



NAGALAND POLLUTION CONTROL BOARD

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NPCB/NGT/OA No. 673/2018/44-52

Date: 27/02/2024

To

✓ The Secretary
Ministry of Jal Shakti
1st Floor, Major Dhyan Chand National Stadium
India Gate, New Delhi 110002

Sub: Monthly Progress Report for the month of December 2023 to February 2024 in compliance to Hon'ble National Green Tribunal Order dated 08.04.2019 in O.A No. 673 of 2018

Sir,

With reference to the subject cited above, I am enclosing herewith the Monthly Progress Report for the month of December 2023 to February 2024 in compliance of Hon'ble National Green Tribunal Order dated 08.04.2019 in O.A. No. 673 of 2018 for the state of Nagaland.

Thank you.

Yours faithfully,

Enclosed: As stated

(K. Hukato Chishi, IFS)
Member Secretary

NPCB/NGT/OA No. 673/2018/ ✓

Date: 27/02/2024

Copy to:

1. The Member Secretary, Central Pollution Control Board, Delhi for kind information.
2. The Commissioner & Secretary, Dept. of Environment, Forests & Climate Change, Nagaland for kind information.
3. The Chief Engineer, PHED, Kohima for kind information.
4. The Director, Urban Development Department, Nagaland for kind information
5. The Director, Industries & Commerce, Nagaland for kind information
6. The Principal Chief Conservator of Forests, Nagaland for kind information
7. Shri. M.K. Choudhury, Regional Director, CPCB Regional Directorate North East for kind information.
8. Ms. K. Enatoli Sema, Standing Counsel for the state of Nagaland, Supreme Court of India for kind information.

✓
(K. Hukato Chishi, IFS)
Member Secretary

National Mission for Clean Ganga
Format for submission of December 2023 to February 2024 Monthly Progress Report in
the NGT Matter OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020)

For the State of Nagaland

Overall status of the State:

I. Total Population: 22.8 lakhs

Urban Population (6,58,008) & Rural Population (16,21,992)

II. Estimated Sewage Generation (MLD): 91.2MLD

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD): 1 nos. 25.43 MLD at Dimapur
- Capacity Utilization of existing STPs: 12.6 MLD
- MLD of sewage being treated through Alternate technology: Nil
- Gap in Treatment Capacity in MLD: Nil
- No. of Operational STPs: 1 no.
- No. of Complying STPs: 1 no.
- No. of Non-complying STPs: Nil

❖ Details of each existing STP in the State

❖ Sewage Treatment Plant at Dimapur was commissioned on 14th January 2023 and is fully functional.

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
1	Dimapur	25.43 MLD	12.6 MLD	Working	NGT O.A. 673/2018 compliant

STP (I&D) projects in Kohima

Under AMRUT 2.0, the Department has proposed for construction of Interception & Diversion projects (STP) at all the 4 major Streams/Drains in Kohima.

Details are given in the following table:

Sl. No	Name of the Project	Capacity
1	Sanuorü stream	2.43 MLD
2	Hospital stream	3.20 MLD
3	Dzüvürü stream	3.60 MLD
4	Lerie stream	1.20 MLD
	Total	10.43 MLD

Status of the project: The projects have been approved by the State High Powered Steering Committee (SHPS) for AMRUT 2.0 and is under submission to the Ministry of Housing and Urban Affairs for Approval of the Apex Committee. Meanwhile Detail Project Report (DPR) is under preparation. The project is expected to Commence by February 2024.

Details of proposed Sewage Treatment Plant in the State

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1	13 Urban Local Bodies	12.03 (total)	DPR on Sewage Treatment Plant for 13 ULBs has been submitted to National River Conservation Directorate by Public Health Engineering Department	-

STP not yet sanctioned due to paucity of fund as per information received from MoJS

Details of proposed Feecal Sludge Treatment Plant in the State

No.	Location	Capacity of the FSTP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1	13 Urban Local Bodies	210 KLD (total)	DPR on Feecal Sludge Treatment Plant for 13 ULBs has been submitted to National River Conservation Directorate by Public Health Engineering Department, Govt. of Nagaland	-

FSTP not yet sanctioned due to paucity of fund as per information received from MoJS

➤ **FSTP at Meriema, Kohima**

In Kohima, there is an existing FSTP with a capacity of 90KLD has been constructed under ADB assisted programme. However the project is yet to be fully operational due to requirement of some retrofitting works (civil works).

Status of the project: The works are awarded and under execution which is expected to be completed by December, 2023. After which the Projects will be handed over to Kohima Municipal Council for operation.

