

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

IN THE MATTER OF:

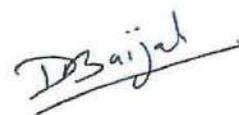
In re: News Item titled "Pollution Control Boards are the Weak Link" appearing in Deccan Herald dated 24.10.2023.

N.D.o.H. 08.01.2026

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Filed by:



Mr Dhananjay Baijal

Advocate for Respondent

(Telangana Pollution Control Board)

2/20B, LGF, Jangpura-A,

New Delhi-110014

Mobile No. 9958667540

Email: d.baijal89@gmail.com

Dated: 10.12.2025

Place: New Delhi

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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 ORDER DATED 28/01/2025 AND 14/10/2025 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 order dated 12/04/2024 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 before CPCB. Accordingly, the TGPCB has filed the affidavit before your good office on 05.07.2024.

Subsequently, the Hon'ble NGT, New Delhi has reviewed the matter on 28.01.2025 & 14.10.2025 and directed the CPCB to re-examine the disclosures made by PCBs & PCCs in their reports about the laboratory infrastructure and ascertain the gaps / deficiencies / lack of facility including recognition of Laboratories as NABL and Environment Protection Laboratories and disclose it in the next report.

Subsequently, the CPCB has conducted a Review meeting with State PCBs / PCCs on 04.11.2025 and directed to enter the details on status of vacancy filling, analytical parameters, laboratory infrastructure and equipment and



laboratory recognition in the Google Spreadsheet provided and submit in the form of affidavit, duly incorporating the information mentioned in the review meeting.

In compliance with the directions of the CPCB, the details on status of vacancy filling, analytical parameters, laboratory infrastructure & equipment and laboratory recognition were filled in the Google Spreadsheet 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 5th day of December, 2025.

DEPONENT

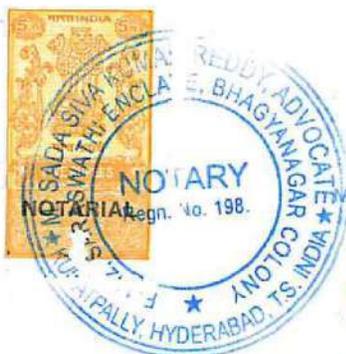
MEMBER SECRETARY
Telangana Pollution Control Board,
Paryavarana Bhavan, A-3,
Industrial Estate, Sanathnagar,
Hyderabad-500 018.

VERIFICATION

Verified on this 5th day of December, 2025 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.

DEPONENT

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



ATTESTED

09 DEC 2025

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,
ukatpally, Hyderabad, TS, India (Ph:98480 44395)

**TELANGANA POLLUTION CONTROL BOARD**

Paryavarana Bhavan, A-III, Industrial Estate, Sanathnagar, Hyderabad
- 500 018. Phone: 040-23887500.

U.O. Note No. 268/TGPCB/Estt/2025- 1046

Date: 02-12-2025

Sub: TGPCB – Estt – Status of filling of Vacant posts in TGPCB in Google Spread Sheets – Information - Submitted- Reg.

Ref: Central Pollution Control Board, New Delhi convened a Video Conference on 04.11.2025 at 3.00 PM with regard to the OA No.693 of 2023.

Vide reference cited, the Central Pollution Control Board, New Delhi convened a Video Conference on 04.11.2025 at 3.00pm with regard to the OA No.693 of 2023, News Item titled "Pollution Control Boards are the weak link" appearing in Deccan Herald dated 24.10.2023 on the status of filling of vacant posts upto 30.11.2025.

In view of the above, the draft information of TGPCB filled in the Google Sheet on status of filling of vacant posts upto 30.11.2025 is furnishing herewith for information and necessary action.

SENIOR ADMINISTRATIVE MANAGER (FAC)

Encl: As above.

To
The Joint Chief Environmental Engineer,
Legal Cell,
Board Office.

