

National Mission for Clean Ganga
Format for Submission of Monthly Progress Report by States/UTs
For the State of Assam/UT
(Hon'ble NGT in the matter of OA No.673/2018 dated 24.09.2020)

Overall Status of the State:

Assam															
I	<table><tr><td>Total Population</td><td></td></tr><tr><td>Urban Population and Rural Population</td><td>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)</td></tr><tr><td>Estimated Sewage Generation (MLD)</td><td>All ULBs- 809 MLD as per CPCB data on March, 2021</td></tr></table>	Total Population		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- 809 MLD as per CPCB data on March, 2021								
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Estimated Sewage Generation (MLD)	All ULBs- 809 MLD as per CPCB data on March, 2021														
II															
III	Details of Sewage Treatment Plant: No. of polluted river stretches identified by CPCB in Assam - 44 nos. Polluted River Stretches in Urban Areas - 19 nos. Construction of 11 STPs is in process. As per PCBA, there is no requirement of STP in any of the polluted Water Body under P&RD Deptt. <table><tr><td>Existing no of STPs and Treatment Capacity (in MLD) :</td><td>NIL</td></tr><tr><td>Capacity Utilization of existing STPs:</td><td>-</td></tr><tr><td>MLD of sewage being treated through Alternate Technology:</td><td>-</td></tr><tr><td>Gap in Treatment Capacity in MLD:</td><td>100% (for all ULBs)</td></tr><tr><td>No of Operational STPs:</td><td>-</td></tr><tr><td>No of Complying STPs:</td><td>Guwahati- 3 nos.- Silsakoo Beel (65 MLD), Borsola Beel (62 MLD) and Pachim Boragaon (60MLD) Rest of the ULBs- 8 nos. Nagaon (2MLD), Mangaldoi (2 MLD), Tezpur (2MLD), Jorhat (2MLD), Silchar (2MLD), Tinsukia (3 MLD), Dhubri (2MLD) and Bongaigaon (3 MLD)</td></tr><tr><td>No of Non-complying STPs:</td><td>8 nos.</td></tr></table>	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:	-	No of Complying STPs:	Guwahati- 3 nos.- Silsakoo Beel (65 MLD), Borsola Beel (62 MLD) and Pachim Boragaon (60MLD) Rest of the ULBs- 8 nos. Nagaon (2MLD), Mangaldoi (2 MLD), Tezpur (2MLD), Jorhat (2MLD), Silchar (2MLD), Tinsukia (3 MLD), Dhubri (2MLD) and Bongaigaon (3 MLD)	No of Non-complying STPs:	8 nos.
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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
06.01.2022 and forwarded to DEA. DEA has forwarded the DPR to JICA on 9th May, 2022. JICA Mission Team alongwith officials from MEA and Embassy of Japan visited the STP sites on 30th and 31st May, 2022. REST OF THE ULBS- STP at Nagaon (2MLD) : Tender agreement signed by contractor M/s SS Engineering Corporation and final work order issued. Work will be grounded shortly. Time of completion-December, 2023(approx)				

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	Mangaldoi	2.00 MLD	AUWS & SB has submitted the DPRs and Govt. is taking necessary action for considering the proposal under SOPD.	Approximately 2 years after sanctioning the DPR
2	Silchar	2.00MLD	AUWS & SB has submitted the DPRs and Govt. is taking necessary action for considering the proposal under SOPD.	
3	Jorhat	2.00 MLD	Construction of 5 nos. of STPs are taken into consideration under SBM 2.0. Preliminary Project Report (PPR) alongwith City Sanitation Action Plan for same has been sent to CPHEEO, Gol for vetting. After clearance from CPHEEO, the proposals will be sent to MoHUA, Gol with due approval from State Level Technical Committee of SBM(U), Assam.	Approximately 2 years after sanctioning the DPR
4	Tezpur	2.00 MLD		
5	Bongaigaon	3.00 MLD		
6	Dhubri	2.00MLD		
7	Tinsukia	3.00MLD		
8	Kamalpur Beel (Kamrup) Priority-III	No STP is proposed but as proposed by PCBA, installation of mechanized aerator is suggested	PWD(B) Department has accorded Technical sanction for an amount of Rs. 4.19 Crore of DPR for installation of Mechanized Aerator. The proposal was sent to the Finance Standing Committee for concurrence for Administrative Approval for calling tender by CPRD. Finance Department returned the proposal with a request to re-submit the same during the financial year 2022-23. Now it has been sent to Finance Standing Committee for concurrence.	NA

