

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 December, 2022)
(Hon'ble NGT in the matter of OA No.673/2018 dated 24.09.2020)

Overall Status of the State:

I	Assam	
	Total Population	
II	Urban Population and Rural Population	Total Population of Guwahati: 12 Lakhs (Approx) Total Population of rest of the ULBs : 24,46,576 Lakhs Total Population (Rural) : 26807034 (As per Census 2011)
	Estimated Sewage Generation (MLD)	All ULBs- 435.53MLD

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) :
		NIL
		Capacity Utilization of existing STPs:
		-
		MLD of sewage being treated through Alternate Technology:
		-
		Gap in Treatment Capacity in MLD:
		100% (for all ULBs)
		No of Operational STPs:
		-
		Guwahati-3 nos. -SilsakooBeel((65MLD), BorsolaBeel(62 MLD) and PaschimBoragaon(60 MLD). Rest of the ULB- 15 nos. Nagaon((2MLD)(SOPD), 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, Karimganj MB, MargheritaMB, Mariani MB, Nalbari MB and under AMRUT 2.0 DibrugarhMB and Silchar MB (2MLD)
		No of Complying STPs:
		No of Non-complying STPs:
		8 nos.

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
GUWAHATI- STPS at Borsola, Silsako Pachim Boragaon :Land for the 3 STPs have been taken over by Project Implementation Agency. JICA Mission Team along with officials from MEA and Embassy of Japan visited the STP sites on 30th& 31st May,2022. Project Management Consultancy(PMC) shortlisted, RFP will be issued after receiving the concurrence from JICA and signing of MoD REST OF THE ULBS- STP at Nagaon (2MLD) : Construction work in progress(10%).				

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	Silchar	2.00 MLD	Construction of 2 MLD STP cum 10 KLD FSTP and 11 km sewerage network at Silchar will be taken under AMRUT 2.0. Partial DPR prepared . Final DPR preparation under process.	Approximately 2 years after sanctioning the DPR
2	Dibrugarh	7.00MLD	DPR preparation of 7 MLD STP cum FSTP under AMRUT 2.0 is under process	Approximately 2 years after sanctioning the DPR
3	Jorhat	6.50 MLD	DPR preparation for 6 nos. of STP cum FSTPs in the six towns in the 1st phase under Used Water Component is under process as per SBM guidelines	Approximately 2 years after sanctioning the DPR
4	Tezpur	6.00 MLD		
5	Bongaigaon	8.50MLD		
6	Dhubri	4.00MLD		
7	Tinsukia	12.00MLD		
5	Mangaldoi	1.5MLD	DPR preparation for 6 nos. of STP cum FSTPs in the six towns in the 1st phase under Used Water Component is under process as per SBM guidelines	
N.B: Under Phase 2 of SBM2.0 identification of STP location is done and CSAP submitted for 4ULBs(Golaghat MB, Nalbari MB, Mariani and Margherita MB) and preparation of CSAP is under process for another 2ULBs(Sivasagar MB and Karimganj MB). Under Phase 3 of SBM 2.0, preparation of CSAPs ,drainage map for 10 ULBs is under progress. Details of FSTPs in the State (Septic Tank): A total 32 stand-alone FSTP is under planning for implementation in 32 towns. 1 FSTP in Titabor MB (10 KLD) is operational. 1 FSTP (7 KLD) capacity is under construction in Goalpara. 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	Under construction
3	Barpeta MB	5	90	
4	Barpeta Rd. MB	10	130	
5	Bongaigaon	15	120	
6	Jorhat MB	15	120	