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.
				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.</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	19	66	a) Direct	50	<ol style="list-style-type: none"> 1. 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. & 2. The Government of Telangana accorded permission for filling up of Junior Assistant– 05 by way of Direct Recruitment through Telangana Public Service Commission (TGPSC) vide G.O.Ms.No. 146 Finance (HRM.VII) Department, dt. 30.08.2022. 3. 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>Further, the Government of Telangana</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.</p>

					<p>constituted the Committee vide G.O.Ms.No.111, Finance (HRM.VII) Department, dated 08.07.2025 to review Sanction of Posts and Temporary services in various Government Departments and Institutions. The Committee meeting held on 22.07.2025. The Board has submitted the above proposal to the Committee.</p> <p>The Board vide letters dated 30.08.2025 & 03.09.2025 has once again requested the Government for Upgradation of 42 Posts in TGPCB by suppression of Non-Technical Posts.</p> <p>The orders yet to receive from the Government.</p>		
				b) Promotion	15	Senior Accountant – 1 and Senior Assistant – 14.	<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	1	One (01) Senior Administrative Manager post is vacant since August - 2025. This post should be filled by Deputy Collector cadre from Revenue Department through deputation. The EFS&T Department has requested the Revenue Dept., to depute a Deputy Collector for the post of Senior Administrative Manager.	
Total	230	115	115				

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. 24.11.2025.


SENIOR ADMINISTRATIVE MANAGER (FAC)
 Senior Administrative Manager
 Telangana Pollution Control Board,
 Head Office, Sanathnagar,
 Hyderabad - 500 018.



Lr. No. 65/TSPCB/Estt./2025-1011

Date: 24-11-2025

To
The Secretary,
Telangana Public Service Commission,
Prathibha Bhavan, M.J.Road,
Nampally, Hyderabad.

Sub: TGPCB – Estt – Filling up of 41 vacancies in various categories of posts in TGPCB under Direct Recruitment through TGpsc to issue a separate Notification- Requested- Reg.

- Ref:**
1. T/O Letter No.65/TSPCB/Estt./2023-538, dt.23.11.2023.
 2. T/O Letter No.65/TSPCB/Estt./2024-706, dt.03.01.2024.
 3. T/O Letter No.268/TGPCB/Estt./2025-135, dt.28.04.2025.
 4. G.O.Ms.No. 90, Finance (HRM.VII) Department, dt. 07/08/2024.
 5. G.O.Ms.No. 10, SCD (POA.2) Department, Dt: 14.04.2025.
 6. G.O.Ms.No.99, GA (Ser.D) Department, dt. 14.04.2025.
 7. Lr No. 178/RN/2024, dt. 13.05.2025 received from the Secretary, TGpsc, Hyderabad.
 8. T/O Letter No.268/TGPCB/Estt./2025-368, dt.24.06.2025.

With references to the above cited, the Board has requested to issue the Notification to comply with the orders of the Hon'ble Supreme Court and to implement Water & Air Acts in the State with effective functioning of the Board.

The Central Pollution Control Board, New Delhi convened a Video Conference on 04.11.2025 at 3.00PM with regard to the OA No.693 of 2023, News Item titled "Pollution Control Boards are the weak link" appearing in Deccan Herald dated 24.10.2023 on the status of filling of vacant posts and as per the Hon'ble Supreme Court Order dt. 08.05.2025 in WP(C) No. 13029 of 1985 and directed "all the State Pollution Control Boards and Committees to ensure that all the vacancies are filled by the end of September, 2025."

In view of the above, you are requested to issue a separate Notification for Telangana Pollution Control Board at the earliest to implement Water & Air Acts in the State with effective functioning of the Board and to comply with the orders of the Hon'ble Supreme Court, as the Board is functioning with 50% of the sanctioned posts.

Sd/-
CHAIRMAN, TGPCB
Chief Secretary to Govt.,
Govt. of Telangana

// T.C.F.B.O.//


MEMBER SECRETARY


27 NOV 2025

-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	

	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 ✓

S. Venkatesh
JOINT CHIEF ENVIRONMENTAL SCIENTIST (FAO)
CENTRAL LABORATORY
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, 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					
i	Aldrin	Yes			

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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
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

S.V. Srinivasan
 CHIEF ENVIRONMENTAL SCIENTIST (FAI)
 LABORATORY
 BOARD

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
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			
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, NH3B, benzene and Toluene One each with stainless steel Regulators	Yes			
19	Continuous emission monitoring equipment	No			

S. V. Srinivas

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

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
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			

S. Vasanth

14

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
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			
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			
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			

S. 11/20/20

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
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:					