9	Pagladia River, Nalbari Priority-IV	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. The length of the polluted stretch of Pagladia River is approximately 4 KM with an area of 16 Sq. km from Balikuchi to Khudra Sankara; falls in rural areas only.	IIT Guwahati has been requested to re-visit the DPR as per observation of the PCBA. Estimated cost of the project as per DPR is Rs. 273.94Lakh.	
9	Kharsang,Tinsu kia Priority-IV	As per earlier report of PCBA, Kharsang, 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 Kharsang River stretch with remedial activities amounting to Rs.1.60 Crore. The length of the polluted stretch of Kharsang River is approximately 0.6 km with an area of 1.0 Sq. km .	IIT Guwahati submitted a proposal with other terms and condition for preparation of DPR at the estimate of Rs. 5.25lakhs. P&RD Deptt is taking necessary action for release 50% of estimated cost of DPR to IIT Guwahati. In the meantime the CPRD has called for fresh report from the concerned districts on cleaning, plantation and SW&PW Management on this polluted river stretch during last 3 years for onward submission to the CPCB for deleting this polluted river stretch before preparing DPR. Report from CPRD awaited.	
10	Panchnoi, Udalguri Priority-III	As per earlier report of PCBA, Panchnoi 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 Panchnoi River stretch with remedial activities amounting to Rs.1.90 Crore. The length of the polluted stretch of Panchnoi River is approximately 1.5 KM with an area of 1.37 Sq. km.The stretch identified as polluted is from No.2 Saikia Chubtri to Garubandha Khankhata B	IIT Guwahati submitted a proposal with other terms and condition for preparation of DPR at the estimate of Rs. 4.00lakhs. P&RD Deptt is taking necessary action for release 50% of estimated cost of DPR to IIT Guwahati. In the meantime the CPRD has called for fresh report from the concerned districts on cleaning, plantation and SW&PW Management on this polluted river stretch during last 3 years for onward submission to the CPCB for deleting this polluted river stretch before prepaing DPR. Report awaited.	
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.				
Details of proposed STPs in Guwahati				
1	Silsakoo Beel	65 MLD	Approval regarding revalidation of DPR has been received from MoHUA dated 06.01.2022 and under submission to DEA for final clearance.	2028
2	Back side of Nepali Mandir (Near Borsola Beel)	62 MLD		
3	Paschim Boragaon	60 MLD(as per revised calculation)		

IV

Details of Industrial Pollution:	
No of industries in the State:	119 (verification of all industries are under process. Updated data shall be provided in next MPR)
No. of water polluting industries in the State :	119
Quantity of effluent generated from the industries in MLD:	26.14
Quantity of Hazardous Sludge generated from the Industries in TPD:	35.3
Number of industrial units having ETPs:	All units are having ETP
Number of industrial units connected to CETP:	Nil
Number of Existing ETPs	Data being updated
Number and total capacity of ETPs (details of existing/under construction/proposed)	Data being updated
Compliance status of the ETPs	90% compliance (approximately). Action being initiated against defaulting units.
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