7		Rangia M.B	5	90	In various stages of tendering	
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/Pt/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. Now the Chief Engineer, PWD(B), Assam has been requested to execute the project vide letter No. CPRD/NGT/22/2020/Pt/555 dated 31.10.2022. But the Chief Engineer, PWD(B) have communicated stating their unwillingness to implement the project saying that it is not as per the usual activity of the office of the Chief Engineer, PWD(B) Assam. Further the Water Supply & Sewage Board, Assam was contacted for implementing the Project. They have also shown their unwillingness to implement the Project, stating that the Project site is not within their jurisdiction i.e. Urban Area. Now CPRD, Assam is requested to contact the PCBA for implementation of the project.			NA
9	Pagladia River, Nalbari	As per earlier report of PCBA, Pagladia river is to be omitted from the list of polluted rivers. But no order has been received from NGT till now in this regard. 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. Communication from CPCB for delisting the river stretches is yet to be received.	IIT Guwahati has submitted the revised DPR to P&RD Deptt on 14/10/2022 with an estimated amount of Rs.321.72 lakhs. Now the DPR has been sent to PCBA for vetting vide letter dated 19.11.2022.			
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. Communication from CPCB for delisting the river stretches is yet to be received.	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

Details of Industrial Pollution:	
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

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

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 lakhs. 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- 695TPD	
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-the Plant is operational.
	Compost Plants (Windrow, vermin, decentralized pit composting)	(a)Organic Waste Converter, Capacity: 2.5 TPD(one No),Bhangagarh, the Plant is 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. Installation of one set of Trommels is completed and operation is in progress.
	Biomethanation	Biomethanation plant running at Chetribari: Capacity 5.0 TPD. Output-800 unit-operational.
	MRF	Material Recovery Facility : 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-	
	MSW processing facilities: 54 nos of 339.77 TPD capacity(Details is attached at Annexure-I & Annexure -II)	
Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap>20%)	GUWAHATI- Gap is > 10%. GMC :GMC has initiated bidding process for setting up of Garbage Transfer Station cum MRF at three locations:1) Adabari, 2) old Jail Campus, 3) Madgharia. Process for setting up another RTS at Purabi dairy complex has been initiated. Action plan prepared by the consultant engaged by GMC to bridge the gap between installed capacity and current utilization of processing facilities under SBM. REST OF THE ULBs-To bridge the gap between Installed Capacity and Current Utilization of processing facilities funding for 42 ULBs under SBM 2.0 is considered.	
No. and capacity of C &D waste processing plants in TPD (existing, proposed and under construction)	GUWAHATI-100 TPD C&D waste processing plant has been proposed under National Clean Air Programme. Land has been identified, DPR preparation is in progress. REST OF THE ULBs-Nil	
	REST OF THE ULBs-Total wards : 1089. Door to door collection : 1030 wards Source segregation: 439 wards. 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	
	Description	Remarks
	Total no. of wards	60
		Door to door collection : 60 Wards.

Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source	No. of Wards having door to door collection service practicing segregation at source	60 @ 40% to 50% efficiency. Currently 40% of waste is segregated at source. NGOs/ALFs engaged in door to door collection and segregation of waste, 86 Nos. of NGOs engaged for the purpose for the month of November& December,2022. These NGOs have been equipped with Auto Trippers to carry waste. The Divisional Engineers hold meeting with NGOs for better performance. Currently conservancy and Solid Waste from roads is collected in three shifts. Further, GMC has selected Ward no-48 as model ward for implementation of integrated solid waste management along with 100 % Segregation and collection along with decentralized processing within the ward. For this GMC has engaged M/S Urban Management Consulting Pvt. Ltd to study the mentioned ward and submit implementation strategies by January, 2023.
Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)	For Guwahati	
	Description	Remarks
	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 Beloritol started by GMC. The technology involved is to produce compost and Refuse Derived Fuel from the mixed waste. Installation of one set of Trommels Modern RTS cum MRF centre: Tender uploading process going on for 3 nos of Modern RTS cum MRF centre: Adabari-150 TPD waste handling capacity cum 100 TPD MAterila Recover Capacity. Old Jail Campus: 150 TPD waste handling capacity cum 100 TPD Material Recovery Capacity. Mathgharia : 100 TPD waste handling capacity cum 25 TPD Material Recovery Capacity. REST OF THE ULBs- Detail is attached at Annexure III
	Detail of MSW treatment facility proposed at GP level =2197 (i) completd : 417, (ii) Under construction :173	
No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills	GUWAHATI- Dumpsite : 1 no. Area of Dumpsite : 121 Bighas or 16.19 Hectare at Village PachimBoragaon: • This Dump site has been closed as per orders of Hon'ble NGT in OA No. 472/2018(Rohit Choudhury Vs. Union of India &Ors) in the month of August, 2021. Presently the Solid waste is transferred to Housefed Land at PachimBoragaon(Belor-toll) which is outside the Eco-Sensitive Zone created for DeeporBeel. Treatment of Legacy waste started from January, 2021 till now 3.61 Lakh Tonnes treated. Tender for Biomining of legacy waste amounting to Rs. 172.5 cr floated as per Administrative Approval from the Govt. Letter to proceed with work given to L1 Bidder Zigma Global Environ Solutions Pvt. Ltd, Erode issued vide letter no. GER/DIV- VI/62?2020/41-A dated 10.06.2022. REST OF THE ULBs-Garbage dumpsite and sanitary landfills for 39 ULBs have been approved under NESIDS, Ministry of DoNER	
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	
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. 39 nos. of garbage traps on these have been installed at various places. REST OF THE ULBs- Intersection and Diversion(IND) is being identified by the ULBs and data is in the process of collection.	