S. V. S. S. S.

JOINT CHIEF ENVIRONMENTAL SCIENTIST (FAO)
 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: 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				
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			

5/5/2018
 JOINT CHIEF ENVIRONMENTAL SCIENTIST (FAC)
 CENTRAL LABORATORY
 TELANGANA POLLUTION CONTROL BOARD
 Parvavara Bhavan, A-3, I.E., Sanath Nagar,

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
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			

S. V. S. S. S.

JOINT CHIEF ENVIRONMENTAL SCIENTIST (FAC)
CENTRAL LABORATORY
POLLUTION CONTROL BOARD
Gandhinagar,

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
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
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	Vandom 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			
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			

S. S. Srinivasulu

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
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			

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
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			
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			

S. V. S. D. S.

JOINT CHIEF ENVIRONMENTAL SCIENTIST (FAC)
CENTRAL LABORATORY
POLLUTION CONTROL BOARD
Sanath Nagar,

(21)

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
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			
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:					

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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: 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 / 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)	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			
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			

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
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)	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			

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
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	6 months		
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 Lab	
2	Ammonia distillation assembly/TKN Analyzer	Yes			
3	Analytical Balance 4/5 digit & 6 digit (Digital)	Yes			

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
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			
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 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	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

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
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 Lab	GC is available
13	High Performance Liquid Chromatograph (HPLC)	No	Not applicable	Specialised parameters are analysed at Central Lab	
14	Inductively Coupled Plasma (ICP) Spectrometer-OES	No	Not applicable	Specialised parameters are analysed at Central Lab	
15	Ion Chromatograph Anion & Cations	No	Not applicable	Specialised parameters are analysed at Central Lab	
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. Vasanth

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

No. 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)	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	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					

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

S. No.	Parameters	Facilities Available (Yes / No)	If facility is not available, Specify Timeline for addition of this parameter. (in months)	addition of this parameter (Specification finalized / procurement initiated / work awarded /	Remarks
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				
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)	No			
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
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					

S. No.	Parameters	Facilities Available (Yes / No)	If facility is not available, Specify Timeline for addition of this parameter. (in months)	addition of this parameter (Specification finalized / procurement initiated / work awarded /	Remarks
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	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	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			
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	No	6 months		
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		

S. No.	Parameters	Facilities Available (Yes / No)	If facility is not available, Specify Timeline for addition of this parameter. (in months)	addition of this parameter (Specification finalized / procurement initiated / work awarded /	Remarks
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
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	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	No			
27	Top loading orifice kit for calibration of HVS	Yes			
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		

S. No.	Parameters	Facilities Available (Yes / No)	If facility is not available, Specify Timeline for addition of this parameter. (in months)	addition of this parameter (Specification finalized / procurement initiated / work awarded /	Remarks
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.)	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		
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			

S. No.	Parameters	Facilities Available (Yes / No)	If facility is not available, Specify Timeline for addition of this parameter. (in months)	addition of this parameter (Specification finalized / procurement initiated / work awarded /	Remarks
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			

S. No.	Parameters	Facilities Available (Yes / No)	If facility is not available, Specify Timeline for addition of this parameter. (in months)	addition of this parameter (Specification finalized / procurement initiated / work awarded /	Remarks
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. V. Somayajulu

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 Hyderabad-500 018.

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PART III: DETAILS OF LABORATORIES ESTABLISHED UNDER THE WATER (P & CP) ACT, 1974																	
Laboratory established by the Board,				Laboratories / Institutes specified by State Govt., as State Water Laboratory as per Section 52 (1) of Water Act (other								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	Time line required for notification of Laboratories given in column No. (3) (in months)	No. of Laboratories		No. of Laboratories (out of		No. of remaining		Time line required for		No. of Board's Laboratories 17 (2)	No. of State Water		No. of Board's Laboratories 17 (2)	No. of State Water	
				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,				Laboratories / Institutes specified by State Govt., as State Air Laboratory as per Section 28 (1) of Air Act (other than								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	Time line required for notification of Laboratories given in column No. (3) (in months)	No. of Laboratories		No. of Laboratories (out of		No. of remaining		Time line required for		No. of Board's Laboratories 17 (2)	No. of State Air		No. of Board's Laboratories 17 (2)	No. of State Air	
				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.																	
1(Central Lab) accredited. Zonal Labs (2 Nos.) are under process *1(Central Lab) recognised. 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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 JOINT CHIEF ENVIRONMENTAL SCIENTIST (FAC)
 CENTRAL LABORATORY
 TELANGANA POLLUTION CONTROL BOARD
 Paryavarana Bhavan, A-3, I.E., Sanath Nagar,
 Hyderabad-500 018.

