometer (Digital)	No			
11	Isokinetic Stack Monitoring Kit complete with Stack monitoring instrument panel with inclined cum vertical manometer, Cold Box, Vacuum pump, Glass assembly impingers	Yes			
12	Modified S type Stainless steel Pitot tube (Standard length) with Assembly	Yes			
13	Monoblock type, rotary design vacuum pump	Yes			
14	Orsat Apparatus	No			
15	Source emission monitoring Impingers train set with spare impingers 100 ml & 225 ml capacity	Yes			
16	Stainless steel heated Sampling Probes with thimble holders short and long	No			
17	Flue Gas analyzer	No			
18	Thermometer/ Thermocouple	No			
19	Calibrator for Noise Meters	No			
20	Digital Sound level (Noise) Metres	Yes			
21	Portable TOC Analyzer for emission monitoring.	No			
22	Polyurethane Foam PUF Sampler	No			
b) Optional Requirements					
1	Anemometer	Yes			
2	Weather Monitoring system	Yes			
3	Wind speed/wind direction monitor	Yes			
4	Continuous Ambient Air Monitoring System, Fixed	No			
5	Continuous PM10 Analyzer	No			
6	Continuous Ambient Air Monitoring System, Mobile	No			
7	Continuous PM2.5 analyzer	No			
8	Ambient Nitrogen Oxides (NO-NO2-NOx Analyzer	No			
9	Ambient Ozone Analyzer	No			
10	Ambient BTEX Analyzer	No			
11	Multipoint Gas Calibration system	No			
12	Ambient Sulphur Dioxide analyzer	No			
13	Ambient Carbon Monoxide & Carbon dioxide analyzer	No			
14	Total Hydrocarbon analyzer	No			
15	Ambient Ammonia analyzer	No			
16	Zero Gas Generator	No			
17	Synthetic Air Cylinder	No			
18	Calibration Gas Cylinders, SO2, NO, CO, NH3B, benzene and Toluene One each with stainless steel Regulators	No			
19	Continuous emission monitoring equipment	No			
20	19 inch Rack mounting system for air analyzers	No			
21	Dry Gas Meter	No			
22	Diesel Exhaust analyzer	No			
23	Exhaust CO/HC analyzer with Sampling Probe	No			
24	Automated Noise Monitoring System	No			
25	Integrating Sound level meter	No			
26	Continuous PM10& PM2.5 Monitoring Analyzer TEOM system	No			
27	Top loading orifice kit for calibration of HVS	No			

28	Permeation tubes (SO ₂ , NO-NO ₂ -NO _x , NH ₃ , BTX)	No			
C. List of Equipment required for processing of Environmental Samples:					
a) Mandatory Requirements					
1	Accelerated Solvent Extraction (ASE) System	No			
2	Ammonia distillation assembly/TKN Analyzer	No			
3	Analytical Balance 4/5 digit & 6 digit (Digital)	Yes			
4	Aquarium for Toxicity bioassay test with complete accessories (*4 Nos)	No			
5	Autoclave (*2 Nos)	No			
6	Bacteriological Incubators Stainless steel (*2 Nos)	Yes			
7	Bio safety cabinets	No			
8	BOD Incubators (2 nos.)	Yes			
9	Centrifuge	No			
10	COD Digestion heated Blocks (2) with capacity 16 nos. or more	No			
11	Cyanide Distillation Assembly (3)	No			
12	Deep Freezer- Capacity 500 litre	No			
13	Laboratory Ball Mill Grinder	No			
14	Laboratory Grinder	No			
15	Laminar Flow bench for Microbiological analysis	No			
16	Magnetic Stirrer with heating system (*2 Nos)	No			
17	Mechanical Shaker	No			
18	Membrane Filtration assembly with vacuum pump (2 nos.)	No			
19	Microbial culture refrigerator	No			
20	Microwave Digester with 16 vessels/ Hot Plate	No			
21	Muffle Furnace (*1 Nos), Range 1200 C	No			
22	Phenol distillation assembly (3)	No			
23	Plate counter, Manual/Automatic	No			
24	Digestion Chambers/ Fume hood	No			
25	Digital Thermometer & Humidity meter- All lab area	No			
26	Dispensers (Various capacities) up to 5, 10, 25 & 50 ml	No			
27	Filtration Assembly with vacuum pump	No			
28	Fluoride Distillation Assembly (3)	No			
29	Arsenic / Fluoride Glass Distillation assemblies	No			
30	Glass Double Distillation Assembly /Water Purification System	No			
31	Heating mantles (2 nos.)	No			
32	Hot plates (small, Medium and Large) (*2 nos.)	No			
33	Thermo Hygrometer	No			
34	Imhoff Cone	No			
35	Top loading Precision Digital Balance (minimum detection 0.001mg/0.01 mg) with anti-vibration facility- 3 nos. i.e 4/5 Digit (2 nos), - 6 Digit (1 no)	No			
36	Refrigerators Big Size 300 litres or more, double door- 2 nos.	No			
37	Rotary Evaporator (Buchi type) with water recirculating chiller	No			
38	Separating funnel shaker	No			
39	Soxhlet Apparatus	No			
40	Solid Phase Extraction (SPE) /SPME Extraction system	No			
41	Thermometer (Alcohol)	No			
42	Dry & wet bulb Thermometer	No			

