

National Mission for Clean Ganga

Format for Submission of Monthly Progress Report by States/UTs
For the State of Assam/UT (for the month of July & August, 2023)
(Hon'ble NGT in the matter of OA No.673/2018 dated 24.09.2020)

Overall Status of the State:

Assam

I	Total Population	
	Urban Population and Rural Population	Total Population of Guwahati: 12 Lakhs (Approx) Total Population of rest of the ULBs : 24,46,576 Total Population (Rural) : 26807034 (As per Census 2011)
II	Estimated Sewage Generation (MLD)	All ULBs-435.53 MLD + 1.7 MLD (generated by hospitals in Guwahati city) = 437.23 MLD

III Details of Sewage Treatment Plant:

No of polluted river stretches identified by CPCB in Assam-9nos, 7 in Urban area (5 remain in Guwahati) Process for construction of 18 STPs is in process. As per PCBA, there is no requirement of STP in any of the polluted Water Body under P&RD Deptt.	
Existing no of STPs and Treatment Capacity (in MLD) :	31 nos. with treatment capacity of 2.4 MLD (Setup by Hospitals in Guwahati City) List at Annexure-III
Capacity Utilization of existing STPs:	Nil
MLD of sewage being treated through Alternate Technology:	-
Gap in Treatment Capacity in MLD:	99.89% (for ULBs)
No of Operational STPs:	31 with treatment capacity of 2.4 MLD (set up by Hospitals in Guwahati)
No of Complying STPs:	Guwahati-3 nos. -Silsakoo Beel (65MLD), Borsola Beel(62 MLD) and Paschim Boragaon(60 MLD). Rest of the ULB - 15 nos. Under SOPD-Nagaon((2ML).Under SBM 2.0-Mangaldoi(1.5 MLD), Tezpur (6 MLD), Jorhat (6.50 MLD), Tinsukia (12 MLD),Dhubri (4MLD), Bongaigaon (8.50 MLD), Sivasagar MB, Golaghat MB, Karimhganj MB, MargheritaMB, Mariani MB, Nalbari MB, Under AMRUT 2.0-DibrugarhMB and Silchar MB (2MLD)
No of Non-complying STPs:	

Details of each existing STP in the State

No.	Location	Existing STP Capacity	Operational Status of	Compliance Status of STP
Nil				Nil

Details of under construction STPs in the State

No.	Location	Capacity of the plant in MLD	Status of Project (at DPR Stage/Under Tendering/Work to be Awarded)	Likely Date of Completion
1. Nagaon: Construction work of 2 MLD STP is in progress(65% work completed) 2. BorsolaBeel: Tender process for Construction work of 2 MLD STP at BorsolaBeelis completed. 3. SorusulaBeel: A CSR scheme amounting to Rs. 259.00 Lakh under ICICI bank has been taken up for improvement of water quality of SorusulaBeel through Bio-remediation measures. 4. SilsakooBeel:Rejuvenation,Bioremediation and sustainable conservation works of Silsakoo Beel has been started to increase retention capacity of the beel to at least 3.7 million cubic meter to act as storm water basin, for ground water research zone and to have sponge city effect. The Govt. has already accorded Administrative Approval of excavation of SilsakooBeel to enhance its retention capacity amounting to Rs.2349.80 Lakh in 2022-23.				

Details of proposed STPs 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	Borsola, Guwahati	62.00MLD	Land for the 3 STPs have been taken over by Project Implementation Agency. 5 nos consultancy firms shortlisted for PMC services. RFP shall be issued on receipt of concurrence from JICA. Signed Aide Memoire amending Para 18 of the draft MoD has been shared by JICA	Approximately 2 years after sanctioning the DPR
2	Silsako, Guwahati	65.00MLD		
3	Pachim Boragaon, Guwahati	60.00MLD		

4	Silchar	2.00 MLD	Construction of 2 MLD STP cum 10 KLD FSTP and 11 km sewerage network at Silchar under AMRUT 2.0. Partial DPR prepared . Final DPR preparation under process.	Approximately 2 years after sanctioning the DPR	
5	Dibrugarh	7.00 MLD	DPR preparation of 7 MLD STP cum FSTP under AMRUT 2.0 is under process	Approximately 2 years after sanctioning the DPR	
6	Jorhat	6.50 MLD	In the 1st phase under Used Water Component of SBM 2.0, DPR preparationfor 6 nos. of STP cum FSTPs in Jorhat, Tezpur, Dhubri, Mangaldai, Bongaigaon and Tinsukia is completed. Technical appraisal awaited.	Approximately 2 years after sanctioning the DPR	
7	Tezpur	6.00 MLD			
8	Bongaigaon	8.50MLD			
9	Dhubri	4.00MLD			
10	Tinsukia	12.00MLD			
11	Mangaldoi	1.5MLD			
N.B Under Phase 2 of SBM2.0 identification of STP location is done and CSAP submitted and approved for 6ULBs (Golaghat MB- 3 MLD, Nalbari MB-2.5 MLD, Mariani MB-1 MLD, Margherita MB-2.5 MLD, Sivasagar MB-3.5 MLD and Karimganj MB-3.6 MLD). DPR preparation under process Under Phase 3 of SBM 2.0, Action plan submitted to MoHUA for approval for construction of 31 nos of STP cum FSTP in 31. Details of FSTPs in the State (Septic Tank): A total 32 stand-alone FSTP is under planning for implementation in 32 towns. 2 FSTP in Titabor MB (10 KLD) and Goalpara MB(7 KLD) are operational. The details of FSTP and status are as follows:					
Sl. No.	ULB Name	Capacity of FSTP in KLD Decided by ULB	Estimated Cost (INR, in lakhs)	Status	
1	Titabar MB	10	45	Operational	
2	Goalpara	7	136	Operational	
3	Barpeta MB	5	90	In various stages of tendering	
4	Barpeta Rd. MB	10	130		
5	Bongaigaon	15	120		
6	Jorhat MB	15	120		
7	Rangia M.B	5	90		
8	Diphu M.B.	10	110		
9	Kokrajhar MB	10	110		
10	Sivasagar M.B	10	110		
11	Tezpur M.B	10	110		
12	Rangapara M.B	10	110		
13	Tangla M.B	5	90		
14	GMC	20	360		
15	Nagaon MB	20	360		
16	Nazira	10	110		
17	Simalguri				
18	Kharupetia M.B.	10	110		
19	Dibrugarh	20	135		
20	Nalbari M.B	10	110		
21	Tinsukia M.B	20	135		
22	N. Lakhimpur M.B	10	110		
23	Golaghat M.B	10	110		
24	Bokakhat M.B	10	110		
25	Digboi M.B	10	110		
26	Silchar	20	135		
27	Karimganj M.B	5	90		
28	N. Guwahati M.B	10	110		
29	Dhemaji M.B	5	90		
30	Mariani MB	5	90		
31	Dhekiajuli M.B.	10	110		
32	Udalguri	10	110		
Total		337	38.66		
8	Kamalpur Beel (Kamrup)	No STP is proposed but as proposed by PCBA, installation of mechanized aerator is suggested		As per the proposal submitted from the Office of the Commissioner, P&RD, Assam vide letter No. CPRD/NGT/22/2020/Pv/545 dated 26.08.2022, the Govt. of Assam has accorded Administrative Approval for an amount of Rs. 3,22,43,339.00 vide AA/PRD-2022-23(I)-13 dated 20-09-2022. The PCBA has consented to execute the project vide their letter dated 01/03/2023.Approval of the Govt. for execution of the project by PCBA was issued vide letter dated 27/04/2023. Now the Deputy Commissioner, Kamrup is requested to furnish NOC from the Circle Officer, Kamalpur Revenue Circle vide P&RD Deptt's letter dated 24/05/2023.The reply is yet to be received.	NA