Status of ULB wise Managemnet of Solid Waste	
Staus of Solid Waste Management of the State ULBs (Wet Waste Management, Dry Waste Management, Gap in Solid Waste Processing, Steps taken to mitigate the gap for wet waste) - Details Report at Annexure-IV	
Bio-medical Waste Management :	
Total Bio-medical generation:	1988KG/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 has been granted CTO by PCBA for operation of CBWTF at Kohora Pather, NH-31, Barpeta. The CBWTF has been commissioned. Currently, the Guwahati Municipal Corporation has no Bio-Medical Waste Treatment Facility. An NGO namely Clean Air, collects Medical waste and their disposal plant is located at Sonapur.

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	New location for TSDF has been identified by the Government of Assam in Dibrugarh District. EOI for establishment of TSDF under DBOOT shall be floated by January, 2023. Presently hazardous waste is being sent to Dalmia Cement Plant for co-incineration. PCBA has also initiated communication with West Bengal PCB for sending the hazardous waste to TSDF at Haldia, West Bengal.

VIII **Plastic Waste Management :**

Total Plastic Waste generation:		Rest of ULBs- 43 TPD				
		For Guwahati-120TPD				
Treatment/Measures adopted for reduction or management of plastic waste	For Guwahati					
	(i) Single use plastic has been banned in the city.					
	(ii) Enforcement squads have been formed to enforce the ban and seizure of the single use plastic and for imposing penalties.					
	(iii) Registration of rag pickers collecting plastic, recycles of collected plastics, Recyclers of collected plastics are under process.					
	(iv)NOC issued to private party for collection and transportation of plastic waste from Guwahati on pilot basis for a period of 1 year. One comprehensive plan for Guwahati Municipal Corporation has been submitted to Govt.					
	REST OF THE ULBs- Plastic wastes generated in ULBs are managed through Recyclers/rag pickers, MRFs Cement Plants and construction of roads.					
Details of Alternate Treatment Technology being adopted by the State/UT	Guwahati- Alternative technology for Methanation being studied by GMC.					
Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment	Guwahati: Identification process will be initiated with SPCB. REST OF THE ULBs : Instructions were issued to all ULBs and data is under process of collection. ◦ 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.					
Details of Nodal Officer appointed by Chief Secretary in the State/UT	Principal Secretary to the Govt. of Assam, Environment & Forest Department					
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.					
Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river:	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)	
	Priority-I	3	5	3	1	
	Priority-II	1	-	1	3	
	Priority-III	4	-	1	1	
	Priority-IV	3	-	-	-	
	Priority-V	33	9	1	4	
	Not Polluted	-	30	38	35	
	Total	44	44	44	44	
	Detailed status of water quality of polluted river stretches in Assam (January to December, 2022) is at Annexure-V Action will be taken as per SBM 2.0 under DoH&UA.					
Ground water regulation	As per previous report					
Good irrigation practices being adopted by the State:	As per previous report					