➤ **Proposed FSTP under AMRUT 2.0**

Under AMRUT 2.0, the Department has proposed for construction of 150 KLD FSTP which will cover the whole Dimapur Municipal Council area and also the adjacent Villages.

Status of the proposed project: The project has been approved by the State High Powered Steering Committee (SHPS) for AMRUT and under submission to the Ministry of Housing and Urban Affairs for Approval of the Apex Committee. Meanwhile Detail Project Report (DPR) is under preparation. The project is expected to Commence by March/April 2024.

22,401 individual household latrines were converted from Insanitary to Sanitary Latrines/New construction under Swachh Bharat Mission in 19 ULBs till 2021 in the State. (Source Urban Development Department)

IV. Details of Industrial Pollution:

- No. of industries in the State: **1323 Nos.**
- No. of water polluting industries in the State: **18 Nos.**
- Quantity of effluent generated from the industries in MLD: **325 KLD**
- Quantity of Hazardous Sludge generated from the Industries in TPD: **2 MTA from Indian Oil Corporation Depot, Kevijau Colony, Dimapur, Nagaland.**
- Number of industrial units having ETPs: **17 Nos. & 1 unit under construction**
- Number of industrial units connected to CETP: **NIL**
- Number and total capacity of ETPs (details of existing/ under construction / proposed):

Existing Effluent Treatment Plant

Sl. No.	Name & Address	Installed Capacity (KLD)
1	DIMUL, Dimapur, Nagaland	10
2	Look East Construction Pvt. Ltd Slaughter House, Burma Camp, Dimapur	190
3	Greenply Industries Pvt. Ltd Tizit, Mon	0.5
4	KOMUL (Dairy) Kohima, Nagaland	5
5	Modern Abattoir (Slaughter House) Mokokchung, Nagaland	100
6	Okusa Automobile Dimapur, Nagaland	15
7	Nikos Hospital & Research Centre Dimapur, Nagaland	20
8	Zion Hospital & Research Centre Dimapur, Nagaland	30
9	CIHSR 4 th Mile, Dimapur, Nagaland	30
10	Eden Medical Centre Dimapur, Nagaland	50
11	District Hospital Dimapur	20
12	Dr. Motsu Memorial District Hospital	20
13	Dr. Imkongliba Memorial District Hospital	20
14	Phek District Hospital	10
15	Kiphire District Hospital	20
16	Mon District Hospital	20
17	Tuensang District Hospital	20
18	Slaughter House ** Kohima, Nagaland	400

** Slaughter house at Seithogei, Kohima is completed but the turnkey contractor M.S CESCO has written to Additional Director & HoD, Municipal Affairs for reconsideration/rectification of revenue sharing pattern in the MoU. As per the information received from the Administrator, Kohima Municipal Council.

Septage Management Plant

Sl. No.	Name & Address	Installed Capacity (KLD)
1	Dimapur Municipal Council Septage Management Plant	30 KLD
2	Kohima Municipal Council Septage Management Plant	90 KLD

- Compliance status of the ETPs: **All the ETPs are in operation and functioning properly.**
- Number and total capacity of CETPs (details of existing/ under construction / proposed): Nil
- Status of compliance and operation of the CETPs

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
Nil				

V. Solid Waste Management:

- Total number of Urban Local Bodies and their Population: **39ULBs with 6,19,972 population**
 - Current Municipal Solid Waste Generation: **301.44TPD**
- 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: **1No.**

Sl.no	Name of the ULBs	Generation (TPD)	Collection (TPD)	Processed per day (TPD)	Dumpsite
			87.5	0%	90% approx
1	Kohima	93	87	80	87 TPD
2	Dimapur	87	11	2	9 TPD
3	Wokha	13	14.5	0.002	14.5 TPD
4	Mokokchung	25	0.8	0.1	0.80 TPD
5	Mon	0.9	1	NA	1 TPD
6	Zunheboto	1	4.5	Nil	4.5 TPD
7	Tuensang	10	1.5	Nil	1.2 TPD
8	Peren	1.5	0.9	1.1	0.8 TPD
9	Longleng	2	0.0013	Nil	0.0013
10	Niuland	0.15	2.4	nil	80%
11	Chumoukedima	8	Nil	Nil	Nil
12	Shamator	1	1	0	1 TPD
13	Tseminyu	1	0.1	0	0.1 TPD
14	Noklak	0.2	2.7	Nil	2.7 TPD
15	Phek	3.3	1	Nil	1 TPD
16	Changtongya	3	0.0016	Nil	0.0016 TPD
17	Longkhim	0.956	1.6	NA	1.6TPD
18	Pfutsero	1.8	3.5	NA	3.5 TPD
19	Naginimora	3.5	Nil	Nil	Nil
20	Tizit	0.1	1.3	Nil	1 TPD
21	Chozuba	1.3	Nil	Nil	Nil
22	Chiephobozou	0.5	0.075	Nil	Not estimated
23	Atoizu	0.08	1.35	0	1.35 TPD
24	Medziphema	3			