9	Pagladia River, Nalbari	As per earlier report of PCBA, Pagladia river is to be omitted from the list of polluted rivers. However, PCBA later on has prepared a revised action plan in respect of Pagladia River stretch with remedial activities amounting to Rs.2.90 Crore. Polluted river stretch of Pagladia River i.e. Balikuch to Khudra Sankara falls in rural areas.	IIT Guwahati has submitted the revised DPR to P&RD Deptt on 14/10/2022 with an estimated amount of Rs.321.72 lakhs. PCBA has vetted the DPR and it is now sent to the Chief Engineer, PWD(B) for Technical Sanction vide letter dated 19.11.2022 by P&RD Deptt. which is yet to be received.
10	Kharsang, Panchoi and other 17 polluted river stretches	As per latest MPR of PCBA, Kharsang, Panchnoi and other 17 polluted water bodies are free from pollution at present.	Although MoU have been signed with the IIT, Guwahati for preparation of DPR for treatment of polluted water of Kharsang and Panchnoi river as per resolution of the meeting of the Advisory cum Monitoring Committee for implementation of various projects relating to treatment of polluted river stretches/water bodies in different districts held on 15/06/2022, it is instructed to prepare the detailed action plan by the concerned Chief Executive Officers of Zilla Parishad/PDs, DRDAs with a view to protect the rivers from being polluted as per suggestions in the Action Plan of PCBA. Following action points are suggested in the meeting- (i) prepare a detail Action Plan as per suggestion in the Action Plan of PCBA. (ii) suggested for plantation scheme including Bambo plantation (iii) to make proper plan for solid waste management under Finance Commission Grant in collaboration with PHE department (iv) holding of mass awareness programme on solid waste management (v) local Civil Society Organizations may be involved in implementation and awareness campaigning.

CPRD, Assam has also been requested to communicate with IIT – Guwahati for furnishing of the estimated cost for preparation of DPR for remaining 17 nos. of polluted river stretches under priority V.

IV

<u>Details of Industrial Pollution:</u>			
No of industries in the catchment area of polluted stretches:		309	
No. of water polluting industries in the catchment area of polluted stretches :		309	
Quantity of effluent generated from the industries in the catchment area of polluted stretches in MLD:		14.29	
Quantity of Hazardous Sludge generated from the Industries in the catchment area of polluted stretches in TPD:		27.63	
Number of industrial units in the catchment area of polluted stretches having ETPs:		309	
Number of industrial units connected to CETP:		Nil	
Number of Existing ETPs in the catchment area of polluted stretches		309	
Number and total capacity of ETPs (details of existing/under construction/proposed)		30.70MLD	
Compliance status of the ETPs		complying	
Number and total capacity of CETPs (details of existing/under construction/proposed		Nil	
Status of compliance and operation of the CETPs		NA	
Status of compliance and operation of the CETPs			
NA			
Town	No.of industries	Industrial discharge	Status of CETPs (existing, under construction & proposed)
Nil	Nil	Nil	Nil

V

Solid Waste Management :			
Total number of Urban Local Bodies and their population	GUWAHATI- 01 ULB & Population – 12 Lakhs REST OF THE ULBs- 95 ULBs & Population- 24,46,576. RLBs: 2197+34 (Block of 6th scheduled area)=2231 Population: 26807034		
Current Municipal Solid Waste Generation	GUWAHATI- 550 TPD (tonnes per day) REST OF THE ULBs- 698 TPD Under P&RD Deptt - Insignificant		
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	For Guwahati		
	Description	Remarks	
	Waste to Energy (Tonnage and Power output)	Biomethanation plant running at Chetribari: Capacity 5.0 TPD. Output-800 unit of power and 450KGs of manure.	

