

Meghalaya State Pollution Control Board

Forests & Environment Department, Government of Meghalaya

'ARDEN' Lumpyngngad, Shillong - 793014

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



No. MPCB/GEN-285/ANNEXED- IX B)/2024-2025/31

Dated Shillong the 23th July 2024

To,

The Secretary
Government Of India
Ministry of Jal Shakti
Department of Water Resources, River Development & Ganga Rejuvenation
Shram Shakti Bhawan
Rafi Marg, New Delhi -110001
(Email: ruby.raju@nmcg.nic.in)

Sub: Submission of Monthly Progress Report for ensuring compliance to the Hon'ble NGT matter OA No 673/2018 for the month of April to June 2024

Sir

With reference to the above, please find enclosed herewith the Monthly Progress Report for the month of April to June 2024 for favour of your kind information & necessary action.

Enclo : As stated

Yours faithfully

(SHRI. G.H.CHYRMANG)
MEMBER SECRETARY
MSPCB, SHILLONG

Memo. No. MPCB/GEN-285/(Annexed -IX B)/ 2024-2025/31-# Dated Shillong the 23th July 2024

Copy to:-

1. Shri. P.K.Mishra, DH, WQM-I, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi – 110032 for his kind information. Email: eeepkm.cpcb@nic.in/suniti.cpcb@gov.in
2. The Principal Chief Conservator of Forest (Working plan ,Research & Training) cum Chairman of River Rejuvenation Committee ,Meghalaya, Shillong-793001 for his kind information
3. The Director of Urban Affairs cum Member Convener of the RRC ,Meghalaya, Shillong for information

o/c

(SHRI. G.H.CHYRMANG)
MEMBER SECRETARY
MSPCB, SHILLONG

NATIONAL MISSION FOR CLEAN GANGA

FORMAT FOR SUBMISSION OF MONTHLY PROGRESS REPORT IN THE NGT MATTER OA NO.673 OF 2018 (IN COMPLIANCE TO NGT ORDER) DATED 24.09.2020 FOR THE MONTH OF APRIL TO JUNE 2024 FOR THE STATE OF MEGHALAYA

Overall status of the State:

- I. Total Population: Urban Population & Rural Population : (5,95,450 & 23,71,439)29,64,007
- II. Estimated Sewage Generation (MLD)(2025) : 51 MLD in Urban areas (Including Census Towns)
- III. **Details of Sewage Treatment Plant** :
- Existing no of STPs and Treatment Capacity (MLD) : 13
 - Capacity Utilization of existing STPs (MLD) : 2.006
 - MLD of Sewage being treated through alternate technology : 22.98 (Other forms of treatment of septic tank)
 - Gap in treatment Capacity in MLD : 49.005 (13.61 MLD - Ongoing Project & 21.5 MLD- propose for treatment under SBM 2.0, Urban)
 - No of operational STPs : 13
 - No of complying STPs : 13
 - No of Non-complying STPs : -

Details of Each Existing STP in the State

SN	Location	Existing STP Capacity MLD	Capacity being utilised MLD	Operational Status of STP	Compliance status of STP
1	Residential colony of Meghalaya Cements Ltd., Thangskai, East Jaintia Hills District	0.1	0.06	Operational	Complying
2	Residential colony of Star Cements Ltd., Lumshnong, East Jaintia Hills District	0.4	0.239	Operational	Complying
3	North Eastern Indira Gandhi Regional Institute of Health and Medical Sciences, Mawdiangdiang	1	1	Operational	Complying
4	Residential colony of M/S Lafarge Umiam Mining Pvt. Ltd., Nongtraï	0.12	0.03	Operational	Complying
5	Residential School –JNV, Mawphlang	0.1	0.02	Operational	Complying