PART V: DETAILS OF LABORATORIES PARTICIPATED ON ANALYTICAL QUALITY CONTROL AND QUALITY ASSURANCE CONDUCTED BY CPCB IN RESPECT OF WATER QUALITY PARAMETERS																
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:																

PART VI: DETAILS OF LABORATORIES PARTICIPATED ON PROFICIENCY TESTING (PT) PERFORMANCE						
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 exercise	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:						


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Not 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 / work awarded /	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			

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
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			
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	Chlorpyriphos	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			

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

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
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 Laborat

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			

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 TELANGANA POLLUTION CONTROL BOARD
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 Hyderabad-500 018.

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
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			
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			


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 Hyderabad-500 018.

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
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			

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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
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			

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
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			
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			

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
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 Laborat

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 Hyderabad-500 018.

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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, Kothagude

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	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			

JOINT ENVIRONMENTAL SCIENTIST (FA)
CENTRAL LABORATORY
TELANGANA POLLUTION CONTROL BOARD
Parvavara Bhavan, A-3, I.E., Sanath Nagar,

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
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			
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			


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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
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 La

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 /	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			


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 TELANGANA POLLUTION CONTROL BOARD
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 Hyderabad-500 018

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
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			
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			

S/18/0m/12

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- Bhawan, A-3, I.E., Sanath Nagar,

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
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	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			

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
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	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			


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 Hyderabad-500 018.

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
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			
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			

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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
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 La

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Item No.23

Court No. 1

**BEFORE THE 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: 28.01.2025

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

Respondent: Mr. Amit Singh Chauhan, Adv. for CPCB
Ms. Savi Nagpal, AAG for the State of Punjab (Through VC)
Ms. Srishti Govil, Adv. for MoEF & CC
Mr. Harsh Vardhan Singh Rajawat, Ms. Gargi Chaturvedi & Ms. Anjali
Sharma, Advs. for the State of UP
Ms. Madhumita Bhattacharjee, Adv. for the State of WB PCB
Mr. Rahul Khurana, Adv. for the State of Haryana & HSPCB
Mr. Shubham Bhalla & Mr. Alex Noel Dass, Advs. for R - 30
Ms. Jyoti Mendiratta, Adv. for Govt. of NCT of Delhi
Mr. Gigi. C. George, Adv. for Andaman & Nicobar Islands & Lakshwdeep
Islands
Mr. Jogy Scaria, Adv. for KSPCB
Mr. Nishe Rajen Shonker, Adv. for the State of Kerala
Mr. A.V. Nair, Adv. for Gujarat PCB (Through VC)
Mr. Vaibhav Srivastava, Adv. for HPSPCB
Mr. Dhananjay Baijal, Adv. for Telangana SPCB
Mr. Pukhrambam Ramesh Kumar, Ms. Rajkumari Divyasana & Ms.
Anupama Ngangom, Advs. for the State of Manipur
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. Devraj, Adv. for KSPCB (Through VC)
Mr. Avijit Roy, Adv. for Assam PCB (Through VC)
Mr. Pradeep Misra & Mr. Daleep Dhyani, Advs. for UPPCB (Through VC)
Mr. Surendra Kumar, Adv. for Arunachal Pradesh SPCB (Through VC)
Mr. Siddharth Vasudev, Adv. for Andhra Pradesh PCB (Through VC)
Mr. Abhimanyu Garg, Adv. for Puducherry PCC (Through VC)
Mr. Anando Mukherjee, Adv. for Mizoram PCB (Through VC)

ORDER

1. In this original, registered *suo-moto*, Tribunal is considering the
issue of infrastructure, resources capacity and existing staff strength of
State Pollution Control Boards (SPCBs)/Pollution Control
Committees(PCCs).