XVI	Rain Water Harvesting	Guwahati: 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/ASFC/15th FC.
XVII	Demarcation of Floodplain and removal of illegal encroachments:	Guwahati: Action taken on unauthorized bridges and removal of encroachment by District Authority and GMC time to time. Presently a joint Survey has started for identification of faulty bridges over rivers in the City. 25 bridges identified for rectification.. To prevent Urban flooding in Guwahati city, the Corporation has started De-siltation works of river channels, flood drains and other drains from January, 2022. 476 nos. priority drains identified with a length of 576 KM. Estimated silt to be removed is 233073 CU. Besides, River channels like Bharalu, Mora- Bharalu, Bahini, Lakhimijan, Bahinii, Baisistha will be cleaned during the De-siltation exercise which has already begun, Super Sucker Machines, dumpers, JCB machines and Barge are being used for the exercise besides manual labour. Pursuant to notification of Nodal Agency for cleaning of river Bharalu, GMC has started desilting works on river Bharalu.
XVIII	Maintaining minimum e-flow of river	Is being maintained in all polluted river stretches as per report received from the concerned Chief Executive Officers of Zilla Parishad.
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 Satpakhali 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.
XX	Development of biodiversity park:	• Parks are 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 and 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. Some of the industries remaining without ETPs are mostly pathological laboratories which generate very small amounts of Waste Water. GUWAHATI- Action initiated and notices served, fines realized under the Guwahati Municipal Corporation Act, 1969 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.

No.	MSW processing facility	Nos.	Capacity (TPD)	Utilization (TPD)	Type of processing
1	Centralized Processing Facilities	54	339.77	166	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	3	33.16%	21.00%	
2	Bongaigaon MB	11	9	4	6	81.82%	150.00%	
3	Dibrugarh MB	35	10	1	100	28.57%	10.00%	
3	Hailakandi MB	2.1	1.7	3	5	80.95%	34.00%	
4	Jorhat MB	21.7	1.2	3	16	5.53%	7.50%	
5	Kokrajhar MB	6.68	4.92	2	18.14	73.65%	27.12%	
6	Morigaon MB	4.4	1	1	1	22.73%	100.00%	
7	Palashbari MB	0.7	0.6	1	4	85.71%	15.00%	
8	Silchar MB	45	20	5	67	44.44%	29.85%	
9	Sibsagar MB	8	4	1	5	50.00%	80.00%	
10	Tezpur MB	17.33	16.6	3	51	95.79%	32.55%	
11	Tinsukia MB	23.28	19.5	4	22.63	83.76%	86.17%	
12	Titabar MB	1	0.8	1	5	80.00%	16.00%	
TOTAL		179.69	89.95	30	327.77	50.06%	27.44%	

N.B: 24 nos of Organic Waste Converters of capacity 0.5 TPD each, total capacity- 12 TPD are made operational in 18 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.

Sl. No.	Name of ULBs	Quantity (Nos.)	Status
1	Barpeta MB	1	Operational
2	Barpeta Rd. M.B.	1	Operational
3	Bilasipara M.B.	1	Operational
4	Chapar MB	1	Operational
5	Dergaon MB	1	Operational
6	Doomdooma M.B.	1	Operational.
7	Gauripur M.B.	1	Operational
8	Goalpara M.B.	2	Operational
9	Golaghat M.B.	1	Operational
10	Jorhat M.B.	2	Operational
11	Nagaon MB	3	Operational
12	Rangia M.B.	1	Operational
13	Sivasagar MB	2	Operational
14	Dhubri MB	2	Operational
15	Digboi M.B.	1	Operational
16	Hojai MB	1	Operational
17	Margherita M.B.	1	Operational
18	Nalbari M.B.	1	Operational
	Total	24	