S. V. S. R. J. (FAC)

JOINT CHIEF ENVIRONMENTAL SCIENTIST
CENTRAL LABORATORY
TELANGANA POLLUTION CONTROL BOARD
Paryavarana Bhavan, A-3, I.E., Sanath Nagar,
Hyderabad-500 018

43	Toxicity characteristic leaching procedure (TCLP) Extractors (Zero head and Bottle)	No			
44	Ultra sonic water bath- Capacity 3 litre	No			
45	Water Bath with temperature control (*2 Nos)	No			
46	Water Bath with temp. for mercury sample digestion- 20 BOD Bottles	No			
D. Analytical Instruments at Environmental Laboratories					
a) Mandatory Requirements					
1	Atomic Absorption spectrometer (AAS)- Flame, Hydride & Graphite Tube Atomizer (GTA)	No			
2	Binocular Stereo Zoom Microscope	No			
3	Bomb Calorimeter	No			
4	BTX Analyzer with BTX calibrator	No			
5	Colony counter	No			
6	Conductivity meter- 2 nos.	Yes			
7	Environment conditioning chamber	No			
8	Digital Burettes- 50 ml*2, 100 ml*2	No			
9	Dissolved Oxygen Meter (Bench model)	Yes			
10	Flame Photometer	No			
11	Flash Point Apparatus	No			
12	Gas Chromatograph Mass Spectrometer	No			
13	High Performance Liquid Chromatograph (HPLC)	No			
14	Inductively Coupled Plasma (ICP) Spectrometer-OES	No			
15	Ion Chromatograph Anion & Cations	No			
16	Methane and Non Methane (NMHC) Analyzer	No			
17	Microscope – 100x	No			
18	Microscope Binocular Research	No			
19	CO (NDIR based) Analyzer	No			
20	Nephelometer (Turbidity Meter)	No			
21	pH-Meter with combined electrode (3 point)- 2 nos.	Yes			
22	Specific ion Analyzer with ion selective electrodes	No			
23	Spectrophotometer Visible (Portable)	Yes			
24	TKN Analyzer semi-automatic with aluminum block digester	No			
25	UV-Vis Spectrophotometer	No			
26	Moisture Content Analyzer	No			
b) Optional Requirements					
1	Automatic Titration Assembly	No			
2	Carbon, Hydrogen, Nitrogen and Sulphur (CHNS) Elemental Analyzer	No			
3	EDXRF Analyzer/WDXRF Analyzer	No			
4	Fourier-transform infrared Spectrometer (FTIR)	No			
5	Flocculator (Jar testing apparatus)	No			
6	Toxic Gas Analyzer	No			
7	Organic Halogen (AOX/TOX) Analyzer	No			
8	TOC Analyzer	No			
9	High Resolution Mass Spectrometer (HRGC-HRMS)	No			
10	Inductively Coupled Plasma Mass (ICP-MS) Spectrometer	No			
11	X Ray Fluorescence (XRF) Spectrometer (Portable)	No			

Specific remarks, if any: For other parameter analysis, the samples will be sent to Zonal and Central Laboratory

S. Viswanath

JOINT CHIEF ENVIRONMENTAL SCIENTIST (FAD)
CENTRAL LABORATORY
TELANGANA POLLUTION CONTROL BOARD
Paryavarana Bhavan, A-3, I.E., Sanath Nagar,
Hyderabad-500022

-True Copy-

Annexure - II

Item No. 27

Court No. 1

**BEFORE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

Original Application No. 693/2023
(I.A. No. 512/2024)

News Item titled "Pollution Control Boards are the weak link" appearing in Deccan Herald dated 24.10.2023.