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2. In terms of the earlier orders, some more responses from SPCBs /PCCs have been received. Information from those responses have been collated in respect of 24 SPCBs/PCCs by Central Pollution Control Board (CPCB) in the following tabulated form:-

“Progress report on filling vacancy by 24 SPCBs/PCCs

S. No.	SPCBs	Posts		Progress/Status	Timeline for filling the vacant posts (Month)
		Sanction	Vacancy		
1.	Andhra Pradesh	291	209	<ul style="list-style-type: none"> 5 vacancies. increased since June, 2024. 39 vacancies have been advertised for filling. 	Not provided
2.	Arunachal Pradesh	27	0	<ul style="list-style-type: none"> All posts are filled. 	-
3.	Assam	265	31	<ul style="list-style-type: none"> 11 vacancies were filled since July, 2024. 7 promotional vacancies are vacant due to no eligible candidates in the feeder cadre 4 promotional vacancies are pending due to backlog against the reserved quota. Proposed restructuring of cadre in the new service rules. 2 new recruits have resigned 	3
4.	Bihar*	127	30	<ul style="list-style-type: none"> Proposal for filling 57 vacancies has forwarded to General Administrative Department, Bihar. 	Not provided.
5.	Chhattisgarh	328	204	<ul style="list-style-type: none"> 73 promotional vacancies 21 posts of chemists and Assistant Engineer are to be advertised by VYAPAM (recruiting agency) Syllabus for 37 posts is under preparation. 73 vacant posts will be advertised. 	No specific timeline is given.
6.	Goa	140	11	<ul style="list-style-type: none"> 05 vacancies (Field Assistant: 02, Environmental Engineer: 01, Junior Laboratory Assistant:02) have been filled since July, 2024. Advertisement for filling of 08 posts have been issued, and the recruitment process of the same is ongoing. 02 post of laboratory attendant and 01 post of MTS became vacant. The process for filling the same will be initiated soon. 	30.04.2025
7.	Gujarat	430	260	<ul style="list-style-type: none"> 144 Assistant Environmental Engineers and 3 Assistant law officers have announced their dates for conducting preliminary exam on 04.01.2025. 	Not provided

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S. No.	SPCBs	Posts		Progress/Status	Timeline for filling the vacant posts (Month)
		Sanction	Vacancy		
				<ul style="list-style-type: none"> A requisition to fill 113 posts of senior scientific assistant has been sent to Gujarat subordinate service selection board. 	
8.	Haryana	450	209	<ul style="list-style-type: none"> 32 vacancies were filled since July, 2024. 36 promotional and deputation posts are vacant; no eligible candidates in the feeder cadre. No applications were received for deputation posts. Some posts have been filled on outsourced/ contractual basis. Amendment in service rules of some posts are under consideration with the Govt. 	Some Posts earmarked for Direct Recruitment and will be filled within 3 to 8 months.
9.	Himachal Pradesh	375	152	<ul style="list-style-type: none"> Requisition was sent to Himachal Pradesh Public Service Commission for filling the 53 class-III grade posts. 47 promotion posts are vacant due to no eligible candidates in the feeder cadre. Continuous follow-ups with the government and commissions have been made to expedite vacancy filling. 	Not provided
10.	Kerala	432	19	<ul style="list-style-type: none"> 12 promotion posts are vacant due to no eligible candidates in the feeder cadre. Appointments will be made through Kerala Public Service Commission. 	3
11.	Madhya Pradesh	1228	785	<ul style="list-style-type: none"> 288 vacancies are to be filled through promotion. Ongoing efforts, including court proceedings, are being made to fill 497 vacant posts. 	Not provided
12.	Meghalaya	153	66	<ul style="list-style-type: none"> 17 promotion posts are vacant due to no eligible candidates in the feeder cadre. Approval of Reservation Roaster is pending. 05 post of Laboratory Assistant were filled by direct recruitment in 2024. Amendment of Service Rules are in progress. 	By April 2025 and on approval of the Service Rules.
13.	Mizoram	14	04	<ul style="list-style-type: none"> The recruitment will be started after the approval of service rules by the State Government. 	Not Provided
14.	Punjab	652	234	<ul style="list-style-type: none"> 26 vacancies were filled since July, 2024. Result declared for 148 posts, and the further process of filling the same is ongoing. 60 posts are promotional quota posts. 	No timeline for final process.
15.	Rajasthan	808	395	<ul style="list-style-type: none"> 93 vacancies were filled since June, 2024. An exam was conducted in October 2024 for 50 Junior Assistant posts. 	Not provided



