

**BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI
IA No. 512/2024**

IN

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.

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Filed on: 15.07.2026
New Delhi

Filed by



K. ENATOLI SEMA
Advocate for Respondent
310, lawyer's Chamber
C.K. Daphtary block
Supreme Court of India Tilak lane
New Delhi-110001
Mob.9818139636
Enrollment No D-1931-a/2005
Email-enatoli@gmail.com

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

IA No. 512/2024

IN

ORIGINAL APPLICATION NO. 693/2023

IN THE MATTER OF:-

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

**ADDITIONAL AFFIDAVIT FILING VACANCY STATUS AND
LABORATORY PARAMETRES & DETAILS ON BEHALF OF
MEGHALAYA POLLUTION CONTROL BOARD (MSPCB) IN
COMPLIANCE WITH ORDER DATED 10.04.2026.**

I, **Dr. George Hagi Chyrmang**, MFS, s/o (L) D. Kyndiah, aged about 45 years, having office at Lumpyngngad, Shillong, Meghalaya, 793014, do hereby solemnly affirm and declare as under :-

1. That I am presently posted as the Member Secretary of the Meghalaya State Pollution Control Board (MSPCB), and as such in my official capacity, I am well conversant with the facts and records of the case and hence competent and authorized to swear this affidavit on behalf of MSPCB, hereinafter referred to as the 'Board'.

MEMBER SECRETARY
Meghalaya State Pollution Control Board
Shillong



SL / Instrument No 59
Date 14-07-2024

2. That the Board is filing the present affidavit in compliance with the order dated 10.04.2026 passed by this Hon'ble Tribunal, wherein, inter alia, this Hon'ble Tribunal has observed and directed as under:

"6. A perusal of the above tables reveal that the PCBs and PCCs do not have the requisite facilities and in almost all the PCBs/PCCs the gaps are existing. Hence, we require each of the PCBs/PCCs to respond to the above disclosure of the CPCB and point out the reason for not having the optimum prescribed facilities. Let the response affidavit be filed within four weeks. The Applicant also seeks four weeks' time to file the objection to the report of the CPCB."

3. The Board accordingly submits its response to the disclosures concerning the Meghalaya State Pollution Control Board as reflected in the report of the Central Pollution Control Board (CPCB).

RE: VACANCY POSITION

4. That, as per the CPCB report recorded by this Hon'ble Tribunal, the total sanctioned strength of the Board is 155, against which 99 posts were filled and 56 posts were vacant as on 01.04.2026. It is submitted that, as per the present position of the Board, the total sanctioned strength is 155, against which the present working strength is 98 and 57 posts are vacant.

Meghalaya State Pollution Control Board
Shillong
MEMBER SECRETARY



5. That, in this regard, it is submitted that the Board has initiated steps for filling up vacant posts. The Board has proposed a recruitment drive for filling up 23 vacant posts and the proposal for approval of the breakup of vacancies was forwarded to the State Government vide Letter No. MPCB/GEN-368/2022/41 dated 18.08.2025.

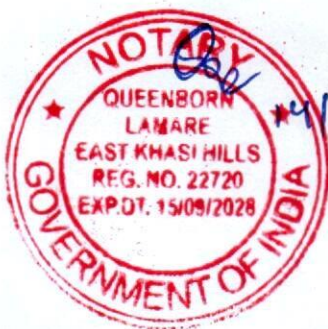
(A copy of the communication dated 18.08.2025 is marked and annexed hereto as Annexure R/1.)

6. That the matter is presently under consideration of the Government and various clarifications, views and comments are being communicated with the Personnel & Administrative Reforms (B) Department through the Administrative Department. The latest communication in this regard was issued vide Letter No. MPCB/GEN-368/2022/47 dated 10.04.2026. The reply/approval of the Government in this regard is still awaited.

(A copy of the communication dated 10.04.2026 is marked and annexed hereto as Annexure R/2.)

7. That it is further submitted that the Board felt the need to amend the Meghalaya State Pollution Control Board Service Regulation, 2019 and, accordingly, a proposal for amendment was forwarded to the

MEMBER SECRETARY
Meghalaya State Pollution Control Board
Shillong



State Government vide Letter No. MPCB/GEN-23/PT-A/2024-2025/96 dated 04.07.2025.

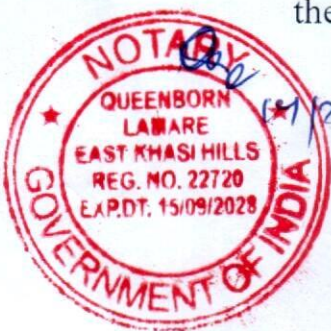
(A copy of the communication dated 04.07.2025 is marked and annexed hereto as Annexure R/3.)

8. That thereafter, the Draft Notification for amendment of the Service Regulation was prepared and submitted to the State Government vide Letter No. MPCB/GEN-23/PT-A/2025-2026/121 dated 25.02.2026 for approval. Further communication/approval from the Government is awaited.

(A copy of the communication dated 25.02.2026 is marked and annexed hereto as Annexure R/4.)

9. That, insofar as the filling up of vacant posts by promotion is concerned, the Board, in terms of the provisions of the Service Regulation, 2019, has constituted two Assessment-cum-Selection Committees, namely, one for promotion to Group 'A' posts and another for promotion to Group 'B', 'C' and 'D' posts. These Committees are convened from time to time for consideration of promotion of eligible officers and staff, having regard to seniority-cum-merit, qualification and length of service as prescribed under the Service Regulation.

Meghalaya State Pollution Control Board
Shillong
MEMBER SECRETARY



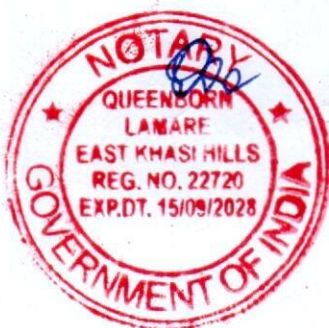
10. It is submitted that a number of posts have already been filled up through promotion. The vacancy position can therefore be reduced to the minimum level substantially through direct recruitment.
11. That it is respectfully submitted that the timeline for filling up the vacant posts is dependent upon the approval of the State Government in respect of the recruitment proposal and the amendment of the Service Regulation.

RE: INFRASTRUCTURE / MONITORING PARAMETERS

12. That, as reflected in the CPCB report, the Board presently has the following infrastructure facilities available for monitoring of environmental parameters:

- i. Water & Wastewater Parameters: 49 out of 67;
- ii. Solid & Solid Waste Parameters: 14 out of 15; and
- iii. Meteorology, Air, Noise & Emission Parameters: 23 out of 28.

13. That, further, the following instruments and equipment are available with the Board:



- i. For Sampling of Water, Wastewater and Soil/Hazardous Wastes: 11 out of 11;
- ii. For Sampling of Ambient Air & Source Emission Monitoring: 19 out of 22;
- iii. For Processing of Environmental Samples: 37 out of 46; and
- iv. Analytical Instruments: 22 out of 26.