Date of hearing: 14.10.2025

**CORAM: HON'BLE MR. JUSTICE PRAKASH SHRIVASTAVA, CHAIRPERSON
HON'BLE DR. A. SENTHIL VEL, EXPERT MEMBER**

Respondents: Ms. Srishti Govil, Adv. for MoEF & CC (Through VC)
Ms. Kshitij Singh, proxy counsel for Mr. Amit Singh Chauhan, Adv. for CPCB
Mr. Bhanwar Pal Singh Jadon, Ms. Gargi Chaturvedi, Ms. Anjali Sharma, Mr. Shivansh Sharma & Ms. Disha Tiwari, Advs. for the State of UP
Mr. Vikas Saini, Adv. for the State of Punjab
Ms. Madhumita Bhattacharjee, Adv. for the State of West Bengal (Through VC)
Mr. Rahul Khurana, Adv. for the State of Haryana & HSPCB
Mr. Shubham Bhalla, Adv. for R - 30 & 36 (Through VC)
Ms. Jyoti Mendiratta & Ms. Ananya Basudha, Advs. for Govt. of NCT of Delhi
Mr. Kaushal Gautam, AAG for the State of Uttarakhand (Through VC)
Mr. Gigi. C. George, Adv. for Andaman & Nicobar Islands & Lakshwdeep Islands
Mr. Jogy Scaria, Adv. for KSPCB (Through VC)
Mr. Nishe Rajen Shonker, Adv. for the State of Kerala (Through VC)
Mr. A.V. Nair, Adv. for Gujarat PCB (Through VC)
Mr. Vaibhav Srivastava, Adv. for State of HP (Through VC)
Mr. Dhananjay Bajjal & Mr. Tilak Singh, Advs. for Telangana SPCB
Mr. Pukhrambam Ramesh Kumar, Adv. for the State of Manipur (Through VC)
Mr. Raj Kumar, Adv. for LPCC (Through VC)
Mr. Raghav Sharma, Adv. for MP PCB (Through VC)
Mr. Mukesh Verma & Ms. Vatsala Tripathi, Advs. for UKPCB & MPCB (Through VC)
Mr. Pradeep Misra & Mr. Daleep Dhyani, Advs. for UPPCB (Through VC)
Mr. Gautam Singh, Adv. for UT of J&K
Mr. Gautam Singh, Adv. for Andhra Pradesh
Mr. Arnab Roy, Adv. for Tripura SPCB (Through VC)
Mr. TVS Raghavendra Sreyas, Adv. for AP PCB (Through VC)
Mr. Avijit Mani Tripathi, Adv. for the State of Meghalaya (Through VC)

ORDER

1. Letter has been circulated by the Counsel for the Central Pollution Control Board (CPCB) seeking adjournment on the ground of personal difficulty.

2. In this Original Application, the Tribunal is considering the issue of infrastructure, resources and capacity of the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) so that they can effectively perform the functions assigned to them.

3. This matter has been taken up in the background of the factual position showing inadequate sanctioned strength of personnels in the PCBs, high number of vacancies specially in technical positions, absence of proper training and lack of monitoring including absence of equipments and effective lab with them.

4. Some of the PCBs of the States /PCCs of the Union Territories have filed their replies. It has been pointed out that in respect of States of Haryana, Punjab, Uttar Pradesh and Rajasthan, the timeline to fill up the vacancies has been extended by the Hon'ble Supreme Court by order dated 17.09.2025 passed in suo-motu contempt petition (*Civil No. 01/2025*). It has further been pointed out that in terms of the extended timelines, these States have further time to fill up the promotional and direct recruitment posts. So far as the State of West Bengal is concerned, Learned Counsel appearing for the State submits that she could not file the status report on account of on-going *Puja* festivals. Chief Secretary, Sikkim is appearing virtually has appraised that all the posts have been filled up. So far as State of Puducherry, it has been pointed out that out of three posts, two were earlier filled up with promotion and now they have been again fallen vacant and a fresh process has been initiated.

5. All the PCBs of the States/PCCs of UTs are directed to file the status report in terms of the earlier direction and furnish an advance copy thereof to the Counsel for the CPCB, if not already submitted, who will compile the

information in the tabulated form and place it before the Tribunal at least one week before the next date of hearing.

6. List on 08.01.2026.

Prakash Shrivastava, CP

Dr. A. Senthil Vel, EM

October 14, 2025
Original Application No. 693/2023
(I.A. No. 512/2024)
R

Item No. 22-23

Court No. 1

**BEFORE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

Original Application No. 693/2023
(I.A. No. 512/2024)

News Item titled "Pollution Control Boards are the weak link" appearing in Deccan Herald dated 24.10.2023.

With

Original Application No. 562/2023
(IA No. 716/2023)

Varun Gulati

Applicant

Versus

MoEF & CC & Ors.