S. No.	SPCBs	Posts		Progress/Status	Timeline for filling the vacant posts (Month)
		Sanction	Vacancy		
				<ul style="list-style-type: none"> The process of temporarily filling 54 deputation posts of Assistant Environmental Engineer and 46 deputation posts of Scientific Officer with consultants has been initiated. 	
16.	Sikkim	21	11	<ul style="list-style-type: none"> 10 newly created vacancies recruitment is put on hold as administration department unable to allocate funds. 1 existing vacancy 	12 months to fill 1 existing vacancy
17.	Telangana*	230	104	<ul style="list-style-type: none"> Board have accorded permission for filling 46 posts from Govt., Written exam have been conducted for 5 Junior Assistant post. 	Not provided
18.	Tripura	28	6	<ul style="list-style-type: none"> The process of preparation of fresh recruitment rules has been completed and concurrence of state government as per new state government policy is pending. Vacancies have increased from 4 to 6 due to superannuation of employees. 	30.04.2025
19.	Uttar Pradesh	732	339	<ul style="list-style-type: none"> No relevant information have been submitted. 	-
Pollution Control Committee					
1.	Andaman & Nicobar	09	3	<ul style="list-style-type: none"> All efforts have been made to fill the three vacant posts. The post of Environmental Engineer has been advertised to be filled through deputation, but no complete or proper applications have been received. 01 post of Law Officer has been filled through contractual appointment, as the recruitment for the same has been pending with the UPSC. Further, the 01 post of Laboratory Attendant has been abolished due to non-filling within five years of its vacancy. 	Not Provided
2.	Chandigarh	8	0	<ul style="list-style-type: none"> 1 vacant post of Data Entry Operator was abolished and the remaining posts are filled. 	-
3.	Dadra and Nagar Haveli & Daman and Diu	12	10	<ul style="list-style-type: none"> The revival and recreation of the abolished posts is still under process. 	24
4.	Ladakh	16	11	<ul style="list-style-type: none"> Recruitment Rules for non-gazette subordinate posts have been notified. Requisition for filling the posts have been send to Ladakh Subordinate Services Selection Board Proposal have been submitted to Department of Expenditure for creation and sanction of technical and scientific posts. 	Not provided
5.	Puducherry*	12	3	<ul style="list-style-type: none"> Advertisement for the engagement of 01 Environmental Engineer have been issued in leading newspaper. 	3

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S. No.	SPCBs	Posts		Progress/Status	Timeline for filling the vacant posts (Month)
		Sanction	Vacancy		
				<ul style="list-style-type: none"> All necessary measures have been taken to fill the promotional vacancy of 01 Scientist B. Process of reviewing manpower strength has also commenced, and steps to recruit 06 nos. of Technical Consultants and 03 nos. of Scientific Consultants through outsourcing to address manpower shortage has been initiated. 	

• *Vacancy Details taken from earlier submitted affidavit.

3. Above disclosure reveals that large number of posts are still lying vacant in State of Andhra Pradesh, Chhattisgarh, Gujarat, Haryana, Himachal Pradesh, Madhya Pradesh, Meghalaya, Punjab, Rajasthan, Telangana and Uttar Pradesh.

4. Learned Counsel appearing for CPCB has informed that so far as status of State of Nagaland and UT of Lakshadweep is concerned, there are no vacancies existing. However, we find that UT of Daman Diu and Dadra and Nagar Haveli is functioning with two officials with 10 vacancies and the fact is that UT is facing industrial and other pollution related issues.

5. Learned Counsel appearing for State PCBs for different States have taken the plea that requisitions have been sent to the State Public Service Commission/State Public Selection Boards but they have not taken further action for initiating the process. These PCBs are directed to point out the order of the Hon'ble Supreme Court passed in WP (C) No. 13029/1985 dated 27.08.2024 which required the States to fill up all the vacancies by 30.04.2025 to concerned PSC/SSB. It has been pointed out that as many as ten SPCBs/PCCs i.e. the SPCBs of State of Jharkhand, Karnataka, Maharashtra, Manipur, Odisha, Tamil Nadu, Uttarakhand and West Bengal and PCCs of Delhi and Jammu and Kashmir have not submitted

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their response. They are directed to do the needful positively within two weeks.