14. That the monitoring parameters presently not tested/analysed are due to non-availability of the requisite facilities as of now. In respect of such parameters, the timeline for addition of the parameters and/or action taken has been specified in the enclosed statement on "Parameters and Equipments". Similarly, in respect of sampling and analytical infrastructure, instruments and equipment presently not available with the Board, the timeline for addition of such instruments/equipment and/or action taken has also been specified in the said statement.

(A copy of the statement on "Parameters and Equipments" is marked and annexed hereto as Annexure R/5.)



15. That it is further submitted that, as also reflected in the note appended to the CPCB report, all facilities for monitoring environmental parameters may not necessarily be required to be set up with every SPCB/PCC, as the number of parameters to be monitored may vary depending upon the types of industries/activities within the jurisdiction of the respective SPCB/PCC.

RE: LABORATORY PERFORMANCE / PT PARTICIPATION

16. That, as reflected in the CPCB report, out of 4 (four) laboratories of the Meghalaya State Pollution Control Board, 1 (one) laboratory participated in the PT Programme during each of the years 2022, 2023 and 2024, reflecting 25% participation during the said period.
17. That, in this regard, it is submitted that during the period 2022 – 2024, the Central Laboratory of the Meghalaya State Pollution Control Board participated in the PT Programme.
18. That, however, during the year 2025, all 4 (four) laboratories of the Board participated in the PT Programmes, thereby indicating 100% participation in the quality assurance mechanism. The



MEMBER SECRETARY
Meghalaya State Pollution Control Board
Shillong

relevant details are provided in the enclosed statement on "Laboratory Details".

(A copy of the statement on "Laboratory Details" is marked and annexed hereto as Annexure R/6.)

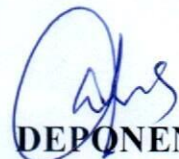
19. That the Board has placed the aforesaid facts and the present status before this Hon'ble Tribunal in compliance with the directions contained in the order dated 10.04.2026.
20. That the statements made in the above paragraphs are true and correct to the best of my knowledge and information and are based on the official records of the Board.

Date: 14.07.2026

Place: Shillong

Identified by:-


(Miss. P. S. Barh)
(Advocate)



DEPONENT

MEMBER SECRETARY
Meghalaya State Pollution Control Board
Shillong



VERIFICATION

I, **Dr. George Hagi Chyrmang**, aged about 45 years, serving as Member Secretary, Meghalaya State Pollution Control Board (MSPCB), having office at Lumpyngngad, Shillong, Meghalaya, 793014, do hereby state that I have submitted this Reply Affidavit on solemn affirmation and oath. I have verified that the facts are true to the best of my personal knowledge and belief. I have not suppressed any material fact known to me and/or relevant to this matter.

Date: *14.07.2026*

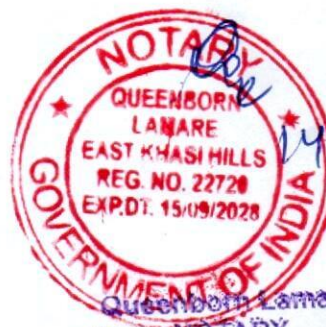
Place: *Shillong*

Identified by:-

[Signature]
(Miss. P. S. Barch)
(Advocate)

[Signature]
DEPONENT
MEMBER SECRETARY
Meghalaya State Pollution Control Board
Shillong

Solemnly Affirmed before me this Day on *14/7/26* The deponent is identified by *Ms P.S. Barch* I Certify that the contents of the Affidavit are read over and Explained to the Deponent who verified the same before me.



Meghalaya State Pollution Control Board

Forests & Environment Department, Government of Meghalaya

'ARDEN' Lumpyngngad, Shillong - 793014

Website : <http://megspcb.gov.in>

(41)



No. MPCB/GEN-368/2022/ 41

Dated Shillong the 18th August 2025

To:

The Joint Secretary to the Government of Meghalaya
Forests & Environment Department
Meghalaya, Shillong

Sub: Approval of break-up of vacancies for the proposed recruitment

Sir,

With reference to the above, the Meghalaya State Pollution Control Board is proposing to conduct recruitment for various posts in the coming months. In this regard, kindly move the Personnel & Administrative Reform (B) Department for approval of the breakup of vacancies as indicated in the enclosed draft Recruitment Notice. Further, copies of approved roster for respective posts are enclosed herewith for reference.

Further, the competent authority may be requested to that the Meghalaya State Pollution Control Board may be authorised as approving authority for roster within the Board for the purpose of Ease of Doing Business (EODB).

This is for your kind information and necessary action.

Encl: As stated

Yours Faithfully


[DR. G.H. CHYRMANG, MFS]
MEMBER SECRETARY
Meghalaya State Pollution Control Board
Shillong

o/c

ADVERTISEMENT

No. SB/ESTT-29/PT-IV/2025-2026/

Dated Shillong the

2025

The Meghalaya State Pollution Control Board invites online Applications from genuine citizens of India through the link given at <https://megspcb.gov.in> who are desirous to apply for the under-mentioned posts as per terms and conditions of this advertisement. Candidates should read the instructions carefully before making any entry or selecting any options. Candidates should supply the correct details while filling up the form. Mandatory fields are marked with *(asterisk) sign.

IMPORTANT

- A. It is mandatory for the applicants to have acquired the requisite educational qualification(s) prescribed for the post, as on the last date fixed for submission of applications.
- B. The date on which an applicant is deemed to have acquired the requisite educational qualification shall be the date on which the result of the last examination for such qualification/degrees declared by the Universities/Boards/Institutions.

LIST OF POSTS

Sl. No.	Name of Post	Grade	No. of Vacancy	Breakup of Vacancy				Level of Pay (As per Pay Matrix of the Meghalaya Fifth Pay Commission)	Minimum Educational Qualification & Experience
				UR	Khasi & Jaintia	Garos	OSTs /SCs		
1.	Assistant Environmental Engineer	A	3	0	1	1	1	L-15	Bachelor's Degree in Chemical/Environmental /Civil Engineering from a recognized University/Institution.
2.	Laboratory Assistant	C	4	1	2	1	0	L-6	Bachelor's Degree in Science (Agriculture/ Forestry/Chemistry/Botany/Zoology/Physics/Environmental Science/ Ecology & Environment/ Geology/ Pisciculture/Bio-Chemistry/Micro Biology) from a recognized Institution or equivalent examination. Preference shall be given to Junior Scientific Assistant (under NAMP Scheme) who has served the Board more than 3(three) years and having requisite qualification.
3.	Typist Grade-III	C	1	0	1	0	0	L-4	Class XII or equivalent examination passed with basic knowledge of computer with minimum Speed of 40 w.p.m. in English Typing.
4.	Driver	C	1	1	0	0	0	L-4	Class VIII passed from a recognized School/Institution and should possess a valid Professional Driving License for Light/Heavy Vehicles.
5.	Sample Collector	D	4	0	2	2	0	L-1	Class VIII passed from a recognized School. Preference shall be given to Field Assistant (under NAMP Scheme) who has served the Board more than 3 (three) years and having requisite qualification.
6.	Laboratory Attendant	D	2	0	1	1	0	L-1	Class VIII passed from a recognized School. Preference shall be given to scientific project staff of the Board who has served more than 3 (three) years and having requisite qualification.
7.	Peon	D	8	1	3	3	1	L-1	Class VIII passed from a recognized School. Preference shall be given to project staff of the Board who has served more than 3(three) years and having requisite qualification.