6	Polo Market ,Shillong	0.05	0.05	Operational	Complying
7	Green valley industries Ltd ,Nongsning,EJH	0.03	0.03	Operational	Complying
8	Dalmia Cement (Bharat) Ltd,Thangskai,EJH	0.05	0.04	Operational	Complying
9	Septage Treatment plant,Shillong	0.115	0.06	Operational	Complying
10	FSTP Marten, Shillong	0.115	0.115	Operational	Complying
11	FSTP Doldegre, Tura.	0.05	0.05	Operational	Complying
12	FSTP Resubelpara Municipal Board.	0.03	0.03	Operational	Complying
13	FSTPBaghmara Municipal Board	0.015	0.015	Operational	Complying

Liquid Waste management (LWM) facilities already constructed and LWM facilities under construction in Shillong & Jowai Towns

Shillong				
SN	Location	No of in-situ nullah Treatment Plants	Present Status % of construction	Remarks
1	Pomdngiem Drain (also referred as Wah Thangsniang Drain)	1	100% completed	Processing of Installation of water treatment Infra is ongoing
2	Oakland Drain	1	100% completed	
3	Lawmali Drain	1	100% completed.	
4	Wahingdoh – Raimohan Drain	1	100% completed	
5	Polo Drain	1	100% completed.	
Jowai				
SN	Location	No of in-situ nullah Treatment Plants	Present Status % of construction	Remarks
1	SyntuKsiar (near Myntwa Stream)	1	87%	
2	Panaliar	1	95%	
3	Caroline Colony	1	95%	
4	Ladthadlaboh west	1	95%	
5	Khimusniang	1	92%	
6	Umshangiar	1	85%	
7	lawmusniang	1	90%	

8	Mynthong1	1	90%	
9	Mynthong2	1	85%	
10	PanaliarMutong	1	90%	
11	Liar KdongtreriatPanaliar	1	85%	

Details of under construction FSSMs/FSTPs in the State

SN	Name of ULBs	No of Treatment Plants	Capacity	Status Present Status	Remarks
1	Shillong Municipal Board	1	0.35 MLD	95%	Civil Works completed and awaiting power connection
2	Jowai Municipal Board	1	50KLD	95%	Civil Work Completed awaiting power connection
3	Williamnagar Municipal Board	1	30 KLD	95%	Civil Work Completed awaiting power connection
4	Faecal Sludge & Septage management ,Khliehriat	1	0.04 MLD	95%	To be made operational.

Details of under construction STPs in the State

SN	Location	No of Treatment Plants	Capacity	Present Status	Remarks
1	Municipal filling point, Kenches Trace	1	3.17 MLD	95%	Civil Works Completed and awaiting for power supply connection and consent to operate from the MSPCB
2	Junction of Wahingdoh and Umkhrah	1	7.12 MLD	95%	
3	Junction of Wahdasoi and Umkhrah	1	0.85 MLD	95%	
4	By the site of Wahpomdngiem behind SMB Complex at Bishop Cotton Road	1	2.00 MLD	95%	
5	Junction of Wahthangnsiang and Umkhrah	1	0.28 MLD		Yet to start because of land ownership issues

IV. Details of Industrial Pollution

- No. of industries in the State : 1559
- No. of water polluting industries in the state : 260
- Quantity of effluent generated from the industries in MLD : 3.5
- Quantity of hazardous sludge generated from the industries in TPD : 1.3105
- No. of industrial units having ETPs : 255
- No of Industrial units connected to CETPs : Nil
- Compliance status of the ETPs : Complying
- No and total capacity of CETPs (details of existing/under construction /proposed) : Nil
-

Town	No of Industries	Industrial discharge (MLD)	Status of ETPs	Status of CETPs(existing, under construction &proposed)
Shillong	221	1.9	Complying	-
Byrnihat	30	0.69	Complying	-
Nongstoin and Mairang	8	0.13	Complying	-
Ladrymbai&Khliehriat	12	0.02	Complying	-
Jowai	28	0.95	Complying	-
Khliehriat,Myndihati&Lumshnong	11	0.15	Complying	-
Tura	24	0.30	Complying	
Umiam	15	0.1	Complying	-

STATUS OF ULB WISE MANAGEMENT OF SOLID WASTE

V. Solid Waste Management

- Total number of Urban Local Bodies and their Population : 10 Nos, 440,690
- Current Municipal Solid Waste Generation : 214 TPD
- Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg. Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), biomethanation, MRF etc.: Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap> 20%):