	Compost Plants (Windrow, vermin, decentralized pit composting) No),Bhangagarh,Running. b) A 150 TPD compost cum RDF Plant at Belortol started by GMC. The technology involved is to produce compost and Refuse Derived Fuel from the mixed waste. c) 74718.475 MT of Legacy waste has ben processed by M/S Zigma Global Environment Solution Pvt Ltd at Boragaon legacy dumpsite. 1571.58 MT of Legacy waste was processed in the month of August, 2023
	Biomethanation Biomethanation plant running at Chetribari: Capacity 5.0 TPD. Output-800 unit of power and 450KGs of manure.
	MRF MRF cum Refuse Transfer Station(RTS) is functioning at 1) Zoo Road, 2) Near GMCH Bhangagarh, 3) VIP Road, 4) Chatribari. MRF of 10 TPD capacity at Adabari is under construction in association with HDFC Bank
	REST OF THE ULBs- Detail is attached at Annexure I.
	Not installed in Rural areas till now. GUWAHATI- Gap is > 10%.
Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap>20%)	GMC : 1. 150 TPD compost cum RDF is to be utilized in two shifts to handle 300 TPD waste. 2. 60 TPD Bio methanation plant has been approved and will be setup to process wet waste. REST OF THE ULBs-To bridge the gap between Installed Capacity and Current Utilization of processing facilities, all ULBs have prepared City Solid Waste Action plan under SBM 2.0
No. and capacity of C &D waste processing plants in TPD (existing, proposed and under construction)	GUWAHATI-100 TPD C&D processing plant is proposed in PPP mode. DPR is under finalization stageREST OF THE ULBs-Nil
Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source	Total number of wards under P&RD Department : 21970+414VCDC+41MAC+40VDC=22465 No of wards having door to door collection service -99, No. of wards practising segregation at source-99.
	For Guwahati
	DescriptionRemarks
	Total no. of wards60
	No. of Wards having door to door collection service practicing segregation at source
	Door to door collection : 60 Wards. • All wards practice segregation at source. • The segregation of waste at source in the city is approximately 45%. • GMC has engaged 60 Nos. of NGOs/ALFs for door-to-door collection of waste in 60 wards. • These NGOs have been equipped with Auto Tippers to carry waste.61 compactor bins have been placed in different parts of the city for disposal of primary waste. • The Divisional Engineers hold meetings with NGOs for better performance. Currently conservancy and Solid Waste from Roads are being collected in three shifts along with night conservancy drives. • GMC has implemented 100% collection of waste at Model Ward no.48(Division V). • Five new Model wards to be established in the remaining five Divisions of GMC REST OF THE ULBs- Total wards : 1083. Door to door collection : 1072 wards
	Rural Areas : 3 Model Villages had been notified in each Zilla Parishad and districts under Sixth Schedule areas where door to door collection is going on and also awareness campaigns are also being carried out. However, based on the reports received from the respective CEOs, it may be stated that the Solid Waste generation in rural areas is minimum and most of the waste generated are disposed in individual households.
Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)	For Guwahati
	DescriptionRemarks

		Biomethanation	60 TPD Bio-Methanation Plant Proposed at Adabari in City Solid Waste Action Plan (CSWAP) under SBM 2.0
		Organic Waste Converter	Nil
		Composting	GUWAHATI- Biomethanation: 60 TPD Bio-Methanation Plant Proposed at Adabari in City Solid Waste Action Plan (CSWAP) under SBM 2.0 Organic Waste Converter: Nil Composting: A 150 TPD compost cum RDF Plant at Belortolis under construction Proposed: Three Modern RTS cum MRF are proposed in the following locations – o Adabari – 150 TPD waste handling capacity cum 100 TPD Material Recovery capacity. Bid completed and LOI issued. Work order to be issued pending formalities. o Old Jail Campus – 150 TPD waste handling capacity cum 100 TPD Material Recovery capacity. Work order has been issued. o Mathgharia – 75 TPD waste handling capacity cum 25 TPD Material Recovery capacity. Bid completed and LOI issued. Work order to be issued pending formalities.
		(a) Total nos. of GPs=2197 (b) MSW treatment facility proposed =21970 (C) Nos of site selected for MCF (including 6th Scheduled Area)=6221 (d) Completed =2955 (e) Under construction 2281	
	No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills	GUWAHATI-No uncontrolled garbage dumpsites and sanitary landfills Dumpsite : 1 no. One(01) Controlled dumpsite at Belortol with area of about 50 bighas, with 150 TPD waste processing plant being installed REST OF THE ULBs- At present there is no such landfill.	
	No. and area (in acres) of legacy waste within 1 km buffer of both side of the rivers	GUWAHATI- Nil. REST OF THE ULBs- Nil Under P&RD Deptt - Nil	
	No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers	GUWAHATI- No of drains falling into the river: 39. 43 garbage traps have been installed at various places. Another, 04 new garbage traps have been installed, out of which 03 traps have been installed at PIBCO point, Rukminigaon, Shanti Path and AG Office Road in Bahini River and the remaining 01 have been installed at Arya Nagar in Bharalu River. REST OF THE ULBs- Instructions were issued to all ULBs and data is under process of collection Under P&RD Deptt- Lakhimpur ZP : 1 drain falls in Boginodi River, 6 drains fall in Ronganodi river, 9 drains falls in Dikrong river (No. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers: Nil)	

Status of ULB wise Managemnet of Solid Waste

ULB	Total MSW Generation in TPD	Total MSW being processed	Existing MSW facilities	Utilization capacity of the existing MSW	Proposed MSW facilities & completion timeline
Guwahati	550	7.5	1. Bio-methanation Plant 2. Organic Waste Converter	7.5	1. 150 TPD Compost cum RDF Plant is under construction – December, 2023 (owing to Monsoons). 2. Four Refuse Transfer Stations cum MRF – Work order has been issued for 01 RTS cum MRF at Old Jail, processing for issuance of work order for the two MRF cum RTS at Mathgharia and Addabari is ongoing. For Purabi Dairy, MRF cum RTS, proposal has been moved for obtaining AA 3. 60 TPD Bio-methanation plant proposed at Adabari in City Solid Waste Action Plan under SBM 2.0. SLTC approval received for the same and is under process. Final DPR has been submitted by Consultant and is under process. 4. 10 TPD Material Recovery Centre at Adabari under construction is association with HDFC Bank.