1. The Selection Committee has the right to alter number of post/qualification, etc. as deemed fit and proper as per the requirement of the Board.
2. The candidates should be able to speak English or other associate official languages of the State.
3. Candidates can apply for the said post w.e.f till 12:00 P.M of
4. Candidates who want to apply are required to register themselves with the **Online Recruitment Application System, Government of Meghalaya**, through the link given at the website <https://megspcb.gov.in> using valid email IDs. Registered candidates can apply directly by logging into their respective account using their registered email IDs.
5. Eligible candidates who are appearing for written examination in various posts are instructed to refer to the syllabus prepared for respective posts from the above website.
6. Applicants will pay the fee of Rs..... (Rupees) only (Half rate for STs/SCs who are permanent residents of the state of Meghalaya) for each post, using one of the following modes of payment available with the online application:
 - Internet Banking
 - Credit card/Debit Cards of major nationalized banks
 - UPI
7. The candidates may have to pay additional Bank Charges, which may be applicable depending on the mode of payment.
8. Fees are non-refundable. Candidates are advised to go through the instructions carefully before making online


MEMBER SECRETARY-CUM MEMBER CONVENER
Selection Committee
Meghalaya State Pollution Control Board
Shillong

Meghalaya State Pollution Control Board

Forests & Environment Department, Government of Meghalaya

'ARDEN' Lumpyngngad, Shillong - 793014

Website : <http://megspcb.gov.in>

No. MPCB/GEN-368/2022/47

Dated Shillong the 10th April 2026

From:

The Member Secretary
Meghalaya State Pollution Control Board
Shillong

To:

The Joint Secretary to the Government of Meghalaya
Forests & Environment Department
Meghalaya, Shillong

Sub:

Matter pertaining to Reservation Roster

Ref:

No. FOR.31/2022/Pt/414 Dated 06.04.2026

Sir,

With reference to the above, I am to state the following in matters relating with the reservation roster for the posts of Assistant Environmental Engineer, Laboratory Assistant, Sample Collector, Laboratory Attendant & Peon: -

The Reservation Roster of the Meghalaya State Pollution Control Board alongwith corresponding breakup of vacancy(ies) was approved by the competent authority vide letter No. PER (AR) 125/20/22//Pt/44 dated 21.06.2024 and forwarded to this office vide Letter No. FOR.31/2022/Pt/267 dated 25.06.2024. (Copies enclosed at ANNEXURE-A & B).

The current status of reservation roster and breakup of vacancy(ies) of the post of (a) Assistant Environmental Engineer (b) Laboratory Assistant (c) Sample Collector (d) Laboratory Attendant (e) Peon are enclosed at ANNEXURE-C.

Further, the recruitment status of each above-mentioned post are as indicated below:

- (i) The latest recruitment for the post of Assistant Environmental Engineer was done during February – July 2025 and the advertisement is enclosed at ANNEXURE-D.
- (ii) The last recruitment for the post of Laboratory Assistant was advertised during September 2020 but the recruitment process was delayed due to various reasons and was completed in December 2024. The Advertisement for the mentioned post is enclosed at ANNEXURE-E.
- (iii) Prior to the implementation of the Meghalaya State Pollution Control Board Service Regulation, 2019, Group-D posts such as Sample Collector, Laboratory Attendant and Peon are filled up by regularisation from the temporary (Adhoc/casual/contractual) employees as approved by the Board.

The current status of above-mentioned posts is as indicated at ANNEXURE-F.

This is for your kind information.

Yours Faithfully

[DR. G.H. CHYRMANG, MFS]

MEMBER SECRETARY

Meghalaya State Pollution Control Board
Shillong

O/C

6211
Meghalaya State Pollution Control Board
Forests & Environment Department, Government of Meghalaya
'ARDEN' Lumpyngngad, Shillong - 793014
Website : <http://megspcb.gov.in>



No.MPCB/GEN-23/PT-A/2024-2025/96

Dated Shillong the 4th July 2024

To

The Jt. Secretary,
to the Govt. of Meghalaya
Forests & Environment Department
Meghalaya, Shillong.

Sub: First Amendment of Meghalaya State Pollution Control Board Service Regulations 2019-reg.

Sir,

With reference to the above, I am to inform you that there are some anomalies and errors detected in the existing Meghalaya State Pollution Control Board Service Regulations 2019. In this regard, the Board has done correction on parts of the regulations. Therefore, I am pleased to submit herewith the First Draft Amendment of Meghalaya State Pollution Control Board Service Regulations 2024 for scrutinisation and approval by government.

- Encls: 1) First Draft Amendment MSPCB Service Regulation.
2) Existing MSPCB Service Regulation 2019.

Yours faithfully

(Dr. G.H. Chyrmang, MFS)

Member Secretary

Meghalaya State Pollution Control Board

Shillong.

Memo No. No.MPCB/GEN-23/PT-A/2024-2025/96-A Dated Shillong the 4th July 2024

Copy to : 1) The Secretary, to the Govt. of Meghalaya, Forests & Environment Department, Shillong for favour of information.

2) The Chairman, Meghalaya State Pollution Control Board, Shillong for favour of information with a request to take up the matter at the government level.

Member Secretary

Meghalaya State Pollution Control Board

Shillong.

Meghalaya State Pollution Control Board

Forests & Environment Department, Government of Meghalaya

'ARDEN' Lumpynggad, Shillong - 793014

Website : <http://megspcb.gov.in>

No. MPCB/ESTT-23/PT-A/2025-2026/121

Dated Shillong, the 28th February 2026

From:

Dr. G.H. Chyrmang, MFS
Member Secretary
Meghalaya State Pollution Control Board
Shillong

To:

Shri S.S. Syiemlieh, MCS
Joint Secretary to the Government of Meghalaya
Forests & Environment Department
Meghalaya, Shillong

Sub: First Amendment of the Meghalaya State Pollution Control Board Service Regulation 2019-reg.

Ref: No. FOR.55/2017/427 dated 18.02.2026

Sir,

With reference to the above, I am resubmitting herewith the draft Notification on the First Amendment of the Meghalaya State Pollution Control Board Service Regulation, 2019 after all necessary correction indicated by the Law (B) Department has been incorporated accordingly.

This is for your kind information and necessary action.