EXISTING SWM PLANTS IN MEGHALAYA						
SN	Town	Facility Type	Installed Capacity	Nos.	Utilization	Action Plan to utilise installed capacity
1	Shillong	Waste to Recovery centre	8 TPD	4	6 TPD (3 TPD Organic Compost + 3 Recyclables)	All 4nos. are made operational.
2.	Tura	Waste to Compost	40 TPD	1	0 TPD	Yet to be made operational
3	Nongpoh	Waste to Compost	15 TPD	1	0 TPD	Yet to be made operational
4	Shillong	Waste to Compost	170 TPD	1	60 TPD	The plant is 100% operational
5	Khliehriat	Composting Plant	0.1 TPD	1		Completed and is on trial stage.

- No. And capacity of C & D waste processing plants in TPD (Existing, proposed and under construction):
None
- Total no. Of wards, having door to door collection service, no. Of wards practicing segregation at source:
- **97 wards have door to door collection service; 75 wards practicing segregation at source.**
- Details of MSW treatment facilities proposed and under construction (no. Capacity, and technology):

PROPOSED SWM PLANTS IN MEGHALAYA				
SN	Town	Facility type	Proposed capacity TPD	Nos.
1	Shillong Municipal Board	Decentralized Processing Units	25	1
3	Tura Municipal Board	Decentralized Processing Units	10	-
4	Nongstoin Town Committee	Decentralized Compost Plant	7	1
5		Decentralized Processing Units	4.5	-
6	Jowai Municipal Board	Decentralized Compost Plant	6	1
7		Decentralized Processing Units	4	-
8	Williamnagar Municipal Board	Decentralized Compost Plant	5.5	1
9		Decentralized Processing Units	3.5	-
10	Resubelpara Municipal Board	Decentralized Compost Plant	4.5	1
11		Decentralized Processing Units	3	-
12	Mairang Town Committee	Decentralized Compost Plant	3.5	1
13		Decentralized Processing Units	2	-
14	Nongpoh Town Committee	Decentralized Compost Plant	3	1
15		Decentralized Processing Units	2	-
16	Baghmara Municipal Board	Decentralized Compost Plant	3	1
17		Decentralized Processing Units	2	-
18	Khliehriat& Jowai	Solid Waste processing & Disposal Facility to cater to both Jowai & Khliehriat	10	1

Projects approved under SBM (U) for Solid Waste Management

Name of ULBs	Wet Waste Processing (Compost Plant) Quantity in TPD	Dry Waste Processing (MRF) Quantity in TPD	Sanitary Landfill Site Quantity in TPD	Dumpsite Remediation Quantity in TPD
Shillong Municipal Board	0	25.00	15.00	0
Tura Municipal Board	0	10.50	6.00	10000
Nongstoin Town Committee	7.00	4.50	2.50	0
Jowai Municipal	6.00	4.00	2.00	54000

Board				
Williamnagar Municipal Board	5.50	3.50	2.00	30000
Resubelpara Municipal Board	4.50	3.00	1.50	29000
Mairang Town Committee	3.50	2.00	1.50	0
Nongpoh Town Committee	3.00	2.00	1.00	10000
Baghmara Municipal Board	3.00	2.00	1.00	10000
Shillong Cantonment Board	0	2.00	0.00	0
Total	32.5	58.5	32.50	143000

- No. And area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills:

Current status of setting up Sanitary Land fills sites in various ULBs in Meghalaya