	95 nos	698	366	• Centralized Plant-67 Nos. • Pit Composting- 55000 Nos. • MRF- 144 Nos.	918	3 nos. will be completed by end of December, 2023
*Note: Segregated Waste is being collected only from 49% of the wards which leads to more Mixed Waste collection and hampering the maximum utilization of the existing processing facilities. On improvement of segregation of waste at source, the processing percentage will be increased.						

VI **Bio-medical Waste Management :**

Total Bio-medical generation:	2195.98KG/day
No. of Hospitals and Health Care Facilities in the catchment area of polluted stretches	85
Status of Treatment Facility/CBMWTF:	2 Operational (CBWTF located at Panikhaiti, Guwahati which covers Kamrup, Kamrup (M), Nalbari, Baksa, Nagaon and Morigaon districts). M/s Ksepya Environment Management Private Limited located at NH-31, Barpeta covers districts of Barpeta, Goalpara, Dhubri, Kokrajar and Bongaigaon.

VII **Hazardous Waste Management :**

Total Hazardous Waste generation in the catchment area of polluted stretches:	98.2 TPD (utilized, treated and disposed by the occupiers themselves)
No. of Industries in the catchment area of polluted stretches generating Hazardous waste	14nos.
Treatment Capacity of all TSDFs	Nil
Avg. Quantity of Hazardous waste reaching the TSDFs and Treated	Nil
Details of on-going or proposed TSDF	LOA has been issued to M/s Mumbai Waste Management Limited (unit of Re-Sustainability) for setting up of Integrated Waste Management Facility comprising of TSDF and CBWTF. M/s MWML has accepted the LOA and concession/contract agreement has been signed between PCBA and M/s MWML. M/s MWML is in the process of making applications for CTE and Environmental Clearance. Presently most of the incinerable hazardous waste are being sent to Dalmia Cement plant for co-incineration. Few industries have also installed captive SLF for disposal of hazardous waste.

VIII **Plastic Waste Management :**

Total Plastic Waste generation:	Rest of ULBs- 49 TPD GUWAHATI- 120TPD (estimated)
Treatment/Measures adopted for reduction or management of plastic waste	For Guwahati (i) Single use plastic has been banned in the city pursuant to orders of Govt. (ii) Enforcement squads have been formed to enforce the ban and seizure of the single use plastic and for imposing penalties. Drives made by Deputy Commissioners/Collectors, GMC from time to time. REST OF THE ULBs- Plastic wastes generated in ULBs are managed through Recyclers/rag pickers, MRFs, Cement Plants and construction of roads. P&RD Deptt- Construction of Mini Material Collection Facility (MMCF) in every village and Material Collection Facility (MCF) in every GP have been proposed under 15th FC tide grant, The work is under process. One Plastic management unit at Block level in each block is also proposed to be installed in convergence with PHED under 15th FC tied component.
IX Details of Alternate Treatment Technology being adopted by the State/UT	Guwahati: Alternative technology is being studied by the Corporation. ◦ In Lakhimpur ZP, litter bin has been provided to collect plastic waste in model village. Further, one plastic store house at each model village has been constructed to gather the plastic waste collected at the litter bin.

X	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment	◦ In Kamrup ZP,1 drain falls in Kamalpur Beel ◦ In Nalbari ZP,1drain falls in Pagladia River ◦ In Lakhimpur ZP, 1drain falls in Boginodi River, 6 drains falls in Ronganodi River and 9 drains falls in Dikrong River. ◦ In Kamrup (M) ZP, Parashali Beel and the drain polluting this Beel is identified i.e. a drain from Jeng beel and a channel from Jagiroad contributing the pollution. ◦ In Sivasagar ZP, Rs.8.56772 lakhs has been sanctioned for cleaning the Tengapukhuri Beel at GP level under MGNREGA (Rs.6.00 Lakhs and 14th FC (Rs.2.56772 Lakhs) ◦ In Tinsukia ZP, action is initiated for Digboi river by Borbil GP taking scheme like “Excavation and cleaning of Digboi river under MGNREGA “ and under 14th FC “Pavers Block Road cum Protection of Pather Basti for stopping the flow of water to the Paddy field.																																																										
XI	Details of Nodal Officer appointed by Chief Secretary in the State/UT	Principal Secretary to the Govt. of Assam, Environment & Forest Department																																																										
XII	Details of meeting carried under the Chairmanship Chief of Secretary in the State/UT:	The Chief Secretary, Assam has been regularly reviewing the Progress in the matter and expedite implementation of all Action Plans.																																																										
XIII	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river:	<table><thead><tr><th>Priority</th><th>No. of stretches declared in 2018</th><th>No. of stretches in 2019 (Jan to Dec, 2019</th><th>No. of stretches in 2020 ((Jan to Dec, 2020)</th><th>No. of stretches in 2021 (Jan to December, 2021)</th><th>No. of stretches in January, 2023-August, 2023</th></tr></thead><tbody><tr><td>Priority-I</td><td>3</td><td>5</td><td>3</td><td>1</td><td>1</td></tr><tr><td>Priority-II</td><td>1</td><td>-</td><td>1</td><td>3</td><td>3</td></tr><tr><td>Priority-III</td><td>4</td><td>-</td><td>1</td><td>1</td><td>1</td></tr><tr><td>Priority-IV</td><td>3</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>Priority-V</td><td>33</td><td>9</td><td>1</td><td>4</td><td>4</td></tr><tr><td>Not Polluted</td><td>-</td><td>30</td><td>38</td><td>35</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>35</td></tr><tr><td>Total</td><td>44</td><td>44</td><td>44</td><td>44</td><td>44</td></tr></tbody></table>	Priority	No. of stretches declared in 2018	No. of stretches in 2019 (Jan to Dec, 2019	No. of stretches in 2020 ((Jan to Dec, 2020)	No. of stretches in 2021 (Jan to December, 2021)	No. of stretches in January, 2023-August, 2023	Priority-I	3	5	3	1	1	Priority-II	1	-	1	3	3	Priority-III	4	-	1	1	1	Priority-IV	3	-	-	-	-	Priority-V	33	9	1	4	4	Not Polluted	-	30	38	35							35	Total	44	44	44	44	44	(a) Cleaning and dredging activities as per the Action Plan has started in the Bharalu River and Silsako Beel. (b) Detailed status of water quality of polluted river stretches in Assam (January,2023 to August, 2023) is at Annexure-IV Action will be taken as per SBM 2.0 under DoH&UA.			
Priority	No. of stretches declared in 2018	No. of stretches in 2019 (Jan to Dec, 2019	No. of stretches in 2020 ((Jan to Dec, 2020)	No. of stretches in 2021 (Jan to December, 2021)	No. of stretches in January, 2023-August, 2023																																																							
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Total	44	44	44	44	44																																																							
XIV	Ground water regulation	As per previous report																																																										
XV	Good irrigation practices being adopted by the State:	As per previous report																																																										
XVI	Rain Water Harvesting	Guwahati: Yes, made applicable as per Guwahati Building Bye-Laws 2014. These conditions are provided in Building permission wherever applicable as per Building Regulations of 2014. REST OF THE ULBs :Action Plan and Guideline for Rain water harvesting were issued to ULBs. ▪ 3 nos. of ponds under Nagaon GP, under Tinsukia ZP are restored for multipurpose needs. These ponds are used for harvesting rain water for irrigation and agricultural needs and also for breeding fish. ▪ In Dibrugarh, rain water is being harvested through natural/artificial ponds. ▪ In other Zilla Parishads, it is proposed to take up of schemes under MGNREGA/ASEC/15th FC.																																																										