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 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- 684TPD		
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	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)		Organic Waste Converter, Capacity: 2.5 TPD(one No),Bhangagarh, the Plant is operational.		
	Biomethanation		Biomethanation plant running at Chetribari: Capacity 5.0 TPD. Output-800 unit-Running.		
	MRF		Material Recovery Facility(MRF) is functioning at (i)Zoo Road, (ii)near GMCH Bhangagarh (iii) VIP Road (iv) Chatribari.		
	For Other 95 ULBs : MSW processing facilities-33nos (Details is at Annexure-I) Not installed in Rural Areas.				
Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap>20%)	GUWAHATI- Gap is > 10%. GMC is planning to construct Grabage Transfer Stations cum decentralized plants (new) at (i) Adabari (ii) Old Jail Campus (iii) Purabi Dairy, Sixmile (iv) Udalbakra (v) Madgharia (vi) Hengrabari Kjhadi Campus. Civil work at Adabari already started. DPR for Adabari Decentralized Plant cum Garbage Transfer Station prepared. For Hengrabari, boundary wall work started. The consultant has joined and the final designs to the DPRs being given. Rest of 95 ULBs-All ULBs have prepared City Solid Waste Action Plan under SBM 2.0 to bridge Gap.				
No. and capacity of C &D waste processing plants in TPD (existing, proposed and under construction)	GUWAHATI- Construction and Demolition waste processing plant not installed, but recycling done by private operators. GMC has begun the process of registration of C&D waste recyclers. 3 nos. of Private Parties have been registered under GMC for recycling of C&D waste. Report on collection and disposal of C&D waste for the month of April, 2022 is NIL. REST OF THE ULBs-NIL				
Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source	For 95 ULBs : Total wards : 1005. Door to door collection :974 wards Source segregation: 428 wards. 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.				
	For Guwahati				
	Description		Remarks		
	Total no. of wards		60		
	No. of Wards having door to door collection service practicing segregation at source		Door to door collection : 60 Wards.		
			Source Segregation : 60 @ 40% to 50% efficiency. Currently 40% of waste is segregated at source. NGOs engaged in door to door collection and segregation of waste, 86 Nos. of NGOs engaged for the purpose for the month of April, 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. Machinery engaged: JCB=9 Nos, Dumper=11 Nos, Compactors=12 Nos, Mini Loaders=8 Nos, Auto Trippers=280 Nos., Big Cesspool-2, Mini Cesspool-3, Desilting Machine-25.		
Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)	For Guwahati				
	Description		Remarks		
	Biomethanation		As stated above		
	Organic Waste Converter		Nil		
	Composting		Composting : Tender for Solid Waste Processing Plant of 150 TPD to produce RDF and Compost floated, Tender value-Rs.35.00crore. Administrative Approval has been received. Letter of acceptance issued on 09.05.2022 to M/S Geron Engineering Pvt. Ltd. Gurgaon Haryana.On receipt of Performance Guarantee, Agreement signed on 24.05.2022 and orders to proceed with the work given on 25th May, 2022.		
	For other ULBs				
	MSW treatment facility	Nos.	Designed Capacity (TPD)	ULB Name	Under construction/proposed
	Waste to compost	1	0.5	Barpeta MB	Proposed
	Waste to compost	1	0.5	Barpeta Road MB	Proposed
	Waste to compost	1	0.5	Bilasipara MB	Proposed

	Waste to compost	1	0.5	Bokajan MB	Proposed
	Waste to compost	1	0.5	Chapar MB	Proposed
	Waste to compost	1	0.5	Dergaon MB	Proposed
	Waste to compost	1	0.5	Dhekiajuli MB	Proposed
	Waste to compost	2	1	Dhubri MB	Proposed
	Waste to compost	1	0.5	Digboi MB	Proposed
	Waste to compost	2	1	Diphu MB	Proposed
	Waste to compost	1	0.5	Doomdooma MB	Proposed
	Waste to compost	1	0.5	Gauripur MB	Proposed
	Waste to compost	2	1	Goalpara MB	Proposed
	Waste to compost	1	0.5	Golaghat MB	Proposed
	Waste to compost	1	0.5	Haflong MB	Proposed
	Waste to compost	1	0.5	Hojai MB	Proposed
	Waste to compost	1	0.5	Kajalgaon MB	Proposed
	Waste to compost	2	1	Karimganj MB	Proposed
	Waste to compost	1	0.5	Lanka MB	Proposed
	Waste to compost	1	0.5	Lumding MB	Proposed
	Waste to compost	1	0.5	Mangaldoi MB	Proposed
	Waste to compost	1	0.5	Margherita MB	Proposed
	Waste to compost	1	0.5	Mariani MB	Proposed
	Waste to compost	2	1	N. Lakhimpur MB	Proposed
	Waste to compost	3	1.5	Nagaon MB	Proposed
	Waste to compost	1	0.5	Nalbari MB	Proposed
	Waste to compost	1	0.5	Rangia MB	Proposed
	Waste to compost	1	0.5	Silapathar MB	Proposed
	Waste to compost	2	1	Sivsagar MB	Proposed
	Waste to compost	1	0.5	Sonari MB	Proposed