Sl.no	Name of the ULBs	Generation (TPD)	Collection (TPD)	Processed per day (TPD)	Dumpsite
25	Tamlu	NA	Nil	Nil	Nil
26	Aboi	1	0.5	Nil	0.5 TPD
27	East Dimapur	2	2	NA	2 TPD
28	Tening	30	20	NA	1.4 TPD
29	Tuli	1.9	1.4	Nil	1.4 TPD
30	Mangkolemba	0.3	NA	Nil	0.3 TPD
31	Bhandari	1	0.74	Nil	Nil
32	Pungro	Not submitted	Not submitted	Not submitted	Not submitted
33	Tobu	0.20	0.2	NA	0.2 TPD
34	Meluri	0.5	0.5	Nil	0.5 TPD
35	Seyochung	0.16	Nil	Nil	NA
36	Aghunato	1	0.5	Nil	0.5 TPD weekly
37	Kiphire	Not submitted	Not submitted	Not submitted	Not submitted
38	Jalukie	Not submitted	Not submitted	Not submitted	Not submitted
39	Satakha	2.1	1.5	NA	1.5 TPD
Total		301.44	263.56	83.2.02	

- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%): NA
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction): Nil
- Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source

Sl. no	Name of the ULBs	Good practices in cities/towns	House to house collection	Segregation	Storage	Covered transportation
1	Kohima	Kohima Municipal Council have decentralized waste management in all the 19 ward/colonies and have formed 19 wards sanitation committees for primary waste management and collection. It has declared community bins free in all the 19 wards	Yes 70 %	Yes	Yes	Yes
2	Dimapur	Bio – remediation & Biomining	Yes 27,950 households	NA	Yes	Yes
3	Wokha	-	Yes 7,668 households	NA	Yes	Yes
4	Mokokchung	-	Yes 9,865 households	No	No	Yes
5	Mon	-	Yes 1,572 households	Yes	NA	Yes
6	Zunheboto	-	Yes sanitation vehicle	No		

Sl. no	Name of the ULBs	Good practices in cities/towns	House to house collection	Segregation	Storage	Covered transportation
			plying every motorable road of every ward		No	Yes
7	Tuensang	-	Yes 8,665 households	No	Yes	Yes
8	Peren	Plastic banks, mobile storage bins for every household for proper and effective collection and disposal	Yes 8,665 households	Yes	Yes	Yes
9	Longleng	Yet to initiate	Yes, NA	Yes 20 %	Yes	Yes
10	Niuland	-	No	No	No	No
11	Chumoukedima	-	Yes, 100 %	Yes	Yes	Yes
12	Shamator	-	No	No	No	No
13	Tseminyu	-	Yes, 1700 households	No	No	Yes
14	Noklak	-	Yes, 80 households	No	No	No
15	Changtongya	-	Yes, nil	Yes 30 %	No	Yes
16	Longkhim	Compost pit in every households for disposing biowaste	No	Yes	Yes	No
17	Pfutsero	Plastic banks, food bank, community engagement in solid waste management, regular public sensitization programme on solid waste management, IEC on solid waste management	Yes 2183 households	NA	Yes	Yes
18	Naginimora	-	No	NA	No	Yes
19	Tizit	-	Not implemented	Nil	Nil	No
20	Chozuba	-	Yes, 850 households	NA	NA	Yes
21	Chiephobozou	-	No	No	No	No
22	Phek	-	Yes, 2979 households	No	No	Yes
23	Atoizu	-	No	No	No	No
24	Medziphema	-	Yes, 2000 households	No	No	Yes
25	Tamlu	-	No	No	No	No
26	Aboi	The dumpsite was dug out 70 x 20 x 10 ft pit and once it is filled, the adjacent area of bigger area will be dug to fill in, likewise, once the second is filled, the third area will be dug for the same. After which the first pit will be dug for use so it will be used in a cyclic manner.	Yes, nil	No	No	No