Towns	District	Location	Area	Progress	Remarks
Shillong	East Khasi Hills	Nonghali (new and Alternate Site)	200 Acre	1. Land Survey completed. 2. Environment Impact Assessment (EIA) is under progress.	1. The site at Nonghali has been identified after more than 7 years of continuous effects from the Government to set up an alternate SLF. 2. The sites shall cater to Shillong Agglomeration and its peripherals, Jowai and other Towns till the time those peripherals, Jowai and other towns till the time that a proper Sanitary Landfill Site is in place in other Towns of Khasi Hills.
		Marten (existing and old but functional)		It is currently being used	Bio Remediation of 155,600 Tons of Legacy Waste in an area of 4Acre in Marten has been started.
Jowai	West Jaintia Hills	--	--	New Expression of interest floated on 8 th June 2023	
Tura	West Garo Hills	Wakkagre	9 Acre	Direct Purchased which 1.5 Crore was paid	
Williamnagar	East Garo Hills	Rongakgre	37 Acre	Proposal moved to Government by Director, Urban Affairs to go for Direct Purchased	
Resubelpara	North Garo	ElachiApal	14 Acre	Awaiting for approval from the Directorate	

	Hills			on the Site Finalization	
Baghmara	South Garo Hills	Arapara	15 Acre	Awaiting for approval from the Directorate on the Site Finalization	

VI. Bio-medical Waste Management:

- Total Bio-medical generation:**2840.66 Kg/day**
- No. of Hospitals and Health Care Facilities:**1066**
- Status of Treatment Facility/CBMWTF:

- Common Bio-Medical waste treatment is completed and is in operation.
- The Urban Affairs has procured three Bio-medical Wastes vehicles solely for transport of Bio-medical Wastes

VII. Hazardous Waste Management:

- Total Hazardous Waste generation:**498.4434 KL/annum**
- No. of Industries generating Hazardous waste: The following 19 (Nineteen) units are authorised under the hazardous & other waste(Management &Transboundary Movement) Rules ,2016. waste

- M/s Star Cement Ltd., Lumshnong, EJH District
- M/s Star Cement Meghalaya Ltd., Lumshnong, EJH District
- M/s Megha Technical Engineers Pvt. Ltd., Lumshnong, EJH District
- M/s Dalmia Bharat (Cement) Ltd, Thangskai, EJH District
- M/s Meghalaya Cements Ltd., Thangskai, EJH District
- M/s Amrit Cements Ltd., Umlaper, EJH District
- M/s Green Valliey Industries Ltd., Nongsning, East Jaintia Hills District
- M/s Goldstone Cement Ltd., Musiang Lamare (Old), East Jaintia Hills District
- M/s Hills Cement Company Ltd., Mynkre , East Jaintia Hills District
- M/s CMJ Breweries Pvt. Ltd., Extended EPIP, Byrnihat, Ri-Bhoi District
- M/s Shyam Century Ltd., EPIP, Byrnihat, Ri-Bhoi District
- M/s Maithan Alloys Ltd., EPIP, Byrnihat, Ri-Bhoi District
- M/s NTL Steels, EPIP, Byrnihat, Ri-Bhoi District(**Galvanising Unit**)
- M/s Nezone Pipes & Structures, Extended EPIP, Byrihat, Ri-Bhoi District(**Galvanising Unit**)
- M/s Godrej Consumers (P) Ltd., 15th Mile, Byrnihat, Ri-Bhoi District
- M/s Pioneer Carbide (P) Ltd., Upper Baliyan, Umtru Road, Byrnihat, Ri-Bhoi District
- M/s Lafarge Umiam (P) Ltd, Nongtra, East Khasi Hills District

18. M/s Meghalaya Power Ltd., Lumshnong, East Jaintia Hills District (8MW)

19. M/s Meghalaya Power Ltd., Lumshnong, East Jaintia Hills District (43 MW)

- Treatment Capacity of all TSDF's: **Not available**
- Avg. Quantity of Hazardous waste reaching the TSDF's and Treated : **Nil**
- Details of on-going or proposed TSDF: **Types of hazardous wastes generated are recyclable & Landfillable. All the recyclable hazardous waste generated are either sold to the registered CPCB recyclers or reuse by the Industria units as lubricants or as fuel particularly by Cement plants. It may be informed that out of these ,there are 2 Galvanishing Units producing landfillable hazardous wastes in the state of Meghalaya. Since there is no common Hazardous waste Treatment& Disposal facilities in the entire North East Region, these units have established their own in-house disposal facility for such wastes provided with a proper covered cemented floor and liner on top to prevent contamination of soil and underground water.**

VIII. Plastic Waste Management:

- Total Plastic Waste generation: **2223.6 TPA**
- Treatment/Measures adopted for reduction or management of plastic waste:
 - (a) The plastic wastes are collected as municipal waste. The plastic waste was segregated from the dry waste at the dumpsite and collected for compaction and bailing and send to Cement Plants for co-processing to be used as Fuel .
 - (b) Used for roadmaking in some parts of Tura, and Nongstoin.
 - (c) Recyclable plastic send for recycling to Assam by Tura Municipal Board .