No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills	For Guwahati: Dumpsite : 1 no. Area of Dumpsite : 121 Bighas or 16.19 Hectare at Village Pachim Boragaon: 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 Pachim Boragaon(Belor-toll) which is outside the Eco-Sensitive Zone created for Deepor Beel. Treatment of Legacy waste started from January, 2021 till now 190000.00Tonnes treated. Pursuant to tenders for Bio-mining of legacy waste at old dumping site, LOA has been issued to M/S Zigma Global Environ Solutions Pvt. Ltd, Erode on 18.05.2022. Land at Sonaiguli : The site has been abandoned since it is found very deep and situated between two high mass of land (hillocks). Presently no waste is transferred to this site. REST OF THE 95 ULBs- 13 nos of ULBs are having uncontrolled Garbage dumpsite. Govt. has taken steps for identification of land.								
No. and area (in acres) of legacy waste within 1 km buffer of both side of the rivers	For 95 ULBs: 3 (three) nos and 5.4 acres (area) of legacy Waste. Instructions have been issued to Rangia MB, Dibrugarh MB and Raha MB for shifting of Dumpsite. Proposals being proposed for Legacy Waste Management in 4 ULBs viz, Dibrugarh, Nagaon, Silchar and Jorhat under state Budget. Guwahati : 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	Lakhimpur ZP: 1 drain falls in Boginodi River 6 drains fall in Ronganodi River 9 drains fall in Dikrong River. These drains/canals are planned to clean and GP/Block are asked to undertake works under MGNREGA. The Zilla Parishads are also instructed to take similar actions accordingly. Survey is going on in other Zilla Parishads Rest of the ULBs : Instructions were issued to all ULBs and data is under process of collection. <table border="1"> <thead> <tr> <th colspan="2">For Guwahati</th></tr> <tr> <th>Description</th><th>Remarks</th></tr> </thead> <tbody> <tr> <td>No. of drains falling into rivers</td><td>39 nos.</td></tr> <tr> <td>No. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers</td><td>39 nos. of garbage traps on these have been installed at various places.</td></tr> </tbody> </table>	For Guwahati		Description	Remarks	No. of drains falling into rivers	39 nos.	No. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers	39 nos. of garbage traps on these have been installed at various places.
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Status of ULB wise Managemnet 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
Guwahati	575	7.5	1. Bio-methanation plant. 2. Organic Waste Converter	7.5 TPD	
95 nos. ULBs	684	374	- Centralized Plant-30 Nos. - Pit Composting-59121Nos. - MRF- 144 Nos.	1140.14	38 Nos. will be completed within 3 Months.
For 95 ULBs : Segregated Waste is being collected only from 42% 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.					
All RLBs	No data maintained	No data maintained	Nil	No MSW facilities	Guidelines issued for taking up such facilities under XV FC (tied) like MCF at GP level & Mini MCF at villagae in convergence with PHE Deptt

VI **Bio-medical Waste Management :**

Total Bio-medical generation:		1042.91KG/day
No. of Hospitals and Health Care Facilities		44
Status of Treatment Facility/CBMWTF:	1 Operational (1 CBWTF located at Panikhati, Guwahati which covers Kamrup, Kamrup (M), Nalbari, Baksa, Nagaon and Morigaon districts). M/s Ksepya Environment Management Private Limited has been granted CTE by PCBA for establishment of CBWTF at Kohora Pathar, NH-31, Barpeta. The installation of CBWTF is almost completed and CTO application has been received by PCBA. The CBWTF was planned to be commissioned by June, 2022, but has been delayed due to recent floods. The CBWTF is expected to be commissioned by July, 2022. Another CBWTF is being proposed at Tezpur, Sonitpur district. The proponent has submitted application for Consent to Establish. The applicant has been directed to obtain EC from SEIAA. Currently, GMC has no Bio-medical Waste Treatment Facility. An NGO namely Clean Air collects Medical waste and their disposal plant is located at Sonapur.	

VII **Hazardous Waste Management :**

Total Hazardous Waste generation:	35.3 TPD (utilized, treated and disposed by the occupiers themselves)
No. of Industries generating Hazardous waste	10 (Data being updated)
Treatment Capacity of all TSDFs	Nil
Avg. Quantity of Hazardous waste reaching the TSDFs and Treated	Nil
Details of on-going or proposed TSDF	Work Order has been issued to M/s BEIL Infrastructure Limited for establishment of TSDF. M/s BEIL Infrastructure Limited has engaged M/s Eastern Envo Project for conducting study on Hazardous waste generation and detailed plan for collection and transportation of hazardous waste. M/s Eastern Envo Protect has started visiting the industries for the study. Field visits of industries has been completed in most of the districts and only few flood affected districts are remaining. As informed by the Study team, the HW generation found till date is not sufficient to make the TSDF economically viable. However final report from M/s BEIL is still awaited.