Sl. no	Name of the ULBs	Good practices in cities/towns	House to house collection	Segregation	Storage	Covered transportation
27	East Dimapur	-	Yes, 1332 households	DNA	DNA	Yes
28	Tening	-	No	NA	NA	No
29	Tuli	-	Yes, 2130 households	No	No	Yes
30	Mangkolemba	Yet to initiate	Yes, 1023 households	NA	NA	Yes
31	Bhandari	The Bhandari Town Council has initiated one club with a vision to make Bhandari Town a zero waste generation town. The club members will voluntarily conduct sensitization program at the ward level from time to time to teach about SWM to keep the town clean.	No	No	No	No
32	Pungro	Not submitted	Not submitted	Not submitted	Not submitted	Not submitted
33	Tobu	-	No	No	No	No
34	Meluri	-	Yes, 1107 households	No	No	Yes
35	Seyochung	-	No	No	Nil	No
36	Aghunato	-	No	No	Yes	No
37	Kiphire	Not submitted	Not submitted	Not submitted	Not submitted	Not submitted
38	Jalukie	Not submitted	Not submitted	Not submitted	Not submitted	Not submitted
39	Satakha	-	No	Yes 50 %	Yes	Yes

- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology): Nil
- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills:
38 nos. of dumpsites and 1(one) sanitary landfill at Kohima.
- No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers:
1 no. at Dimapur (29 bighas) at Sunrise Colony, Burma Camp. Bioremediation has been done since 2019 for the treatment of legacy waste and fresh solid waste.
- No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers:
River Dhansiri: 3 major drains namely, Lengri nullah, Sugar mill nullah & Hospital nullah connects river Dhansiri at the downstream.
A leachate treatment plant of 75 KLD capacity is installed at the Kohima Sanitary landfill site for proper leachate treatment before disposal.

Status of ULB wise Management of Solid Waste

ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
39	301.44TPD	83.202	1 at Kohima	50 TPD processing facilities with landfill life of 25 years	Nil

VI. Bio-medical Waste Management:

- Total Bio-medical generation: 959.52 kg/day
- No. of Hospitals and Health Care Facilities: 735 HCFs including non bedded HCFs
- Status of Treatment Facility/ CBMWTF: There are five captive treatment plants i.e. at Naga Hospital Authority Kohima, District Hospital Phek, Dr. Imkongliba Memorial Hospital Mokokchung, District Hospital Dimapur and Zion Hospital & Research Centre. All district hospitals and bedded hospitals have deep burial, sharp pits, microwave and autoclave facilities for treatment and disposal of biomedical wastes. However, there is no CBMWTF available in the State.

VII. Hazardous Waste Management:

- Total Hazardous Waste generation: 11.14 Metric tonnes/annum (Spent/used oil)
- No. of Industries generating Hazardous waste: 375 units of automobile workshop generating spent oil/used oil. This spent oil is transported to Assam for recycling.
- Treatment Capacity of all TSDFs: Not available
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated: Not available
- Details of on-going or proposed TSDF: Not available

VIII. Plastic Waste Management:

- Total Plastic Waste generation: 342.89 TPA
- Treatment/ Measures adopted for reduction or management of plastic waste:
 - (i) The Govt. of Nagaland in line with the Central Govt. vide. Notification no. 11th March 2022 has banned identified Single Use Plastics w.e.f. 1st July 2022.
The following Single-use plastic products are totally banned in the state:
 - a) Plastic carry bags less than 120 microns in thickness
 - b) Ear buds with plastic sticks
 - c) Plastic sticks for balloons
 - d) Plastic flags
 - e) Candy sticks
 - f) Ice cream sticks
 - g) Poly-styrene (thermocool) for decoration
 - h) Plastic plates, plastic cups, cutlery such as forks, spoons, knives, straw & trays
 - i) Wrapping or packing films around sweet boxes, invitation cards and cigarette packets
 - j) Plastic or PVC banner less than 100 microns and stirrers.
 - (ii) Polymer bitumen road is constructed in limited ways using plastic wastes.