XVII	Demarcation of Floodplain and removal of illegal encroachments:	• Guwahati: Flood plain has been demarcated. • Illegal encroachments are being remedied by various organizations including GMC, GMDA etc. • Action is under taken on unauthorized bridges and removal of encroachment by District Authority and GMC from time to time. Communication has been made to DC, Kamrup Metropolitan office to carry out eviction of encroachment for widening of the Bahini river at 17 locations and also to ensure the right way to remove the desilted material • Removal of encroachment and demarcation along the Bahiniriver was undertaken. • 19 out of 25 bridges have been demolished or partially demolished as per the order of Hon'ble High Court. The Chairman, DDMA/ DC Kamrup (Metro) had issued orders for demolition of additional 06 bridges over the Bahini River and out of which 04 bridges have already been demolished and the rest 02 are to be demolished as soon as possible. • Planning branch, GMC surveyed 99 numbers of plots along the side of Bahiniriver. Notices served to all of these. • Survey has been completed by respective Divisions for widening of Bharaluriver and Lakhimijann channel. • Cleaning and de-silting of 05(five) major river channels: Bahini River, Bharalu River, Mora Bharalu Channel, Lakhimijaanand Basistha river are going on in war footing. More than 95% physical progress for cleaning & desilting have been achieved for almost for all the rivers.
XVIII	Maintaining minimum e-flow of river	Encroachments have been removed on the banks of the River Bharalu for a stretch of 700 meters starting from Ulubari Nursery to Arya Nagar Point (Sarabhatti). Initiative for plantation and fencing has also been undertaken to ensure no encroachment in near future.
XIX	Plantation activities along the rivers:	• In Tinsukia ZP, different types of tree plantation are done in the GPs like Na- Sadiya, Nagaon, Amorpur and Shantipur GP areas. But only a few plantation are done along the river bank to protect the soil erosion under Sadiya Dev. Block and under Margherita Dev. Block in Jagun GP plantation scheme is taken under MGNREGA for both side of Kharsang river (Afforestation at Kharsang polluted river stretch, estimated amount: Rs. 2,00,000/-). - In Kamrup, 4 nos. of plantation schemes has got Administrative Approval under Kulshi River, 1 no. of plantation scheme has been started in Puthimari River, 2 nos. of Plantation Schemes have been started in Satpakhal GP, 1 no. at Amtola Ziakur GP and 1 at Sapartari GP under Rampur AP. • In Nagaon ZP, Schemes for cleaning the Samaguri beel along with plantation is being taken up under MGNREGA, • In Udalguri District, plantation work has been started in Panchnoi River under MGNREGA. Environment and Forest Department, Govt. of Assam planted trees along the Brahmaputra River in Guwahati City area. GMC will prepare an action plan in association with Forest Department
XX	Development of biodiversity park:	Parks are being improved through AMRUT and GMDA. Biodiversity Management Committee has been formed in all Zilla Parishads
XXI	Reuse of Treated Water	Action will be taken as per SBM 2.0 & AMRUT 2.0
XXII	Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:	The Govt. of Assam, Environment & Forest Department has adopted 'Bharalu river' as 'Model river' vide Notification No. FRM.171/2018/Pt/Vol-I/657 dated 02.03.2022.
XXIII	Status of Preparation of Action Plan by the 13 Coastal States	Not Applicable
XXIV	Regulation of Mining Activities in the State/UT:	Being done by Mines & Minerals Department
XXV	Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring	• PCBA has closed down the erring industries located in the catchment areas of the polluted river stretches. - GUWAHATI-Action initiated and notices served, fines realized under the Guwahati Municipal Corporation Act, 1969 from time to time. Enforcement Branch, GMC has initiated drives in co-ordination with SPCB. - Over Rs 60000 has been realized in fines and material over 5000 kgs have been seized. - Further, fines for violation of norms like non-usage of Green Netting in under construction building etc have been realized from time to time. - REST OF THE ULBs- • City level Task force are formed at ULB levels under the Chairmanship of Executive Officer of the Municipal Board and other members from various Departments. • District Level Task Force in every district of Assam has been formed for effective implementation of Plastic Waste Management Rules, 2016 (PWMR 2016) and related Action Plan of Government of Assam for elimination of Single Use Plastics in mission mode under the chairmanship of the Deputy Commissioner. • Fines are being charged against the violators from time to time.