Under Construction MSW facilities
in the ULBs of Assam

Annexure-III

Sl. No.	MSW treatment facility	Nos.	Designed Capacity (TPD)	ULB Name	Under Construction/ Proposed
1	Waste to Compost	1	0.5	Bokajan M.B.	Under Construction
2	Waste to Compost	1	0.5	Dhekiajuli MB	Under Construction
3	Waste to Compost	2	1	Diphu M.B.	Under Construction
4	Waste to Compost	1	0.5	Haflong M.B.	Under Construction
5	Waste to Compost	1	0.5	Kajalgaon M.B.	Under Construction
6	Waste to Compost	2	1	Karimganj MB	Under Construction
7	Waste to Compost	1	0.5	Lanka MB	Under Construction
8	Waste to Compost	1	0.5	Lumding M.B.	Under Construction
9	Waste to Compost	1	0.5	Mangaldoi MB	Under Construction
10	Waste to Compost	1	0.5	Moriani M.B.	Under Construction
11	Waste to Compost	2	1	N. Lakhimpur MB	Under Construction
12	Waste to Compost	1	0.5	Silapathar M.B.	Under Construction
13	Waste to Compost	1	0.5	Sonari MB	Under Construction

ANNEXURE - IV

STATUS OF SOLID WASTE MANAGEMENT OF THE STATE ULBs:

State Details	Dec-2022
Quantity of waste generated (TPD)	1270
Wet Waste Generated (TPD)	615
Wet Waste Processed (TPD)	169
Dry Waste Generated (TPD)	655
Dry Waste Processed (TPD)	362
Quantity of waste Processed (TPD)	652 (51%)
Total No of wards in 96 ULBs	1138
No of wards where door to door collection exist	1090 (95%)
No of wards where source segregation practiced	463 (41%)

Wet Waste Management:

Out of 615 TPD of wet waste 169 TPD (27%) of wet waste is being processed through organic waste converters (55 nos), pit composting, windrow composting (100 MT plant in Dibrugarh), bio methanation (7.5 MTPD in GMC), drum composting facility in (Bongaigaon)

Sl.No.	Available wet waste processing facilities	Processing Capacity available (TPD)
1	Organic waste converter	25
2	Drum Composting	3
3	Windrow Composting	100
4	Bio Methanation	7
5	Bed Composting/Pit composting	50
Total		185

Dry Waste Management

- Out of 655 TPD of dry waste, 362 TPD is being processed.
- 96 Nos of material recovery facilities/resource recovery centres have been set up in all ULBs under SBM U (Phase one) with average of 1 TPD capacity.
- 3 Nos of Refuse Transfer Station (RTF) with combined Material recovery Facility of 225 TPD is under tendering stage in Guwahati

Sl.No.	Available dry waste processing facility	No. of functional plants	Processing Capacity available (TPD)
1	Material Recovery Facilities/ Resource recovery centres	96	116
2	On outsourcing basis involving ragpickers	-	250
Total			366

Gap in Solid Waste Processing:

Description	December 2022
Total Waste Generation (TPD)	1270
Waste processed (TPD)	652
Gap in TPD	618
Wet Waste	
Generation (TPD)	615
Processed (TPD)	169
Gap (TPD)	446
Dry Waste	
Generation (TPD)	655
Processed (TPD)	362
Gap	293
Inert	
Generation (TPD)	127
Utilized (TPD)	0
Gap	127

STEPS TAKEN TO MITIGATE THE GAP FOR WET WASTE: To address the Gap of 446 TPD in wet waste processing the following steps have been taken

Sl.No.	Processing facility	Nos	Capacity in TPD	Cost in Rs. cr	Source of Fund	Status of work
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Sl.No.	Processing facility	Nos	Capacity in TPD	Cost in Rs. cr	Source of Fund	Status of work
1	Waste to compost for GMC	1	150	17.25	State Budget	The construction will be completed by June, 2023. The output will be Compost & Refuse derived Fuel (RDF).
2	Windrows composting/Pit composting	42	342	39.33	SBM 2.0	Approved under SBM 2.0. 1 st installment released by GOI. DPRs are being prepared
3	Bio Methanation in GMC (Adabari)	1	60	17.07	SBM 2.0	CSWAP submitted to GOI. Reply to observation sent
4	Windrows composting/Pit composting	54	156	17.94	SBM 2.0	Proposal under preparation for sending to GOI
5	Additional amount for civil works, land development, landfill facility, O&M etc for setting up of wet and dry waste processing plant including newly formed 8 ULBs	103	-	233.99	State Budget	Already Budgeted and earmarked
Total			708	325.58		