- IX. Details of Alternate Treatment Technology being adopted by the State/UT
At present, 2 (two) units of Faecal Sludge Treatment Plant in place and serviced by 13 cesspool vehicles in the city of Dimapur (30 KLD) and Kohima (90 KLD) respectively. However, phytoremediation and Faecal Sludge and Septage Management Plants are proposed for all the other ULBs.
- X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment:
In progress as mentioned in IX.
- XI. In compliance of the Hon'ble National Green Tribunal (NGT) Order dated 25.04.2019, a Monitoring Cell has been constituted by the Chief Secretary vide Notification NO.FOR/SWM/46-1/2018 dated Kohima, the 4th June 2019 to monitor all directions of the Hon'ble National Green Tribunal (NGT) on various environmental matters.
 The Monitoring Cell is constituted of the following members:
 1. Member Secretary, Nagaland Pollution Control Board
 2. OSD, Environment, Forests & Climate Change
 3. Deputy Director, Urban Development Department
 4. Assistant Director, Municipal Affairs Department
- XII. Details of meetings carried under the Chairmanship of Chief Secretary in the State/UT:
Regular meeting is being taken under the Chairmanship of Chief Secretary to review action taken in relation to various NGT matters such as Sewage Treatment, Municipal Solid Waste Management, Biomedical Waste Management, Plastic Waste, Non-attainment cities, River Rejuvenation, etc.
- XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;
Enclosed
- XIV. Ground water regulation:
Geology and Mining Department, Govt. of Nagaland has initiated a bill namely "Nagaland Groundwater (Regulation and control of Development and Management Bill 2020" and is awaiting approval from the Government.
- XV. Good irrigation practices being adopted by the State:
The Water Resources department is implementing 270 nos of SMI Schemes under PMKSY-HKPP to cover a CCA of 8544 Ha with an Irrigation Potential planned of 10508 Ha out of which 6297 Ha has been achieved.
The Water Resources department is implementing 213 nos of SMI Schemes under PMKSY-HKPP to cover a CCA of 5444 Ha with an Irrigation Potential planned of 6837.30 Ha which is currently in progress.
The Water Resources department has implemented 262 units Irrigation Schemes under PMKSY-HKPP-GW namely Dimapur, Peren, Wokha, Mokokchung and Mon District to cover a CCA of 666.75 Ha which has been achieved and completed.

XVI. Rain Water Harvesting:

Rain water harvesting is very popular in the State and is available in almost every house. Rain water harvesting is also maintained by Government department buildings, schools and at colleges. The Water Resources department has implemented 31 nos of water bodies and water farms using LDPE lining in 9 districts namely Kohima, Dimapur, Mokokchung, Wokha, Tuensang, Kiphire, Phek, Zunheboto and Peren during FY 2019-22. Further, the department has another proposal for 29 nos of rain water harvesting farm ponds/water bodies for 5 districts namely, Kohima, Dimapur, Mokokchung, Wokha and Zunheboto during 2022-25.

XVII. Demarcation of Floodplain and removal of illegal encroachments:

The Water Resources Department has submitted the draft "Nagaland Flood Plain Zoning Bill" during February 2023 to the Government for its consideration and approval. In this line, the Department has proposed to let the Nagaland State Disaster Management Authority (NSDMA) head the Flood Plain Zoning in the State as the nature and activity of their Work is akin to the said Flood Plain Zoning activities. The proposed Nagaland State Disaster Management Authority will act as the Authority till the activity is pronounced and make considerable headway.

XVIII. Maintaining minimum e-flow of river:

The Water Resources Department under National Hydrology Project has set up 32 nos. of Automatic Water Level Recording (AWLR) Stations to monitor the daily depth of flow in the major river of the State.

XIX. Plantation activities along the rivers:

Tree plantation work done by Department of Environment, Forests and Climate Change and Agri allied departments in the State.

XX. Development of biodiversity park:

10 Community Reserve Forests has been notified in Dimapur district which falls in the upstream catchment area of the River Dhansiri and Chathe with a total area of 23.025 Sq.km. Botanical Garden and Puliebadze wildlife sanctuary are located in Kohima. There are no areas in flood plain of Dimapur suitable for Biodiversity Parks.

XXI. Reuse of Treated Water:

As per the directive of the Hon'ble National Green Tribunal, the treated water shall be reuse for the following:

- (a) Treated Water from STP is proposed to be utilized for irrigating the agricultural farms lying within the vicinity of the STP.
- (b) Sprinkling the road construction sites to control dust pollution
- (c) Flushing/cleaning of the sewage drains
- (d) Fire hydrants

XXII. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:

-

XXIII. Status of Preparation of Action Plan by the 13 Coastal States:

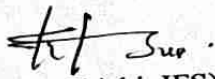
Not applicable

XXIV. Regulation of Mining Activities in the State/UT:

Regulated by the Geology & Mining Department as per Nagaland Minor Mineral Concession Rules 2004 (NMMCR).

XXV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring

Polluters and law violators are issued show cause notices/ Closure Notices.


(K. Hukato Chishi, IFS)
Member Secretary