Yours Faithfully

Enclo: As stated


[DR.G.H. CHYRMANG, MFS]
MEMBER SECRETARY
Meghalaya State Pollution Control Board
Shillong

D/C

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: Meghalaya State Pollution Control Board

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)
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	6214 ^{es}		
3	Cyanide	No	No	Outsourced
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)	6215 ^{es}		
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	No	No	Outsourced
5	Benzopyrene	No	No	Outsourced
6	Pesticides			
6.a	Organochlorine Pesticides (OCPs) Tests			
i	Aldrin	No	31 Months	Specification Finalized
ii	Alpha Endosulphan	No	31 Months	Specification Finalized
iii	p,p'-DDT	No	31 Months	Specification Finalized
iv	Alpha-HCH	No	31 Months	Specification Finalized
v	Beta HCH	No	31 Months	Specification Finalized
vi	Beta Endosulphan	No	31 Months	Specification Finalized
vii	Gama-HCH	No	31 Months	Specification Finalized
viii	o,p'-DDT	No	31 Months	Specification Finalized
ix	p,p'-DDE	No	31 Months	Specification Finalized
6.b	Organophosphorus Pesticides (OPPs) Tests			
i	Malathion	No	31 Months	Specification Finalized
ii	Methyl parathion	No	31 Months	Specification Finalized

iii	Chlorpyriphos	6216 No	31 Months	Specification Finalized
iv	Dimethoate	No	31 Months	Specification Finalized
v	Dieldrin	No	31 Months	Specification Finalized
vi	Ethion	No	31 Months	Specification Finalized
(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)	No	No	Outsourced
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)	6217 ^{es}		
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 NO ₂	Yes		
2	Sulphur dioxide (SO ₂)	Yes		
3	Particulate matter (PM ₁₀)	Yes		
4	Particulate matter (PM _{2.5})	Yes		
5	Carbon Monoxide	Yes		
6	Ozone	Yes		
7	Benzene	No	No	Outsourced
8	Ammonia	No	No	Outsourced
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)	No	No	Outsourced
(b) Stack Gas / Stationary Source Emission				
1	Particulate Matter	Yes		
2	Sulphur Dioxide	Yes		
3	Carbon Dioxide	Yes		
4	Carbon Monoxide (NDIR based Method)	Yes		
5	Temperature	Yes		
6	Moisture	Yes		
7	Oxygen	Yes		
8	Oxides of Nitrogen	Yes		
9	Halides (HCL/HF)	No	No	Outsourced

(c) Noise Level		6218		
1	Ambient Noise level measurement (20 to 140 dB)	Yes		
2	Source Noise Level Measurement (Industrial process, DG set- 20 to 140dB)	Yes		
(d) Meteorological Monitoring				
1	Ambient Temperature	Yes		
2	Wind direction	Yes		
3	Wind speed	Yes		
4	Relative Humidity	Yes		
5	Mixing Height	No	No	Outsourced
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)
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	6219 ^{es}		
9	Ground water level measuring device	Yes		
10	Scoop / shovel	Yes		
11	Auger / core sampler	Yes		
b) Optional Requirements				
1	Bottom Sampler / Depth sampler	No	31 Months	Specification Finalized
2	Chloroscope for residual chlorine	No	31 Months	Specification Finalized
3	Vandorn or equivalent water sampler (Automatic sampler when composite sampling to be done)	No	31 Months	Specification Finalized
4	Ekman Dredge	No	31 Months	Specification Finalized
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	No	31 Months	Specification Finalized
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	6220 ^{es}		
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	No	Outsourced
22	Polyurethane Foam PUF Sampler	No	No	Outsourced
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	No	Outsourced
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	Yes		
15	Ambient Ammonia analyzer	Yes		
16	Zero Gas Generator	No	No	Outsourced
17	Synthetic Air Cylinder	No	No	Outsourced

18	Calibration Gas Cylinders, SO ₂ , NO, CO, NH ₃ , Benzene and Toluene One each with stainless steel Regulators	6221 ¹ No	No	Outsourced
19	Continuous emission monitoring equipment	Yes		
20	19 inch Rack mounting system for air analyzers	Yes		
21	Dry Gas Meter	No	No	Outsourced
22	Diesel Exhaust analyzer	Yes		
23	Exhaust CO/HC analyzer with Sampling Probe	Yes		
24	Automated Noise Monitoring System	Yes		
25	Integrating Sound level meter	Yes		
26	Continuous PM ₁₀ & PM _{2.5} Monitoring Analyzer TEOM system	Yes		
27	Top loading orifice kit for calibration of HVS	Yes		
28	Permeation tubes (SO ₂ , NO-NO ₂ -NO _x , NH ₃ , BTX)	Yes		
C. List of Equipment required for processing of Environmental Samples:				
a) Mandatory Requirements				
1	Accelerated Solvent Extraction (ASE) System	No	31 Months	Specification Finalized
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)	No	No	Outsourced
12	Deep Freezer- Capacity 500 litre	Yes		
13	Laboratory Ball Mill Grinder	No	31 Months	Specification Finalized

14	Laboratory Grinder	6222 No	31 Months	Specification Finalized
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)	No	No	Outsourced
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)	No	No	Outsourced
29	Arsenic / Fluoride Glass Distillation assemblies	No	No	Outsourced
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	Yes		
39	Soxhlet Apparatus	Yes		
40	Solid Phase Extraction (SPE) /SPME Extraction system	Yes		

41	Thermometer (Alcohol)	6223 No	31 Months	Specification Finalized
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	No	No	Outsourced
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	No	No	Outsourced
5	Colony counter	Yes		
6	Conductivity meter- 2 nos.	Yes		
7	Environment conditioning chamber	Yes		
8	Digital Burettes- 50 ml*2, 100 ml*2	Yes		
9	Dissolved Oxygen Meter (Bench model)	Yes		
10	Flame Photometer	Yes		
11	Flash Point Apparatus	Yes		
12	Gas Chromatograph Mass Spectrometer	No	No	Outsourced
13	High Performance Liquid Chromatograph (HPLC)	No	No	Outsourced
14	Inductively Coupled Plasma (ICP) Spectrometer-OES	Yes		
15	Ion Chromatograph Anion & Cations	Yes		
16	Methane and Non Methane (NMHC) Analyzer	No	No	Outsourced
17	Microscope – 100x	Yes		
18	Microscope Binocular Research	Yes		

19	CO (NDIR based) Analyzer	6224 ^{es}		
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	No	No	Outsourced
3	EDXRF Analyzer/WDXRF Analyzer	No	No	Outsourced
4	Fourier-transform infrared Spectrometer (FTIR)	No	No	Outsourced
5	Flocculator (Jar testing apparatus)	No	No	Outsourced
6	Toxic Gas Analyzer	No	No	Outsourced
7	Organic Halogen (AOX/TOX) Analyzer	No	No	Outsourced
8	TOC Analyzer	No	No	Outsourced
9	High Resolution Mass Spectrometer (HRGC-HRMS)	No	No	Outsourced
10	Inductively Coupled Plasma Mass (ICP-MS) Spectrometer	No	No	Outsourced
11	X Ray Fluorescence (XRF) Spectrometer (Portable)	No	55 Months	Specification Finalized
Specific remarks, if any:				