Gap in Dry Waste: 293 TPD : To address the Gap of 293 TPD in dry waste processing the following steps have been taken

Sl.No.	Processing facility	Nos.	Capacity in TPD	Cost in Rs. cr	Source of Fund	Status of work
1	Material Recovery Facilities including plastic waste management	42	184	20.58	SBM 2.0	42 ULBs approved under SBM 2.0. 1 st installment released. DPRs are being prepared
2	MRF for GMC	3	225	13.26	SBM 2.0	• Tendering process is ongoing
3	MRF for GMC	1	10	-	CSR	• Under construction
4	Material Recovery Facilities including plastic waste management	54	94	7.99	SBM 2.0	• CSWAPs have been prepared for sending to GOI for funding under SBM 2.0
Total		98	513	41.83		

1. **Gap in Inert Waste: 127 TPD :** To address the Gap of inert waste management through construction of scientific landfill site the following steps have been taken

Sl.No.	Processing facility	Capacity in TPD	Cost in Rs. Cr	Source of Fund	Status of work
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IV

Sl.No.	Processing facility	Capacity in TPD	Cost in Rs. Cr	Source of Fund	Status of work
1	Scientific landfill site in 42 ULBs	144	9.36	SBM 2.0	42 ULBs approved under SBM 2.0. 1 st installment released. DPRs are being prepared
2	Scientific Landfill site for GMC	-	11.06	State budget	DPR prepared (16,650 Tonne capacity)
3	Scientific landfill site in 54 ULBs	94	6.11	SBM 2.0	CSWAPs are prepared.
	Total		26.53		

- Site for construction of scientific landfill site has been identified in all the 96 ULBs
- DPR has been prepared for construction of scientific landfill for 50,000 cum in Guwahati for an amount of 11.06 Crore under state government funding. Balance 60 ULBs, construction of landfill site shall be taken under state funding on cluster basis

Bio- Medical Waste Management :

Total Bio-medical generation.	
No. of Hospitals and Health Care Facilities.	
Status of Treatment Facility/CBMWTF	Currently, the Guwahati Municipal Corporation has no Bio-Medical Waste Treatment Facility. An NGO namely Clean Air, collects Medical waste and their disposal plant is located at Sonapur.

Hazardous Waste Management:

Total Hazardous Waste generation.	
No. of Industries generating Hazardous Waste.	No report or complaint from any citizen reported against generation of Hazardous waste generated in the GMC area. Such information received if any will be incorporated in this report.
Treatment Capacity of all TSDFs.	
Average Quantity of Hazardous waste reaching the TSDFs and Treated.	
Details of on-going or proposed TSDF.	

Plastic Waste Management:

Total Plastic Waste generation.	GUWAHATI- 120TPD REST OF THE ULBs-43 TPD
Treatment/Measures adopted for reduction or management of plastic waste.	GUWAHATI- (i) Single use plastic has been banned in the city. (ii) Enforcement squads have been formed to enforce the ban and seizure of the single use plastic and for imposing penalties. (iii) Registration of rag pickers collecting plastic, recycles of collected plastics, Recyclers of collected plastics are under process. (iv) NOC issued to private party for collection and transportation of plastic waste from Guwahati on pilot basis for a period of 1 year. One comprehensive Plan for Guwahati Municipal Corporation has been submitted to Govt. REST OF THE ULBs- Plastic wastes generated in ULBs are managed through Recyclers/rag pickers, MRFs, Cement Plant and construction of roads.