IX. Details of Alternate Treatment Technology being adopted by the State/UT:

X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment:

XI. Details of Nodal Officer appointed by Chief Secretary in the State/UT: **The Government has constituted a Monitoring Committee under the chairmanship of the Principal Secretary to the Govt. of Meghalaya, Forests & Environment Department vide no. ENV.4/2018/426 Dated Shillong the 19th June 2020**

XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:

XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river: **Enclosed as II A to Annexure IX B**

XIV. Ground water regulation: **For Domestic purpose – District Level Committee Ground Water Resource (Deputy commissioner of respective District as Chairman and official of Water resources as Member Secretary) looks after it and grant NOC For Commercial purpose - State Level Committee Ground**

Water Resource (Commissioner & Secretary, Water Resources as Chairman and Regional Director, CGWB, NER, as Member Convener) looks after it and grant NOC.

- XV. Good irrigation practices being adopted by the State: **Traditional Bamboo Drip Irrigation**
- XVI. Rain Water Harvesting: (a) Rain water harvesting implemented for Schools and government buildings. (b) Incorporated as one of the condition while giving permission for any house construction
- XVII. Demarcation of Floodplain and removal of illegal encroachments: (a) **Network design including the proposed additional installation submitted. Field Survey report of Umkhrah, Nonbah, Umtrew and Myntdu have been submitted and various inputs for catchment models have also been prepared .80% of the work have been completed.**
(b) **Setting up of HO stations was completed .Hydro-meteorological data from the installed instruments have been collected and compiled for the month of July**
(c) **The rain gauges and staff gauges have been installed in all the four study river basins and data collection was initiated from 1st May 2022.**
(d) **Flood models of Umkhrah, Nonbah, Umtrew and Myntdu have been simulated for 2,5,10,25,50, and 100 years return period floods and team is reviewing the results.**
(e) **Calibration of flood models for different flood events have been started .Method to estimate areal rainfall from observed point rainfall is being analysed.**
(f) **Major work of Draft Feasibility Study Report is completed in July 2022.**
(g) **Flood inundation scenarios with and without considering the flood protection at various locations in Umkhrah, Nonbah, Umtrew and Myntdu have been generated .**
(h) **Draft report on Flood Plain Zoning and Flood Mitigation Measures has been submitted and is under review by the Department**
- XVIII. Maintaining minimum e-flow of river: **Perennial rivers**
- XIX. **Plantation activities along the rivers:** Creation of Temporary nursery and preliminary works completed for the catchment area of Nonbah river. 1800 sapplings planted in the catchment of Umkhrah covering an area of 3.5 km. 500 sapplings planted in the catchment of Umtrew covering an area of 0.5 Ha.
- XX. Reuse of Treated Water: **Stand-alone ETPs are operational in 260 number of hotels/guesthouse/health care centers /Industries and treated wastewater are reuse for gardening/cleaning purpose.**
i. **Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:**

- XXI. Status of Preparation of Action Plan by the 13 Coastal States:**Not applicable to the State of Meghalaya**
- XXII. Regulation of Mining Activities in the State/UT:**Mining activities in the State is being regulated under the following acts and rules**
- a) **Mines and Minerals (Development and Regulation) Act 1957 and its subsequent amendments**
 - b) **EIA notification ,2006 and its subsequent amendments**
 - c) **Meghalaya Minor mineral Concession Rules 2016 and its subsequent amendments**
 - d) **EP Acts,1986**
 - e) **The Air (Prevention and Control of Pollution)Act,1981 and the Water (Prevention and Control of Pollution)Act,1974**
- XXIII. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring:
- a) **Units which failed to comply to the consent conditions have been issued directions,show cause notice and closure notices**
 - b) **Units which have been operating without consent from the Pollution Control Board have been issued closure notices under relevant Acts and Rules**
 - c) **Filing of Complaints to the District Courts**