Details of MSW facilities & MRF

Sl. No.	MSW processing facility	Nos.	Capacity (TPD)	Utilization (TPD)	Type of processing
1	Centralized Processing Facilities	67	266	175	Waste to Compost
2	Decentralized/Vermi/Window/Pit Composting	55000	222	39	Waste to Compost
3	Material Recovery Facility	144	430	152	MRF

Note:Remarks on gap between installed Capacity and Waste Processed.

A) In regards with Utilized processing facilities, following are the details.

Sl. No.	Name of the ULB	Wet Waste Generated	Wet Waste Processed	No. of Centralized Plant	Total Capacity of Centralized Plant	Utilization Percentage		Remarks
						In respect of Waste Generated	In respect of Plant Capacity	
1	Abhayapuri MB	1.9	0.63	1	2	33.16%	31.50%	
2	Bongaigaon MB	10.5	6	4	6	57.14%	100.00%	
3	Dibrugarh MB	35	14	1	70	40.00%	20.00%	
3	Hailakandi MB	2.47	1.7	3	5	68.83%	34.00%	
4	Jorhat MB	15.8	1.4	3	16.5	8.86%	8.48%	
5	Kokrajhar MB	6.18	5	2	17.4	80.91%	28.74%	
6	Morigaon MB	4	2	1	0.5	50.00%	400.00%	
7	Palashbari MB	0.8	0.55	1	4	68.75%	13.75%	
8	Silchar MB	45	18	5	42	40.00%	42.86%	
9	Sibsagar MB	7.5	4.85	1	10	64.67%	48.50%	
10	Tezpur MB	12.69	8.3	3	51	65.41%	16.27%	
11	Tinsukia MB	23.48	15.4	4	22.63	65.59%	68.05%	
12	Titabar MB	1.1	0.5	1	0.5	45.45%	100.00%	
TOTAL		166.42	78.33	30	247.53	47.07%	31.64%	

N.B: 37nos of Organic Waste Converters of capacity 0.5 TPD each, total capacity- 18.5 TPD are made operational in 29 ULBs for processing of wet waste (attached as Annexure-II).

B) Decentralized Plants: 55000 nos. Total Capacity: 222 TPD Utilization: 39 TPD

As instructed by the National Mission Directorate of SBM (U) during V.Cs and Webinar, Mission Directorate of SBM (U), Assam has been concentrating and encouraging household backyard composting with different advertisements and publicities under IEC. Presently, there are 55000 nos. of such households' backyard composting with total intake capacity of 222 TPD. These Pits are designed for collection of 10 days' wet waste. It takes 10 days to complete 1 (one) cycle of Composting. As such, total treatment done per day is 39MT.

C) Material Recovery Facility: 144 nos. Total Capacity: 430 TPD. Utilization: 152 TPD, management/treatment of dry waste depends on quantity of daily collection of dry waste. At present, on an average 152 TPD of dry waste has been managed.

Organic Waste Converters Operational

Annexure-II

Sl. No.	Name of ULBs	Quantity (Nos.)	Capacity	Status
1	Barpeta MB	1	0.50	Operational
2	Barpeta Rd. M.B.	1	0.50	Operational
3	Bilasipara M.B.	1	0.50	Operational
4	Chapar MB	1	0.50	Operational
5	Dergaon MB	1	0.50	Operational
6	Doomdooma M.B.	1	0.50	Operational
7	Gauripur M.B.	1	0.50	Operational
8	Goalpara M.B.	2	1.00	Operational
9	Golaghat M.B.	1	0.50	Operational
10	Jorhat M.B.	2	1.00	Operational
11	Nagaon MB	3	1.50	Operational
12	Rangia M.B.	1	0.50	Operational
13	Sivasagar MB	2	1.00	Operational
14	Dhubri MB	2	1.00	Operational
15	Digboi M.B.	1	0.50	Operational
16	Hojai MB	1	0.50	Operational
17	Margherita M.B.	1	0.50	Operational
18	Nalbari M.B.	1	0.50	Operational
19	Lanka MB	1	0.50	Operational
20	Bokajan MB	1	0.50	Operational
21	Kajalgaon MB	1	0.50	Operational
22	Moriani M.B.	1	0.50	Operational
23	Silapathar MB	1	0.50	Operational
24	Sonari MB	1	0.50	Operational
25	Dhekiajuli MB	1	0.50	Operational
26	Lumding MB	1	0.50	Operational
27	North Lakhimpur MB	2	1.00	Operational
28	Mangaldoi MB	1	0.50	Operational
29	Karimganj MB	2	1.00	Operational
Total		37		