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

LABORATORY ANALYTICAL FACILITIES

Name of the Board / Committee: Meghalaya State Pollution Control Board

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)
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	6226	Yes		
2	Chloride		Yes		
3	Cyanide		No	No	Outsourced
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)	6227 ^{es}		
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	No	No	Outsourced
5	Benzopyrene	No	No	Outsourced
6	Pesticides			
6.a	Organochlorine Pesticides (OCPs) Tests			
i	Aldrin	No	31 Months	Specification Finalized
ii	Alpha Endosulphan	No	31 Months	Specification Finalized
iii	p,p'-DDT	No	31 Months	Specification Finalized
iv	Alpha-HCH	No	31 Months	Specification Finalized
v	Beta HCH	No	31 Months	Specification Finalized
vi	Beta Endosulphan	No	31 Months	Specification Finalized
vii	Gama-HCH	No	31 Months	Specification Finalized
viii	o,p'-DDT	No	31 Months	Specification Finalized
ix	p,p'-DDE	No	31 Months	Specification Finalized
6.b	Organophosphorus Pesticides (OPPs) Tests			

i	Malathion	6228 No	31 Months	Specification Finalized
ii	Methyl parathion	No	31 Months	Specification Finalized
iii	Chlorpyrifos	No	31 Months	Specification Finalized
iv	Dimethoate	No	31 Months	Specification Finalized
v	Dieldrin	No	31 Months	Specification Finalized
vi	Ethion	No	31 Months	Specification Finalized
(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)	No	No	Outsourced
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)	6229 ^{es}		
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	No	No	Outsourced
8	Ammonia	No	No	Outsourced
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)	No	No	Outsourced
(b) Stack Gas / Stationary Source Emission				
1	Particulate Matter	Yes		
2	Sulphur Dioxide	Yes		
3	Carbon Dioxide	Yes		
4	Carbon Monoxide (NDIR based Method)	Yes		
5	Temperature	Yes		
6	Moisture	Yes		
7	Oxygen	Yes		

8	Oxides of Nitrogen	6230 ^{es}		
9	Halides (HCL/HF)	No	No	Outsourced
(c) Noise Level				
1	Ambient Noise level measurement (20 to 140 dB)	Yes		
2	Source Noise Level Measurement (Industrial process, DG set- 20 to 140dB)	Yes		
(d) Meteorological Monitoring				
1	Ambient Temperature	Yes		
2	Wind direction	Yes		
3	Wind speed	Yes		
4	Relative Humidity	Yes		
5	Mixing Height	No	No	Outsourced
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)
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	6231 ^{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	Yes		
10	Scoop / shovel	Yes		
11	Auger / core sampler	Yes		
b) Optional Requirements				
1	Bottom Sampler / Depth sampler	No	31 Months	Specification Finalized
2	Chloroscope for residual chlorine	No	31 Months	Specification Finalized
3	Vandorn or equivalent water sampler (Automatic sampler when composite sampling to be done)	No	31 Months	Specification Finalized
4	Ekman Dredge	No	31 Months	Specification Finalized
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	No	31 Months	Specification Finalized
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	6232 ^{es}		
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	No	Outsourced
22	Polyurethane Foam PUF Sampler	No	No	Outsourced
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	No	Outsourced
7	Continuous PM2.5 analyzer	Yes		
8	Ambient Nitrogen Oxides (NO-NO2-NOx Analyzer	Yes		
9	Ambient Ozone Analyzer	Yes		

10	Ambient BTEX Analyzer	6233 ^{es}		
11	Multipoint Gas Calibration system	Yes		
12	Ambient Sulphur Dioxide analyzer	Yes		
13	Ambient Carbon Monoxide & Carbon dioxide analyzer	Yes		
14	Total Hydrocarbon analyzer	Yes		
15	Ambient Ammonia analyzer	Yes		
16	Zero Gas Generator	No	No	Outsourced
17	Synthetic Air Cylinder	No	No	Outsourced
18	Calibration Gas Cylinders, SO ₂ , NO, CO, NH ₃ , benzene and Toluene One each with stainless steel Regulators	No	No	Outsourced
19	Continuous emission monitoring equipment	Yes		
20	19 inch Rack mounting system for air analyzers	Yes		
21	Dry Gas Meter	No	No	Outsourced
22	Diesel Exhaust analyzer	Yes		
23	Exhaust CO/HC analyzer with Sampling Probe	Yes		
24	Automated Noise Monitoring System	Yes		
25	Integrating Sound level meter	Yes		
26	Continuous PM ₁₀ & PM _{2.5} Monitoring Analyzer TEOM system	Yes		
27	Top loading orifice kit for calibration of HVS	Yes		
28	Permeation tubes (SO ₂ , NO-NO ₂ -NO _x , NH ₃ , BTX)	Yes		

C. List of Equipment required for processing of Environmental Samples:

a) Mandatory Requirements

1	Accelerated Solvent Extraction (ASE) System	No	31 Months	Specification Finalized
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)	6234 ^{es}		
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)	No	No	Outsourced
12	Deep Freezer- Capacity 500 litre	Yes		
13	Laboratory Ball Mill Grinder	No	31 Months	Specification Finalized
14	Laboratory Grinder	No	31 Months	Specification Finalized
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)	No	No	Outsourced
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)	No	No	Outsourced
29	Arsenic / Fluoride Glass Distillation assemblies	No	No	Outsourced
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	6235 ^{es}		
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	Yes		
39	Soxhlet Apparatus	Yes		
40	Solid Phase Extraction (SPE) /SPME Extraction system	Yes		
41	Thermometer (Alcohol)	No	31 Months	Specification Finalized
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	No	No	Outsourced
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	No	No	Outsourced
5	Colony counter	Yes		
6	Conductivity meter- 2 nos.	Yes		
7	Environment conditioning chamber	Yes		
8	Digital Burettes- 50 ml*2, 100 ml*2	Yes		
9	Dissolved Oxygen Meter (Bench model)	Yes		

10	Flame Photometer	6236	Yes		
11	Flash Point Apparatus		Yes		
12	Gas Chromatograph Mass Spectrometer		No	No	Outsourced
13	High Performance Liquid Chromatograph (HPLC)		No	No	Outsourced
14	Inductively Coupled Plasma (ICP) Spectrometer-OES		Yes		
15	Ion Chromatograph Anion & Cations		Yes		
16	Methane and Non Methane (NMHC) Analyzer		No	No	Outsourced
17	Microscope – 100x		Yes		
18	Microscope Binocular Research		Yes		
19	CO (NDIR based) Analyzer		Yes		
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		No	No	Outsourced
3	EDXRF Analyzer/WDXRF Analyzer		No	No	Outsourced
4	Fourier-transform infrared Spectrometer (FTIR)		No	No	Outsourced
5	Flocculator (Jar testing apparatus)		No	No	Outsourced
6	Toxic Gas Analyzer		No	No	Outsourced
7	Organic Halogen (AOX/TOX) Analyzer		No	No	Outsourced
8	TOC Analyzer		No	No	Outsourced
9	High Resolution Mass Spectrometer (HRGC-HRMS)		No	No	Outsourced

10	Inductively Coupled Plasma Mass (ICP-MS) Spectrometer	6237 ^{No}	No	Outsourced
11	X Ray Fluorescence (XRF) Spectrometer (Portable)	No	55 Months	Specification Finalized
Specific remarks, if any:				