Respondent(s)

Date of hearing: 08.01.2026

**CORAM: HON'BLE MR. JUSTICE PRAKASH SHRIVASTAVA, CHAIRPERSON
HON'BLE DR. A. SENTHIL VEL, EXPERT MEMBER**

Respondents: Ms. Srishti Govil, Adv. for MoEF & CC (Through VC)
Mr. Amit Singh Chauhan & Ms. Shikha Chauhan, Advs. for CPCB
Mr. Bhanwar Pal Singh Jadon, Ms. Gargi Chaturvedi & Ms. Anjali Sharma, Advs. for the State of UP
Mr. Vikas Saini, Adv. for the State of Punjab, PPCB (Through VC)
Ms. Madhumita Bhattacharjee, Adv. for the State of West Bengal
Mr. Rahul Khurana, Adv. for the State of Haryana & HSPCB
Mr. Shubham Bhalla, Adv. for R - 30 & 36 (Through VC)
Ms. Jyoti Mendiratta & Ms. Ananya Basudha, Advs. for Govt. of NCT of Delhi
Mr. Kaushal Gautam, AAG for the State of Uttarakhand (Through VC)
Mr. Gigi. C. George, Adv. for Andaman & Nicobar Islands & Lakshwdeep Islands
Mr. Jogy Scaria, Adv. for KSPCB (Through VC)
Mr. A.V. Nair, Adv. for Gujarat PCB (Through VC)
Mr. Vaibhav Srivastava, AAG with Mr. Ashish Joshi, Adv. for HP SPCB
Mr. Dhananjay Baijal & Mr. Tilak Singh, Advs. for Telangana SPCB
Mr. Pukhrambam Ramesh Kumar, Adv. for the State of Manipur
Mr. Raj Kumar, Ms. Vidushi Sah, Mr. Sumit Chaudhary, Mr. Ankit Chaudhary, Ms. Neetu Singh & Ms. Vandana Sachdeva, Advs. for LPCC
Mr. Raghav Sharma, Adv. for MP PCB (Through VC)
Mr. Mukesh Verma & Ms. Vatsala Tripathi, Advs. for UKPCB & MPCB (Through VC)
Mr. Pradeep Misra & Mr. Daleep Dhyani, Advs. for UPPCB (Through VC)
Mr. Arnab Roy, Adv. for Tripura SPCB (Through VC)
Mr. TVS Raghavendra Sreyas, Adv. for AP PCB
Ms. Purnima Krishna, Adv. for Tamil Nadu PCB
Mr. Shuvodeep Roy, Adv. for the State of Tripura
Ms. K. Enatoli Sema, Adv. for Meghalaya PCB & Nagaland PCB (Through VC)
Mr. Sameer Abhyankar, Adv. for R - 22 (Through VC)
Mr. Avijit Roy, Adv. for Assam PCB (Through VC)
Ms. Priyanka Swami, Adv. for Nagar Palika Parishad, Loni in OA 562/2023

ORDER

1. Learned Counsel for the State of UP submits that the report has been filed yesterday.
2. Learned Counsel for the CPCB also submits that the report along with tabulated information, has been filed yesterday, but the same has not come on record. He has further submitted that a meeting with all the SPCBs and PCCs was held on 04.11.2025, and a format was supplied to them and for furnishing the information in that format. He submits that the information in requisite format is still awaited from some of the SPCBs and PCCs.
3. All the SPCBs and PCCs are directed respond to the CPCB and furnish the information requisite within four weeks.
4. List on 10.04.2026.

Prakash Shrivastava, CP

Dr. A. Senthil Vel, EM

January 08, 2026
O.A. No. 693/2023 and
O.A. No. 562/2023
HB



58

Tilak Singh <tilak@dbaijallaw.in>

Advance Service of Affidavit filing on behalf the Telangana Pollution Control Board in O.A. No. 693 of 2023: News Item titled "Pollution Control Boards are the weak link" appearing in Deccan Herald dated 24.10.2023

1 message

Tilak Singh <tilak@dbaijallaw.in>

1 April 2026 at 15:31

To: urnimakrishna10@gmail.com, lawchambers@sgovil.com, arschauhan.co@gmail.com, amit_chauhan001@hotmail.com, secy-moef@nic.in, cb.cpcb@nic.in, membersecretarygpcb@gmail.com, ms-gpcb@gujarat.gov.in, ms@kspcb.gov.in, msdpcc@nic.in, net.wbpcbwb@bangla.gov.in, ms@mpcb.gov.in, mspcb-hp@nic.in, ms@uppcb.in, Pradeep Misra <pradeepmisra@yahoo.com>, ram73a@gmail.com, semasingh.office@gmail.com

Cc: Dhananjay Baijal <dhananjay@dbaijallaw.in>, Dhananjay Baijal <D.baijal89@gmail.com>

Dear Sir,/Madam

Please Find attached scanned copy of Affidavit filed on behalf of the Telangana Pollution Control Board. which is being served in advance copy as proof of service.

--

Regards,

--

Tilak Singh

Advocate

Chamber of Mr. Dhananjay Baijal, AoR

+917982588954

2/20 B Jangpura A,

Lower Gr. Floor,

New Delhi - 110014

**Affidavit on behalf of the Telangana PCB.pdf**

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