6. In the report filed by CPCB there is also a compilation of the information relating to the upgradation of the laboratory infrastructure as under:

“Progress report w.r.t up-gradation of Laboratory infrastructure

S. No.	SPCBs/ PCCs	Progress
1.	Andhra Pradesh	<ul style="list-style-type: none"> Proposal has been submitted to the Govt. for notification of laboratories in the official gazette of State.
2.	Arunachal Pradesh	<ul style="list-style-type: none"> Planning for notification of its laboratories as State water laboratory, State Air laboratory and Environment laboratory under EPA, 1986 It is expected to take 18 months to complete the process.
3.	Assam	<ul style="list-style-type: none"> NABL accreditation have been initiated in Silchar, Bongaigaon, Sivasagar and Tezpur Laboratory New laboratories are planned to establish at Nagaon, Tinsukia and Majuli College. Efforts are intended to notify all the existing labs under the State Water and State Air laboratories
4.	Bihar	<ul style="list-style-type: none"> No information submitted.
5.	Chhattisgarh	<ul style="list-style-type: none"> 7 laboratories in 7 regional offices of Raipur, Bhilai, Bilaspur, Jagdalpur, Ambikapur, Korba and Raigarh are planned for recognition under EPA, 1986 in 12 months. In the process of setting-up of new Central laboratory with necessary infrastructure and laboratory equipment like GC-TMS, ICP- MS, UHPLC-MS, IC& UV-VIS spectrophotometer etc. and expected to be completed within 1 year.
6.	Goa	<ul style="list-style-type: none"> 01 Board laboratory has been planned for recognition under the EPA, 1986 in 10 months.
7.	Gujarat	<ul style="list-style-type: none"> No information submitted.
8.	Haryana	<ul style="list-style-type: none"> Procurement of instruments /equipment and installation have been carried out in Central, Regional laboratories, such as Atomic Absorption Spectrometer, Manual Ambient Air Quality Monitoring Station, Mobile CAAQMS van etc.
9.	Himachal Pradesh	<ul style="list-style-type: none"> Upgradation of lab is under process for left out parameters, as per Schedule-I of EP Rules. The accreditation of three (03) laboratories is under pipeline.
10.	Kerala	<ul style="list-style-type: none"> Laboratories are equipped with required infrastructure and equipment.
11.	Madhya Pradesh	<ul style="list-style-type: none"> Efforts have been ensured that the laboratories remain adequately equipped to discharge their statutory responsibilities, and shall undertake such upgradation measures, as are deemed necessary from time to time to maintain their effectiveness and efficiency.
12.	Meghalaya	<ul style="list-style-type: none"> Proposal of recognition of laboratories under EPA has been sent to the concerned authority.
13.	Mizoram	<ul style="list-style-type: none"> The notification of laboratories in the Official Gazette under the Air and Water Acts is in progress and will be completed shortly. The recognition of laboratories under the EPA Act, 1986, will commence upon obtaining NABL accreditation.
14.	Punjab	<ul style="list-style-type: none"> Recognition of laboratories under the EPA Act, 1986 have been initiated. Upgradation of Central and Zonal laboratories has been initiated. Procurement of equipment has been initiated through GeM and E-tender procurement portal of State government.