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

LABORATORY ANALYTICAL FACILITIES

Name of the Board / Committee: Meghalaya State Pollution Control Board

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)
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	6239 ^{es}		
2	Chloride	Yes		
3	Cyanide	No	No	Outsourced
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)	6240 ^{es}		
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 C6H5OH	No	No	Outsourced
5	Benzopyrene	No	No	Outsourced
6	Pesticides			
6.a	Organochlorine Pesticides (OCPs) Tests			
i	Aldrin	No	31 Months	Specification Finalized
ii	Alpha Endosulphan	No	31 Months	Specification Finalized
iii	p,p'-DDT	No	31 Months	Specification Finalized
iv	Alpha-HCH	No	31 Months	Specification Finalized
v	Beta HCH	No	31 Months	Specification Finalized
vi	Beta Endosulphan	No	31 Months	Specification Finalized
vii	Gama-HCH	No	31 Months	Specification Finalized
viii	o,p'-DDT	No	31 Months	Specification Finalized
ix	p,p'-DDE	No	31 Months	Specification Finalized
6.b	Organophosphorus Pesticides (OPPs) Tests			
i	Malathion	No	31 Months	Specification Finalized

ii	Methyl parathion	6241	No	31 Months	Specification Finalized
iii	Chlorpyriphos		No	31 Months	Specification Finalized
iv	Dimethoate		No	31 Months	Specification Finalized
v	Dieldrin		No	31 Months	Specification Finalized
vi	Ethion		No	31 Months	Specification Finalized
(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)		No	No	Outsourced
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	6242 ^{es}		
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	No	No	Outsourced
8	Ammonia	No	No	Outsourced
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)	No	No	Outsourced
(b) Stack Gas / Stationary Source Emission				
1	Particulate Matter	Yes		
2	Sulphur Dioxide	Yes		
3	Carbon Dioxide	Yes		
4	Carbon Monoxide (NDIR based Method)	Yes		
5	Temperature	Yes		
6	Moisture	Yes		
7	Oxygen	Yes		
8	Oxides of Nitrogen	Yes		

9	Halides (HCL/HF)	6243	No	No	Outsourced
(c) Noise Level					
1	Ambient Noise level measurement (20 to 140 dB)		Yes		
2	Source Noise Level Measurement (Industrial process, DG set- 20 to 140dB)		Yes		
(d) Meteorological Monitoring					
1	Ambient Temperature		Yes		
2	Wind direction		Yes		
3	Wind speed		Yes		
4	Relative Humidity		Yes		
5	Mixing Height		No	No	Outsourced
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)	
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	6244 ^{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	Yes		
10	Scoop / shovel	Yes		
11	Auger / core sampler	Yes		
b) Optional Requirements				
1	Bottom Sampler / Depth sampler	No	31 Months	Specification Finalized
2	Chloroscope for residual chlorine	No	31 Months	Specification Finalized
3	Vandorn or equivalent water sampler (Automatic sampler when composite sampling to be done)	No	31 Months	Specification Finalized
4	Ekman Dredge	No	31 Months	Specification Finalized
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	No	31 Months	Specification Finalized
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	6245 ^{es}		
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	No	Outsourced
22	Polyurethane Foam PUF Sampler	No	No	Outsourced
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	No	Outsourced
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	6246	Yes		
12	Ambient Sulphur Dioxide analyzer		Yes		
13	Ambient Carbon Monoxide & Carbon dioxide analyzer		Yes		
14	Total Hydrocarbon analyzer		Yes		
15	Ambient Ammonia analyzer		Yes		
16	Zero Gas Generator		No	No	Outsourced
17	Synthetic Air Cylinder		No	No	Outsourced
18	Calibration Gas Cylinders, SO ₂ , NO, CO, NH ₃ , Benzene and Toluene One each with stainless steel Regulators		No	No	Outsourced
19	Continuous emission monitoring equipment		Yes		
20	19 inch Rack mounting system for air analyzers		Yes		
21	Dry Gas Meter		No	No	Outsourced
22	Diesel Exhaust analyzer		Yes		
23	Exhaust CO/HC analyzer with Sampling Probe		Yes		
24	Automated Noise Monitoring System		Yes		
25	Integrating Sound level meter		Yes		
26	Continuous PM ₁₀ & PM _{2.5} Monitoring Analyzer TEOM system		Yes		
27	Top loading orifice kit for calibration of HVS		Yes		
28	Permeation tubes (SO ₂ , NO-NO ₂ -NO _x , NH ₃ , BTX)		Yes		

C. List of Equipment required for processing of Environmental Samples:

a) Mandatory Requirements

1	Accelerated Solvent Extraction (ASE) System	No	31 Months	Specification Finalized
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.)	6247 ^{es}		
9	Centrifuge	Yes		
10	COD Digestion heated Blocks (2) with capacity 16 nos. or more	Yes		
11	Cyanide Distillation Assembly (3)	No	No	Outsourced
12	Deep Freezer- Capacity 500 litre	Yes		
13	Laboratory Ball Mill Grinder	No	31 Months	Specification Finalized
14	Laboratory Grinder	No	31 Months	Specification Finalized
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)	No	No	Outsourced
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)	No	No	Outsourced
29	Arsenic / Fluoride Glass Distillation assemblies	No	No	Outsourced
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)	6248 ^{es}		
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	Yes		
39	Soxhlet Apparatus	Yes		
40	Solid Phase Extraction (SPE) /SPME Extraction system	Yes		
41	Thermometer (Alcohol)	No	31 Months	Specification Finalized
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	No	No	Outsourced
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	No	No	Outsourced
5	Colony counter	Yes		
6	Conductivity meter- 2 nos.	Yes		
7	Environment conditioning chamber	Yes		
8	Digital Burettes- 50 ml*2, 100 ml*2	Yes		
9	Dissolved Oxygen Meter (Bench model)	Yes		
10	Flame Photometer	Yes		
11	Flash Point Apparatus	Yes		

12	Gas Chromatograph Mass Spectrometer	6249	No	No	Outsourced
13	High Performance Liquid Chromatograph (HPLC)		No	No	Outsourced
14	Inductively Coupled Plasma (ICP) Spectrometer-OES		Yes		
15	Ion Chromatograph Anion & Cations		Yes		
16	Methane and Non Methane (NMHC) Analyzer		No	No	Outsourced
17	Microscope – 100x		Yes		
18	Microscope Binocular Research		Yes		
19	CO (NDIR based) Analyzer		Yes		
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		No	No	Outsourced
3	EDXRF Analyzer/WDXRF Analyzer		No	No	Outsourced
4	Fourier-transform infrared Spectrometer (FTIR)		No	No	Outsourced
5	Flocculator (Jar testing apparatus)		No	No	Outsourced
6	Toxic Gas Analyzer		No	No	Outsourced
7	Organic Halogen (AOX/TOX) Analyzer		No	No	Outsourced
8	TOC Analyzer		No	No	Outsourced
9	High Resolution Mass Spectrometer (HRGC-HRMS)		No	No	Outsourced
10	Inductively Coupled Plasma Mass (ICP-MS) Spectrometer		No	No	Outsourced
11	X Ray Fluorescence (XRF) Spectrometer (Portable)		No	55 Months	Specification Finalized

		6250		
Specific remarks, if any:				

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

LABORATORY ANALYTICAL FACILITIES

Name of the Board / Committee: Meghalaya State Pollution Control Board				

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)