1089883/2023/ENV&FOREST
Details of Alternative Treatment Technology being adopted by the State/UT

	Guwahati: Alternative technology for Methanation being studied by GMC.
Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.	Guwahati: Identification process will be initiated with SPCB. REST OF THE ULBs : Instructions were issued to all ULBs and data is under process of collection.
Details of Nodal Officer appointed by Chief Secretary in the State/UT.	—
Details of meetings carried under the chairmanship of Chief Secretary in the State/UT.	—
Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river.	Action will be taken as per SBM 2.0
Ground water regulation.	Related to Central Ground Water Authority.
Good irrigation practices being adopted by the State.	—
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.
Demarcation of Flood plain and removal of illegal encroachments.	Guwahati: Action taken on unauthorized bridges and removal of encroachment by District Authority and GMC time to time. Presently a joint Survey has started for identification of faulty bridges over rivers in the City. 25 bridges identified for rectification.. To prevent Urban flooding in Guwahati city, the Corporation has started De-siltation works of river channels, flood drains and other drains from January, 2022. 476 nos. priority drains identified with a length of 576 KM. Estimated silt to be removed is 233073 CU. Besides, River channels like Bharalu, Mora- Bharalu, Bahini, Lakhimijan, Bahinii, Baisistha will be cleaned during the De-siltation exercise which has already begun, Super Sucker Machines, dumpers, JCB machines and Barge are being used for the exercise besides manual labour. Pursuant to notification of Nodal Agency for cleaning of river Bharalu, GMC has started desilting works on river Bharalu.
Maintaining minimum e-flow of river.	—
Plantation activities along the rivers.	Forest Department, Govt. of Assam planted trees along the Brahmaputra River in Guwahati city area.
Development of Biodiversity park.	Parks are being improved through AMRUT and GMDA.
Reuse of Treated Water	Action will be taken as per SBM 2.0 & AMRUT 2.0
Model River being adopted by the State & Action proposed for achieving the bathing quality standards.	—

N

Status of preparation of Action Plan by the 13 Coastal States.	—
Regulation of Mining Activities in the State/UT	—
Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring.	GUWAHATI- Action initiated and notices served, fines relized under the Guwahati Municipal Corporation Act, 1969 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.

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c) Water quality Status of Polluted River stretches in Assam (January to December, 2022)

Sl. No.	Name of the River	BOD (mg/l)		Current Priority
		Min	Max	
Priority I				
1	Bharalu river	34.2	38.6	I
2	Borsola beel	24.2	29.4	II
3	Silsako beel	17.0	19.7	III
Priority II				
4	Sorusala beel	23.8	29.6	II
Priority III				
5	Kamalpur beel	26.0	29.6	II
6	Deepor beel	5.0	5.9	V
7	Digboi river	3.0	4.5	V
8	Panchnoi river	2.1	2.7	Not Polluted
Priority IV				
9	Kharasang river	1.8	2.6	Not Polluted
10	Brahmaputra River	2.0	2.8	Not Polluted
11	Pagladia river	2.4	2.9	Not Polluted
Priority V				
12	Buridihing river	1.8	2.8	Not Polluted
13	Disang river	2.0	2.8	Not Polluted
14	Borbeel	2.1	2.8	Not Polluted
15	Gabharu river	2.2	2.8	Not Polluted
16	Mora Bharali river	3.0	3.6	V
17	Puthimari river	2.3	2.8	Not Polluted
18	Baroi river	2.0	2.8	Not Polluted
19	Jia Bharali river	2.2	2.7	Not Polluted
20	Barak river	1.9	2.6	Not Polluted
21	Sonai river	2.0	2.8	Not Polluted
22	Malini beel	2.2	2.9	Not Polluted
23	Bega river	3.0	3.9	V
24	Beki river	2.2	2.8	Not Polluted