WATER QUALITY DATA OF POLLUTED RIVER STRETCHES – APRIL 2024

Stations → Parameters ↓	Umshyрпи		Umkhrah				Umtrew at Byrnihat	Nonbah at Nongstoin	Myntdu at Jowai	Lunar River (Tributary of Lukha River) at Myndihati	Kyrnhukhla River
	Near Law College	Umshyрпи Bridge	Demthring	Umkaliar	Near Slaughter House	Mawpdang					
pH	6.9	6.8	7.0	6.9	7.1	7.0	7.0	6.9	6.8	3.0	3.3
Dissolved Oxygen(mg/l)	Nil	3.6	Nil	4.2	Nil	Nil	7.0	6.3	6.4	6.2	5.8
Bio-chemical Oxygen Demand (mg/l)	53.0	19.0	38	9.5	49.0	44.0	2.6	2.7	2.4	2.6	2.9
Faecal Coliform (MPN/100ml)	58,000	7900	17000	7000	54000	49000	580	1200	790	<1.8	<1.8
Total Coliform (MPN/100ml)	220000	34000	79000	17000	200000	170000	4300	4900	4300	<1.8	<1.8
Faecal Streptococci (MPN/100m	21000	3300	4400	2300	17000	14000	270	480	430	<1.8	<1.8

WATER QUALITY DATA OF POLLUTED RIVER STRETCHES – MAY 2024

Stations → Parameters ↓	Umshyрпи		Umkhrah				Umtrew at Byrnihat	Nonbah at Nongstoin	Myntdu at Jowai	Lunar River (Tributary of Lukha River) at Myndihati	Kyrnhukhla River
	Near Law College	Umshyрпи Bridge	Demthring	Umkaliar	Near Slaughter House	Mawpdang					
pH	6.8	6.7	7.2	6.9	6.8	7.0	7.2	6.7	7.0	2.8	3.2
Dissolved Oxygen(mg/l)	Nil	4.2	Nil	5.2	Nil	Nil	7.2	6.7	6.9	7.0	6.7
Bio-chemical Oxygen Demand (mg/l)	46.0	12.0	30.0	8.8	43.0	40.0	2.3	2.6	2.0	2.1	2.4
Faecal Coliform (MPN/100ml)	49000	7000	14000	4900	48000	43000	450	1100	680	<1.8	<1.8
Total Coliform (MPN/100ml)	210000	28000	70000	14000	170000	150000	4000	4600	3800	<1.8	<1.8
Faecal Streptococci (MPN/100m	14000	3100	9200	2700	23000	21000	280	330	210	<1.8	<1.8

WATER QUALITY DATA OF POLLUTED RIVER STRETCHES – June 2024

Stations → Parameters ↓	Umshyрпи		Umkhrah				Umtrew at		Lunar River (Tribuary of Lukha River) at Myndhathi	Kyrthukhla River
	Near Law College	Umshyрпи Bridge	Denthring	Umkaliar	Near Slaughter House	Mawpdang	Byrnihat	Nonbah at Nongstoin		
pH	6.8	6.7	6.8	6.8	6.9	6.9	6.8	6.7	6.8	3.3
Dissolved Oxygen(mg/l)	4.4	5.9	5.0	6.3	4.8	4.6	7.0	7.3	7.4	7.0
Bio-chemical Oxygen Demand (mg/l)	21.0	9.6	12.0	4.2	15.0	17.0	2.0	1.9	2.0	2.3
Faecal Coliform (MPN/100ml)	31000	3300	13000	2700	21000	23000	430	790	390	<1.8
Total Coliform (MPN/100ml)	110000	12000	33000	7900	84000	94000	3500	4300	2800	<1.8
Faecal Streptococci (MPN/100m	7900	1100	4200	1200	8400	7900	210	280	170	<1.8