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		
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2	Chloride	6252 ^{es}		
3	Cyanide	No	No	Outsourced
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)	6253 ^{es}		
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	No	No	Outsourced
5	Benzopyrene	No	No	Outsourced
6	Pesticides			
6.a	Organochlorine Pesticides (OCPs) Tests			
i	Aldrin	No	31 Months	Specification Finalized
ii	Alpha Endosulphan	No	31 Months	Specification Finalized
iii	p,p'-DDT	No	31 Months	Specification Finalized
iv	Alpha-HCH	No	31 Months	Specification Finalized
v	Beta HCH	No	31 Months	Specification Finalized
vi	Beta Endosulphan	No	31 Months	Specification Finalized
vii	Gama-HCH	No	31 Months	Specification Finalized
viii	o,p'-DDT	No	31 Months	Specification Finalized
ix	p,p'-DDE	No	31 Months	Specification Finalized
6.b	Organophosphorus Pesticides (OPPs) Tests			
i	Malathion	No	31 Months	Specification Finalized

ii	Methyl parathion	6254 ^{No}	31 Months	Specification Finalized
iii	Chlorpyriphos	No	31 Months	Specification Finalized
iv	Dimethoate	No	31 Months	Specification Finalized
v	Dieldrin	No	31 Months	Specification Finalized
vi	Ethion	No	31 Months	Specification Finalized
(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)	No	No	Outsourced
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	6255	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		No	No	Outsourced
8	Ammonia		No	No	Outsourced
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)		No	No	Outsourced
(b) Stack Gas / Stationary Source Emission					
1	Particulate Matter		Yes		
2	Sulphur Dioxide		Yes		
3	Carbon Dioxide		Yes		
4	Carbon Monoxide (NDIR based Method)		Yes		
5	Temperature		Yes		
6	Moisture		Yes		
7	Oxygen		Yes		
8	Oxides of Nitrogen		Yes		

9	Halides (HCL/HF)	6256	No	No	Outsourced
(c) Noise Level					
1	Ambient Noise level measurement (20 to 140 dB)		Yes		
2	Source Noise Level Measurement (Industrial process, DG set- 20 to 140dB)		Yes		
(d) Meteorological Monitoring					
1	Ambient Temperature		Yes		
2	Wind direction		Yes		
3	Wind speed		Yes		
4	Relative Humidity		Yes		
5	Mixing Height		No	No	Outsourced
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)	
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	6257 ^{es}		
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	Yes		
10	Scoop / shovel	Yes		
11	Auger / core sampler	Yes		
b) Optional Requirements				
1	Bottom Sampler / Depth sampler	No	31 Months	Specification Finalized
2	Chloroscope for residual chlorine	No	31 Months	Specification Finalized
3	Vandorn or equivalent water sampler (Automatic sampler when composite sampling to be done)	No	31 Months	Specification Finalized
4	Ekman Dredge	No	31 Months	Specification Finalized
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	No	31 Months	Specification Finalized
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	6258 ^{es}		
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	No	Outsourced
22	Polyurethane Foam PUF Sampler	No	No	Outsourced
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	No	Outsourced
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	6259 ^{es}		
14	Total Hydrocarbon analyzer	Yes		
15	Ambient Ammonia analyzer	Yes		
16	Zero Gas Generator	No	No	Outsourced
17	Synthetic Air Cylinder	No	No	Outsourced
18	Calibration Gas Cylinders, SO ₂ , NO, CO, NH ₃ , benzene and Toluene One each with stainless steel Regulators	No	No	Outsourced
19	Continuous emission monitoring equipment	Yes		
20	19 inch Rack mounting system for air analyzers	Yes		
21	Dry Gas Meter	No	No	Outsourced
22	Diesel Exhaust analyzer	Yes		
23	Exhaust CO/HC analyzer with Sampling Probe	Yes		
24	Automated Noise Monitoring System	Yes		
25	Integrating Sound level meter	Yes		
26	Continuous PM ₁₀ & PM _{2.5} Monitoring Analyzer TEOM system	Yes		
27	Top loading orifice kit for calibration of HVS	Yes		
28	Permeation tubes (SO ₂ , NO-NO ₂ -NO _x , NH ₃ , BTX)	Yes		

C. List of Equipment required for processing of Environmental Samples:

a) Mandatory Requirements

1	Accelerated Solvent Extraction (ASE) System	No	31 Months	Specification Finalized
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	6260	Yes		
11	Cyanide Distillation Assembly (3)	No	No	No	Outsourced
12	Deep Freezer- Capacity 500 litre	Yes			
13	Laboratory Ball Mill Grinder	No	31 Months		Specification Finalized
14	Laboratory Grinder	No	31 Months		Specification Finalized
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)	No	No	No	Outsourced
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)	No	No	No	Outsourced
29	Arsenic / Fluoride Glass Distillation assemblies	No	No	No	Outsourced
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.	6261	Yes		
37	Rotary Evaporator (Buchi type) with water recirculating chiller		Yes		
38	Separating funnel shaker		Yes		
39	Soxhlet Apparatus		Yes		
40	Solid Phase Extraction (SPE) /SPME Extraction system		Yes		
41	Thermometer (Alcohol)		No	31 Months	Specification Finalized
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		No	No	Outsourced
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		No	No	Outsourced
5	Colony counter		Yes		
6	Conductivity meter- 2 nos.		Yes		
7	Environment conditioning chamber		Yes		
8	Digital Burettes- 50 ml*2, 100 ml*2		Yes		
9	Dissolved Oxygen Meter (Bench model)		Yes		
10	Flame Photometer		Yes		
11	Flash Point Apparatus		Yes		
12	Gas Chromatograph Mass Spectrometer		No	No	Outsourced
13	High Performance Liquid Chromatograph (HPLC)		No	No	Outsourced

14	Inductively Coupled Plasma (ICP) Spectrometer-OES	6262 ^{es}		
15	Ion Chromatograph Anion & Cations	Yes		
16	Methane and Non Methane (NMHC) Analyzer	No	No	Outsourced
17	Microscope – 100x	Yes		
18	Microscope Binocular Research	Yes		
19	CO (NDIR based) Analyzer	Yes		
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	No	No	Outsourced
3	EDXRF Analyzer/WDXRF Analyzer	No	No	Outsourced
4	Fourier-transform infrared Spectrometer (FTIR)	No	No	Outsourced
5	Flocculator (Jar testing apparatus)	No	No	Outsourced
6	Toxic Gas Analyzer	No	No	Outsourced
7	Organic Halogen (AOX/TOX) Analyzer	No	No	Outsourced
8	TOC Analyzer	No	No	Outsourced
9	High Resolution Mass Spectrometer (HRGC-HRMS)	No	No	Outsourced
10	Inductively Coupled Plasma Mass (ICP-MS) Spectrometer	No	No	Outsourced
11	X Ray Fluorescence (XRF) Spectrometer (Portable)	No	55 Months	Specification Finalized

		6263		
	Specific remarks, if any:			

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

[illegible]

Laboratory 1	Central Laboratory, Meghalaya State Pollution Control Board, Shillong									
Laboratory 2	ABNS Scientific Services Private Limited, H-152, Keteki Path, Near Radison Blu, NH-27, Guwahati-781003, Assam									
Laboratory 3	Mitra S.K. Private Limited, House No 9, 2nd Floor, Arunachal Path, RG Baruah Road, (Zoo Road, Tiniali) Guwahati-781021, Assam									
Laboratory 4	Envirocon, IOCL (AOD) New Market, PO Digboi District: Tinsukia, Assam-786171									
Specific remarks, if any:										