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S. No.	SPCBs/ PCCs	Progress
15.	Rajasthan	<ul style="list-style-type: none"> 14 laboratories have been notified as State Air laboratory and State Water laboratory. Proposed to obtain EPA Recognition for 5 laboratories (1 Central and 4 Regional laboratory) by November 2026.
16.	Sikkim	<ul style="list-style-type: none"> One (1) laboratory is planned for recognition under the EPA, 1986, and the process will take 12 months.
17.	Telangana	<ul style="list-style-type: none"> No Information submitted.
18.	Tripura	<ul style="list-style-type: none"> Laboratory is equipped with all necessary equipment and instruments for analysis of parameters of Air and water pollutants. In the process of obtaining NABL accreditation by engaging agency through e-Tender for its Laboratories. Procurement of one GC-MS, Ion Chromatograph and Flue Gas Meter is under process.
19.	Uttar Pradesh	<ul style="list-style-type: none"> No relevant information have been submitted.
Pollution Control Committee		
1.	Andaman & Nicobar	<ul style="list-style-type: none"> The procurement of laboratory equipment and renovation for the strengthening of the laboratory has been started, the work is expected to be completed by March 2025. The process for the recognition of the laboratory under the EPA Act will be initiated once the adequate staff has been hired on a contractual basis.
2.	Chandigarh	<ul style="list-style-type: none"> Laboratory is fully developed with required Infrastructure
3.	Dadra and Nagar Haveli & Daman and Diu	<ul style="list-style-type: none"> The necessary infrastructure for the establishment of the environmental laboratory, i.e., furniture, glassware, chemicals and instruments, has been procured. The work order for NABL accreditation services has been issued, and the application for NABL accreditation will be made after the completion of necessary requirements as per ISO 17025:2017.
4.	Ladakh	<ul style="list-style-type: none"> Tender for purchase of additional laboratory equipment have been floated on GEM.
5.	Puducherry	<ul style="list-style-type: none"> Tender for the development of an Integrated Office Building and laboratory has been floated to strengthen effective monitoring of all the notified parameters.

7. Some of the State PCBs have not submitted the information such as Bihar, Gujarat, Telangana.

8. State PCBs/PCCs are directed to file affidavits disclosing the status of the upgradation of the laboratory infrastructure by supplying a copy thereof, to counsel for CPCB.

9. Tabulated information given by CPCB does not disclose the deficiencies that exist in the laboratory infrastructure in different PCBs and PCCs, particularly, disclosing analytical capabilities developed to monitor and analyse notified parameters notified under Schedule I, Rule 3 of EP Rules and Quality Assurance (QA) and Quality Control (OC).

(6)

10. Hence, CPCB is directed to re-examine the disclosures made by PCBs and PCCs in their reports about the laboratory infrastructure and ascertain the gaps/deficiencies/lack of facility including recognition of Laboratories as NABL and Environment Protection Laboratories and disclose it in the next report.

11. In view of the above, States/UTs and PCBs/PCCs who have not filed the reply till now are directed to file it by supplying an advance copy to the CPCB within four weeks and the CPCB is directed to file a fresh report, keeping in view the observations made above and disclosures made by remaining PCBs/PCCs.

12. List on 08.05.2025.

Prakash Shrivastava, CP

Sudhir Agarwal, JM

Dr. A. Senthil Vel, EM

January 28, 2025
Original Application No. 693/2023
(I.A. No.512/2024)
JG..

(62)

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)
Mr. 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 Baijal & 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.

(63)

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



Advance Service of Affidavit filed on behalf of Telangana Pollution Control Board in OA 693/2023: In re: News Item titled 'Pollution Control Boards are the Weak Link' appearing in Deccan Herlad dated 24.10.2023.

1 message

Tilak Singh <tilak@dbajjallaw.in>

10 December 2025 at 16:28

To: Mukesh Verma <mvermadv@gmail.com>, dstpcc-andamans@nic.in, Ramesh Pukhrambam <ramesh1pukhrambam@gmail.com>, bhanwar jadona <bhanwar09jadon@gmail.com>, Abhimanyu Garg <abhimanyu.legal@gmail.com>, chairmanppcb@yahoo.in, "msppcb@gmail.com" <msppcb@gmail.com>, avijitroy.aor@gmail.com, anandomukherjee.law@gmail.com, Gigicgeorge.adv42@yahoo.in, shubhambhalla@hotmail.com, Advocate Raj Kumar <advraj Kumar@gmail.com>, rkhranalegal@gmail.com

Cc: Dhananjay Bajjal <dhananjay@dbajjallaw.in>, Dhananjay Bajjal <D.bajjal89@gmail.com>

Dear Sir/Madam,

Please find attached the Affidavit filed on behalf of the Respondent, the Telangana Pollution Control Board, in the above-captioned matter.

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Regards,

--

Tilak Singh

Advocate

Chamber of Mr. Dhananjay Bajjal, AoR

+917982588954

2/20 B Jangpura A,

Lower Gr. Floor,

New Delhi - 110014

 **TGPCB Affidavit in OA 693 of 2023_compressed.pdf**
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