REPLY SUBMITTED OF THE HOSPITAL/NURSING HOME REGARDING DETAILS OF STP AND SEWAGE DISPOSAL SYSTEM

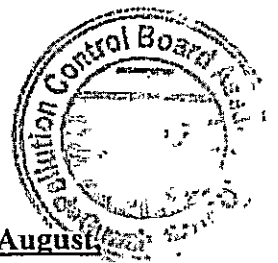
SL No	NAME OF HOSPITAL/NURSING HOME	Status of existing STP	Year of Installation	Technology used in the STP	Daily waste water generated	Capacity of STP	% age of waste water treated in STP	% age of treated waste water recycled	% age of treated waste water disposed
1	Apollo Hospital Guwahati Unit : International Hospital, Lotus Tower, G. S. Road, Guwahati	Yes	2019	Yes	0.05 MLD	0.16 MLD	100%	NIL	100%
2	M/s Guwahati Lions Eye Hospital, K. C. Choudhury Path, near K. C. Das Commerce College	Yes	2014						
3	Satibari Christian Hospital, K. C. Road, Guwahati	Yes	2016	Yes	45000 liters/day	60000 liters/day	100%	10%	90%
4	North Eastern Medical Research Institute Limited Brand Name : Arya Hospita,. A. M. Road, Rehabari, Guwahati	Yes	2017	Yes	0.02 MLD	0.04MLD	100%	NIL	100%
5	Marwari Hospitals, Sati Jaimati Road, Athgaon, Guwahati	Yes	2018	Yes	50 KLD	80 KLD	100%	10%	90%
6	Nemcare Institute & Research Centre and Super Speciality Hospital, GMCH Road, Bhangagarh	Yes	2016	Yes	Average 80 KL	100 KL/day	100%	100%	NIL
7	Kuntal Goswami Memorial Trust KGMT Multispeciality Hospital, Zoo Narengi Road, Opposite Gita Nagar Police Station	Plan to set up a proper Solid Waste Plant in Hospital in near future							
8	H. M. Hospital & Research Centre (P) Ltd, Hatigaon, Dispur, Guwahati - 6	Yes	2018	Yes (MBBR)	20 KLD	20 KLD	99%	60%	40%
9	Sarvodaya Health Care, Dr. J. C. Das Road, Kamarpatty, Panbazar, Guwahati - 1	Yes	2018	Physical Treatment, Bactelological Anaerobic treatment for BOD-COD, PH treatment, Filtration process	1000 Litres /day	2000 Litres/day	100%	10%	90%

SL No	NAME OF HOSPITAL/NURSING HOME	Status of existing STP	Year of Installation	Technology used in the STP	Daily waste water generated	Capacity of STP	% age of waste water treated in STP	% age of treated waste water recycled	% age of treated waste water disposed
10	Akanksha Hospital Private Limited, Gotanagar, N. H. - 37, near Hotel Radisson Blu, Guwahati	Yes	2018	Physical Treatment, Bactelological Anaerobic treatment for BOD-COD, PH treatment, Filtration process	6500 water /day	10000 water/day	100%	10%	90%
11	Sanjevani Hospital, A. T. Road, Maligaon, Guwahati - 781011	Yes	2017	Yes	9700 Litres/day	20000 Litres/day	100%	10%	90%
12	Guwahati Metro Hospital, 2 No. Khanapara, N H - 37, Opposite Bodoland Guest House, Khanapara, Guwahati - 22	Yes	2020	Semi Conventional System	12 to 13 KLD	25 KLD	100%	NO	100%
13	Swagat Super Speciality Surgical Institute & NH, Mahapurush Damodardev Path, Maligaon, Guwahati - 11	Yes	28.03.2015	Yes	37 KLD	50 KLD	100%	10%	90%
14	Swagat Endolaparoscopic Surgical Research Institute, A. T. Road, Shantipur, Guwahati - 781009	Yes	2021	Yes	3.5 KLD	5 KLD	100%	10%	90%
15	NETRAM Eyecare/Eyewear	Quantity : 1 (one set)	Model : ECO5	Capacity : 1000 Ltr/day	ETP Accessories : Secondary Clarifier , Settling tank, Chemical Dozing System, Multi Media filter and all necessary arrangement to water supply and electrification				
16	Down Town Hospital Ltd, Sankardev Path, Dispur, Guwahati - 6	Yes	2003	Yes	1,20,000 KLD	300m ³ /Hour	100%	NIL	100%
17	Narayana Superspeciality Hospital/Bafna, Amingaon,	Yes	2013	Yes	0.052 MLD	0.1 MLD	52.66%	0.58%	99.42%
18	Narayana Superspeciality Clinic, Kachari Basti Road, South Sarania, Ulubari, Guwahati	Yes	2017	Yes	0.00014 MLD	0.01 MLD	13.50%	2.02%	97.98%
19	Health City Hospital, N.H 37, Koinadhara, Khanapara, Guwahati - 781022	Yes	2022	Moving Bed Bio film Reactor MBBR process	150 KLD (approx)	200 KLD	99%	80%	20%
20	Indira IVF fertility & IVF Centre, 3rd floor, Achyut & Chowdhury Complex, G. S. Road, Ulubari, Guwahati	Do not have any STP and Sewage Disposal System. Authority hereby confirms that ETP installed as per PCB norms and follow all the norms and Guidelines issued by Pollution Control Board							

SL No	NAME OF HOSPITAL/NURSING HOME	Status of existing STP	Year of Installation	Technology used in the STP	Daily waste water generated	Capacity of STP	% age of waste water treated in STP	% age of treated waste water recycled	% age of treated waste water disposed
21	Dispur Polyclinic & Hospitals Pvt. Ltd. Ganeshguri Chariali, Guwahati - 781006	Yes	2020	MBBR	50 KLD	50 KLD	99%	70%	30%
22	Global Hospital of Surgery & Institute of Endo-Laparoscopy, Sijubari, Dargah Road, Hatigaon, Dispur, Guwahati - 38	No STP for Medical Solid Waste but managing the Medical Solid waste by out sourcing with the company Fresh Air, a company authorized by Pollution Control Board of Assam. Other non medical solid waste is managed by out sourcing Saptarathi Welfare Society, an authorized society under Guwahati Municipal Corporation.							
23	Saint John's Hospital, GMC Road, Christian Basti, Dispur, Guwahati -	Yes	2018	Yes	12500 Litres/day	25000 Litres/day	100%	10%	90%
24	Rahman Hospitals Pvt. Ltd., VIP Road, Sixmile, Guwahati - 22	Yes	2017	MBBR	25 KLD	40 KLD	99%	30%	70%
25	Pratiksha Hospital, Barbari, Hengrabari, VIP Road, Guwahati - 781036	Yes	2018	MBBR (Moving bed bio reactor) Aerobic reactor Tank	30 KLD	40 KLD	100%	33%	67%
26	The Eyecare Center (Hospital), Gauhati Club, Hedayetpur Road, Guwahati - 3	Yes	2018	Physical Treatment, Bactelological Anaerobic treatment for BOD-COD, PH treatment, Filtration process	2000 Litres/day	3000 Litres/day	100%	10%	90%
27	N. L. Medicare & Research Centre, 17 Sarvodaya Path, Bus stop ABC, G. S. Road, Guwahati	Yes	2000	Physical Treatment, Bactelological Anaerobic treatment for BOD-COD	10 Litres	1000 Litres/day	100%	None	100% after treatment
28	Wintrobe Hospital, G. N. B. Road, Ambari, Guwahati - 781001	Yes	2019	as per BMWM 2016 Rule	0.12 MLD	0.25 MLD	100%	70%	30%
29	GNRC Hospital, Sixmile, Guwahati	Yes	2018	Moving Bed Bio Reactor process	0.036 MLD	0.06 MLD	100%	0%	100%
30	Good Health Hospital Private Limited (a wholly owned subsidiary of GNRC Ltd, , G. S. Road, Dispur, Guwahati - 6	Yes	2020	Yes	0.01 MLD	0.01 MLD	100%	0%	100%
31	GNRC Hospital, Dispur, Guwahati	Yes	2019	MBBR	0.05 MLD	0.07 MLD	100%	0%	100%
SL No	NAME OF HOSPITAL/NURSING HOME	Status of existing STP	Year of Installation	Technology used in the STP	Daily waste water generated	Capacity of STP	% age of waste water treated in STP	% age of treated waste water recycled	% age of treated waste water disposed