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

Laboratory established by the Board, as per Section 17 (2) of Air Act – Nos.				Laboratories / Institutes specified by State Govt., as State Air Laboratory as per Section 28 (1) of Air Act (other than those set up by Board) - Nos								NABL Accreditation			EPA Recognition		
No. of Laboratori es established / recognised	No. of Laboratori es (out of those given in column No. (1)) notified in Official Gazette	No. of remaining Laboratori es Planned for Notificatio n (out of those laboratorie s given in column No.(1)).	Time line required for notificatio n of Laboratori es given in column No. (3) (in months)	No. of Laboratori es established / specified		No. of Laboratori es (out of those given in column No. (5 & 6)) notified in Official Gazette		No. of remaining Laboratori es Planned for Notificatio n (out of those laboratorie s given in column No. (5 & 6)).		Time line required for notification of Laboratori es given in column No. (9 & 10) (in months)		No. of Board's Laboratori es 17 (2)	No. of State Water Laboratori es 28(1)		No. of Board's Laboratori es 17 (2)	No. of State Water Laboratori es 28(1)	
				Govt.	Pvt.	Govt.	Pvt.	Govt.	Pvt.	Govt.	Pvt.		Govt.	Pvt.		Govt.	Pvt.
-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12	-13	-14	-15	-16	-17	-18
4	1	3	6	1	-	1	-	-	-	-	-	4	1	-	0	1 Under Proces s	-
Note: The list of the laboratory may be attached separately (Board, State Govt. and Private)																	
Laboratory 1		Central Laboratory, Meghalaya State Pollution Control Board, Shillong															

Laboratory 2	ABNS Scientific Services Private Limited, H-152, Keteki Path, Near Radison Blu, NH-27, Guwahati-781003, Asam									
Laboratory 3	Mitra S.K. Private Limited, House No 9, 2nd Floor, Arunachal Path, RG Baruah Road, (Zoo Road, Tiniali) Guwahati-781021, Assam									
Laboratory 4	Envirocon, IOCL (AOD) New Market, PO Digboi District: Tinsukia, Assam-786171									
Specific remarks, if any:										

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	33rd Exercise	34th Exercise	35th Exercise	36th Exercise	33rd Exercise	34th Exercise	35th Exercise	36th Exercise			
1	Meghalaya State Pollution Control Board (MSPCB)	9	11	Not Participated	18	9	11	Not Participated	18	44.94	59.09	Not Participated	72.22			
2																
3																
4																
5																
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																
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
(Information to be given for last 3 years)

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, Meghalaya State Pollution Control Board, Shillong	2022	Green Economy Initiative Pvt Ltd	7	5	5
			Enviro Care Pvt Ltd	2	2	2
			Global PT Provider Pvt Ltd	13	13	10
			Global PT Provider Pvt Ltd	12	12	12
		2023	Green Economy Initiative Pvt Ltd	7	5	5
			Global PT Provider Pvt Ltd	13	13	11
		2024	Green Economy Initiative Pvt Ltd	7	5	5
			Global PT Provider Pvt Ltd	18	18	15
2.	ABNS SCIENTIFIC SERVICES IIVT. LTD. Keteki Path, Gotanagar, Tertelia, Guurahati, Assam 7 810 Ll.	2025	1. Green Economy Initiative:s Private Limited 215 Silver City I.Mainl, Ambala Chandigarh Expressway, Nll-22, District Mohali, Zirakpur, Punjab 140603.	32	32	31
			2. SCS Enviro Services Pvt. Ltd. 7, KESAR VIHAI, OPP KL{ATU S}-{YAM il TEMPLE, Ram Nagariya !ld, Jagarpura, Jarpur, Ra;asthan 302017.	8	8	7
		2026	1. EFRAC Synthesis Busin ess Park CBD /1, llnit * 2-C/8, 2nd Floor, Action Area Il Rajarhal, New'l-ovvn, Kolkata 700 151	4	4	4

3.	ENVIROCON Digboi Stores Building, IOCL AOD New Market, Digboi - 786171, Assam	2025	1. Green Economy Initiatives Private Limited 215 Silver City (Main), Zirakpur, Dist.: SAS Nagar (Mohali), Punjab- 140603	36	8	8
			2. SCS Enviro Services Pvt. Ltd. 7, Kesar Vihar, Ramnagariya Road, Opposite Khatushyamji Temple, Jagatpura, Jaipur - 302017, Rajasthan	36	22	22
4.	Mitra S K Private Limited H. No 9, 2nd Floor, Arunachal Path, R.G Baruha Road, Guwahati, Assam 781021	2025	1. GREEN ECONOMY INITIATIVES PRIVATE LIMITED GREEN ECONOMY INITIATIVES PRIVATE LIMITED, 215 Silver City, (Main), Zirakpur Mohali, Punjab India	10	148	19
			2. ENVIROCARE LABS PRIVATE LIMITED A7,-A8, MIDC, Wagle Industrial Estate, Main Road, Thane,- 400604	2	38	2
			3. SCS ENVIRO SERVICES PVT. LTD. 7, KESAR VIHAR, OPP KHATU SHYAM JI TEMPLE, Ram Nagariya Rd, Jagatpura, Jaipur, Rajasthan 302017	23	10	12
Specific remarks, if any:						

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amit singh <semasingh.office@gmail.com>

O.A. No. 693 of 2023: News Item titled "Pollution Control Boards are the weak link" appearing in Deccan Herald dated 24.10.2023

1 message

amit singh <semasingh.office@gmail.com>

Thu, Jul 16, 2026 at 7:36 PM

To: Abhimanyu Garg <abhimanyu.legal@gmail.com>, Ramesh Pukhrambam <ramesh1pukhrambam@gmail.com>, "raghav@srcolegal.in" <raghav@srcolegal.in>, urnimakrishna10@gmail.com, lawchambers@sgovil.com, arschauhan.co@gmail.com, amit_chauhan001@hotmail.com, secy-moef@nic.in, cb.cpcb@nic.in, membersecretarygpcb@gmail.com, ms-gpcb@gujarat.gov.in, ms@kspcb.gov.in, msdpcc@nic.in, net.wbpcbwb@bangla.gov.in, ms@mpcb.gov.in, mspcb-hp@nic.in, ms@uppcb.in, Pradeep Misra <pradeepmisra@yahoo.com>, ram73a@gmail.com, tilak@dbaijallaw.in

Dear Sir,/Madam

Kindly Find attached scanned copy of Affidavit being e- filed on behalf of Meghalaya State Pollution Control Board. which is being served in advance copy as proof of service.

Thanking you.

Best Regards,
Ms. K. Enatoli Sema Adv.
(Clerk)
Rahul 7503630697

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Office of Mr Amit Kumar Singh & Ms.K.Enatoli Sema,
Advocates-on-Record,
House No.60,
High Court Judges Colony,
H.G-03,
Sector 105,
Noida -201301.
U.P.
Mobile + 91 9818139636.
Phone (0120) 4926002

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