VIII **Plastic Waste Management :**

Total Plastic Waste generation:	43 TPD (For 95 ULBs)				
	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 GMC has been prepared and in process.				
	REST OF THE ULBs- Plastic wastes generated in ULBs are managed through Recyclers/rag pickers,MRFs Cement Plants and construction of roads.				
	◦ Mini MCF in each village and MCF in each GP level is under construction under 15th FC tied grant.				
Details of Alternate Treatment Technology being adopted by the State/UT	◦ 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. 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. These drains/canals are planned to clean and GP/ Block are asked to undertake works under MGNREGA. ◦ 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 matter. Last meeting was held on 18.11.2020 under the Chairmanship of Chief Secretary, Assam to review the Progress in the matter and expedite implementation of all Action Plans. Subsequently the matter was reviewed during a discussion held on 15.03.2021 with GDD, Revenue, Environment & Forest, PCBA, DC (M) Commissioner, GMC and CEO, GMDA.				
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 May, 2022) is at Annexure-II Cleaning and dredging activities as per the Action Plan has been started in Bharalu River and Silsako Beel. 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 w.e.f. 8th March, 2022. 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 233073CU. River channels like Bharalu, Mora-Bharalu, Bahini, Lakhimijan, Bahini, Basistha 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. River Bharalu has been adopted as Model River for rejuvenation and GMC is appointed as implementing agency.GMC has started desilting works on river Bharalu (report on action for river Bharalu is placed at Annexure-III)
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, Amorphur 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 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. GUWAHATI- Action initiated and notices served, fines realized under the GMC 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. RLB: in Kamrup and Udalguri ZPs, pollution and law violators are fined Rs. 500/-

Details of MSW facilities & MRF

Sl. No.	MSW processing facility	Nos.	Capacity (TPD)	Utilization (TPD)	Type of processing
1	Centralized Processing Facilities	31	488.14	192	Waste to Compost
2	Decentralized/Vermi/Window/Pit Composting	59121	239	56	Waste to Compost
3	Material Recovery Facility	144	430	157	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	1.26	1	15	66.32%	8.40%	
2	Bongaigaon MB	10.5	9.5	4	30	90.48%	31.67%	
3	Dibrugarh MB	36	17	1	100	47.22%	17.00%	
3	Hailakandi MB	2.1	1.7	3	5	80.9%	34.00%	
4	Jorhat MB	18.2	3.4	3	16	18.68%	21.25%	
5	Kokrajhar MB	6.68	4.72	2	18.64	70.66%	25.32%	
6	Morigaon MB	1.4	1	1	0.5	71.43%	200.00%	
7	Palashbari MB	0.6	0.3	1	0.5	50.00%	60.00%	
8	Silchar MB	45	25	5	67	55.56%	37.31%	
9	Sibsagar MB	8	4	1	10	50.00%	40.00%	
10	Tezpur MB	16.55	7.3	4	151	44.11%	4.83%	
11	Tinsukia MB	23.44	15	4	16.5	63.99%	90.91%	
12	Titabar MB	1.1	0.8	1	5	72.73%	16.00%	
TOTAL		174.47	90.98	31	430.64	52.15%	21.13%	

B) Decentralized Plants: 59121 nos. Total Capacity: 239 TPD Utilization: 56 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 59121 nos. of such households' backyard composting with total intake capacity of 239 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 56MT.

C) Material Recovery Facility: 144 nos. Total Capacity: 430 TPD. Utilization: 157 TPD, management/treatment of dry waste depends on quantity of daily collection of dry waste. At present, on an average 157 TPD of dry waste has been managed.

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

Sl. No.	Name of the River	BOD (mg/l)		Current Priority
		Min	Max	
Priority I				
1	Bharalu river	37.4	38.6	I
2	Borsola beel	28.6	29.4	II
3	Silsako beel	19.2	19.7	III
Priority II				
4	Sorusala beel	28.4	29.6	II
Priority III				
5	Kamalpur beel	28.7	29.6	II
6	Deepor beel	5.3	5.9	V
7	Digboi river	3.8	4.5	V
8	Panchnoi river	2.4	2.7	Not Polluted
Priority IV				
9	Kharasang river	2.1	2.6	Not Polluted
10	Brahmaputra River	2.2	2.8	Not Polluted
11	Pagladia river	2.4	2.9	Not Polluted
Priority V				
12	Buridihing river	2.4	2.8	Not Polluted
13	Disang river	2.4	2.8	Not Polluted
14	Borbeel	2.6	2.8	Not Polluted
15	Gabharu river	2.2	2.8	Not Polluted
16	Mora Bharali river	3.3	3.6	V
17	Puthimari river	2.6	2.8	Not Polluted
18	Baroi river	2.2	2.8	Not Polluted
19	Jia Bharali river	2.2	2.7	Not Polluted