32	City Heart Hospital, Rajgarh Road, Guwahati 781007	Yes	2016	Physical Treatment, Bactelological Anaerobic treatment for BOD-COD, PH treatment, Filtration process	6500 Litres/day	10000 Litres/day	100%	10%	90%
33	Midland Hospital, Shreenagar, Near State Zoo, R. G. Baruah Road, Guwahati	Yes	2017	As per BMWM 2016 Rule	0.10 MLD	100% MLD	0.15 MLD	70% MLD	30% MLD
34	Sun Valley Diabetic Care & Research Centre Private Limited, Purbanchal Path, Mathura Nagar, G. S. Road, Guwahati	Arranged to install the STP at the earliest time, the process of which is already starte.							
35	Dr. Kalicharan Das Nursing Home & Polyclinic, Kalapahar, Gopinath Nagar, Guwahati - 16	Yes	2017	MBBR	10000 MLD	20000 MLD	99%	20%	80%
36	Ayursundra Super Speciality Hospital, Ahom Gaon, Garchuk, Guwahati - 35	Yes	2016	MBBR (Moving bed bio reactor) Aerobic reactor Tank	150 KLD	200 KLD	100%	10%	90%
37	Central Nursing Home, Survey, Beltola, Guwahati - 28	Yes	2015	As per BMWM 2016 Rule	0.14 MLD	0.45 MLD	100%	70%	30%
38	Agile Hospitals Pvt. Ltd., Jayanagar Chariali, Khanapara, Guwahati - 22	Yes	2018	MBBR	60 KL	60 KL	100%	N/A	100%

Annexure - IV



c) Water quality Status of Polluted River stretches in Assam (January, 2023 to August 2023)

Sl. No.	Name of the River	BOD (mg/l)		Current Priority
		Min	Max	
Priority I				
1	Bharalu river	30.8	37.9	I
2	Borsola beel	19.8	26.0	II
3	Silsako beel	12.0	19.2	III
Priority II				
4	Sorusala beel	17.6	25.8	II
Priority III				
5	Kamalpur beel	21.0	26.2	II
6	Deepor beel	4.9	5.8	V
7	Digboi river	3.0	3.4	V
8	Panchnoi river	2.3	2.7	To be delisted
Priority IV				
9	Kharasang river	2.0	2.6	To be delisted
10	Brahmaputra River	2.0	2.8	To be delisted
11	Pagladia river	2.0	2.8	To be delisted
Priority V				
12	Buridihing river	2.0	2.7	To be delisted
13	Disang river	1.8	2.5	To be delisted
14	Borbeel	2.2	2.8	To be delisted
15	Gabharu river	2.1	2.5	To be delisted
16	Mora Bharali river	3.1	3.2	V
17	Puthimari river	2.4	2.7	To be delisted
18	Baroi river	1.9	2.6	To be delisted
19	Jia Bharali river	2.0	2.5	To be delisted
20	Barak river	2.0	2.7	To be delisted
21	Sonai river	2.2	2.5	To be delisted
22	Malini beel	2.1	2.5	To be delisted

Sl. No.	Name of the River	BOD (mg/l)		Current Priority
23	Bega river	3.1	3.4	V
24	Beki river	2.1	2.7	To be delisted
25	Bhogdoi river	2.1	2.5	To be delisted
26	Jhanji river	2.1	2.6	To be delisted
27	Boginadi river	2.0	2.4	To be delisted
28	Dikrong river	1.8	2.6	To be delisted
29	Ranganadi river	2.0	2.6	To be delisted
30	Dhansiri river	2.1	2.6	To be delisted
31	Kohora river	2.0	2.4	To be delisted
32	Dikhow river	1.8	2.5	To be delisted
33	Sankosh river	2.0	2.3	To be delisted
34	Bordoibum Beelmukh	2.0	2.4	To be delisted
35	Holudunga beel	2.0	2.4	To be delisted
36	Diplai beel	2.0	2.5	To be delisted
37	Samaguri beel	2.0	2.4	To be delisted
38	Kolong river	2.0	2.4	To be delisted
39	Killing river	1.9	2.5	To be delisted
40	Kapili river	2.1	2.5	To be delisted
41	Son Beel	2.0	2.6	To be delisted
42	Tengapukhuri	2.3	2.5	To be delisted
43	Parashali beel	2.0	2.7	To be delisted
44	Kulsi river	2.3	2.7	To be delisted

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

- PCBA has closed down the erring industries located in the catchment areas of the polluted river stretches.