Sl. No.	Name of the River	BOD (mg/l)		Current Priority
25	Bhogdoi river	2.1	2.8	Not Polluted
26	Jhanji river	2.1	2.5	Not Polluted
27	Boginadi river	1.9	2.6	Not Polluted
28	Dikrong river	2.1	2.7	Not Polluted
29	Ranganadi river	2.0	2.7	Not Polluted
30	Dhansiri river	2.1	2.8	Not Polluted
31	Kohora river	2.0	2.8	Not Polluted
32	Dikhow river	2.1	2.9	Not Polluted
33	Sankosh river	2.0	2.7	Not Polluted
34	Bordoibum Beelmukh	2.0	2.9	Not Polluted
35	Holudunga beel	2.0	2.8	Not Polluted
36	Diplai beel	1.8	2.8	Not Polluted
37	Samaguri beel	2.3	2.8	Not Polluted
38	Kolong river	2.2	2.7	Not Polluted
39	Killing river	2.0	2.8	Not Polluted
40	Kapili river	2.0	2.9	Not Polluted
41	Son Beel	2.3	2.9	Not Polluted
42	Tengapukhuri	2.4	2.9	Not Polluted
43	Parashali beel	2.2	2.7	Not Polluted
44	Kulsi river	1.9	2.7	Not Polluted

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.**

Water Quality Status of Polluted River Stretches in Assam
(January to December,2022)

Sl. No.	Name of the River Stretches	BOD (mg/l) Maximum	Current Priority
1	Bharalu River	38.6	Priority-I
2	Digboi River	4.5	Priority-V
3	Mora Bharali River	3.6	Priority-V
4	Bega River	3.9	Priority-V
5	Borsola Beel	29.4	Priority-II
6	Silsako Beel	19.7	Priority-III
7	Sorusola Beel	29.6	Priority-II
8	Kamalpur Beel	29.6	Priority-II
9	Deepor Beel	5.9	Priority-V

Water Quality Status of Polluted River Stretches in Assam which are to be delisted from the list
of 44 Nos.

Sl. No.	Name of the River Stretches	Current Priority
1	Panchnoi at NH -52 Crossing, Orang	Not Polluted
2	Kharsang River before confluence with Buridihing River near Kharsang	Not Polluted
3	Brahmaputra River	Not Polluted
4	Pagladia River near Nalbari Town	Not Polluted
5	Baroi River near NH -52 bridge, Biswanath Dist.	Not Polluted
6	Barak River at Panchgram	Not Polluted
7	Beki River at NH-31 Crossing near Barpeta road	Not Polluted
8	Bhogdoi River at Jorhat	Not Polluted
9	Boginadi near NH-52 bridge	Not Polluted
10	Buridihing River at Margherita	Not Polluted
11	Dhansiri River at Golaghat	Not Polluted
12	Dikhow River at Dikhowmukh	Not Polluted
13	Dikrong River near NH-52 bridge, Banderdewa	Not Polluted
14	Disang River at Dillighat	Not Polluted
15	Gabharu River near bridge NH-52, Tumuki, Sonitpur	Not Polluted
16	Jia Bharali River near Biswanath Chariali	Not Polluted
17	Jhanji River at NH crossing, Jorhat	Not Polluted
18	D/s of Kolong River ADP bridge, Nagaon	Not Polluted
19	Kapili River at Dharamtul bridge, NH-37	Not Polluted
20	Killing River in Morigaon dist.	Not Polluted
21	Kohora River at NH crossing, Kohora	Not Polluted
22	Kulsi River at Chaygaon near NH- 37	Not Polluted
23	Puthimari River at NH crossing, Puthimari	Not Polluted
24	Ranganadi at D/S of Hydrel project, Gerukamukh	Not Polluted
25	Sankosh River at Dhubri dist.	Not Polluted
26	Sonai River at Sonai	Not Polluted
27	Borbeel at Jakoi	Not Polluted
28	Bordoibum Beelmukh	Not Polluted
29	Diplai Beel	Not Polluted
30	Holudunga Beel	Not Polluted
31	Malini Beel	Not Polluted
32	Parshali Beel	Not Polluted
33	Samaguri Beel	Not Polluted
34	Son Beel	Not Polluted
35	Tengapukhuri	Not Polluted

[Handwritten Signature]