Sl. No.	Name of the River	BOD (mg/l)		Current Priority
20	Barak river	2.0	2.6	Not Polluted
21	Sonai river	2.6	2.8	Not Polluted
22	Malini beel	2.6	2.9	Not Polluted
23	Bega river	3.3	3.9	V
24	Beki river	2.4	2.8	Not Polluted
25	Bhogdoi river	2.6	2.8	Not Polluted
26	Jhanji river	2.4	2.5	Not Polluted
27	Boginadi near	2.4	2.6	Not Polluted
28	Dikrong river	2.3	2.7	Not Polluted
29	Ranganadi river	2.4	2.7	Not Polluted
30	Dhansiri river	2.4	2.8	Not Polluted
31	Kohora river	2.6	2.8	Not Polluted
32	Dikhow river	2.5	2.9	Not Polluted
33	Sankosh river	2.5	2.7	Not Polluted
34	Bordoibum Beelmukh	2.7	2.9	Not Polluted
35	Holudunga beel	2.5	2.8	Not Polluted
36	Diplai beel	2.3	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	2.4	2.8	Not Polluted
40	Kapili river	2.8	2.9	Not Polluted
41	Son Beel	2.6	2.9	Not Polluted
42	Tengapukhuri	2.6	2.9	Not Polluted
43	Parashali beel	2.2	2.7	Not Polluted
44	Kulsi river	2.4	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.

Bharalu River Channel

Length : 6.2 KM

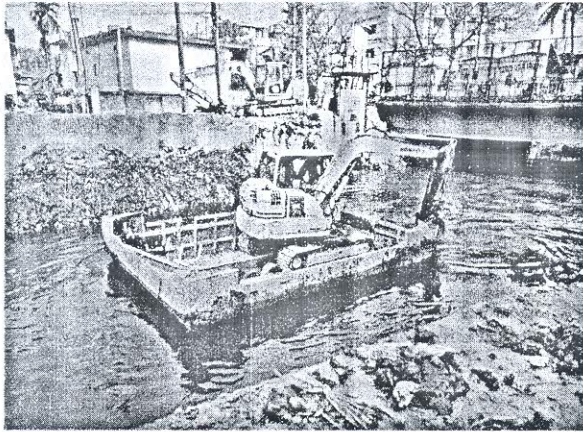
GMC have already engaged Poclain (PC) mounted Barge from 4th Dec,2021 in eight locations to dredged out the silt of five major river channels. In some locations where barge cannot be engaged, labours has to be engaged. Locations have been earmarked where barge and labourers can be engaged. During the de-siltation process, it has been observed that the river channel has been treated as garbage dumpsites by people and lots of plastic related materials instead of silt has been found.. As a result of which, from practical point of view, the estimated amount may be higher to 10% because labours has to be engaged to pick up the plastic related garbages where JCB cannot be engaged and amount of silt extracted will be low.

Current Position of extraction of silt from Bharalu River Channel in different locations till 22nd May, 2022:

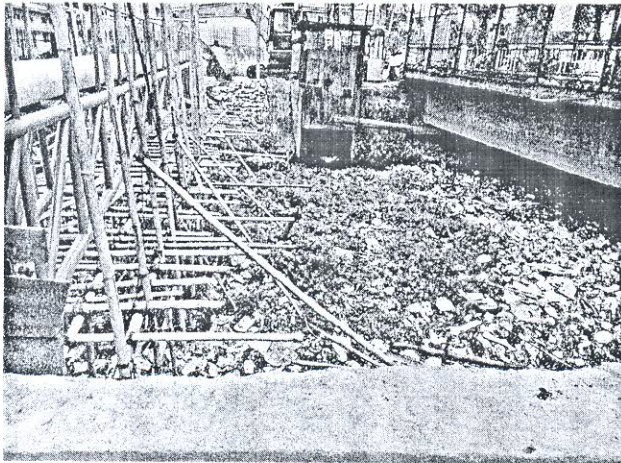
Extraction Mode	No. of trips.	Amount of Silts. (in Cum)
By Dumpers	1535 trips	13,047.50 cum
By DI Pick up Van	15 trips	37.50 cum

Total= 13,085.00 cum

Bharalu river at Jonali point on 4th January, 2022



On 30th March, 2022, lots of garbages accumulated due to construction of bridge to carry water pipeline. GMC have requested the concerned personnel there to clear the bamboo so that water can flow freely.



On 5th April, 2022 again GMC have engaged barge to clear it.

