

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	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)
II	Estimated Sewage Generation (MLD)	All ULBs- 809 MLD as per CPCB data on March, 2021
III	Details of Sewage Treatment Plant:	
	Polluted River Stretches in Urban Areas -19nos. Construction of 8 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:	-
	No of Complying STPs:	Guwahati- Approval of revised DPR for construction of 3 nos. of STPs for 187 MLD under JICA Project is currently with DEA after due recommendation of MoHUA. On receipt of clearance in final from DEA, work can commence.
	No of Non-complying STPs:	Rest of the ULBs- Tender Process of 1 STP for 2.00MLD at Nagaon is in final Stage. For another 4 STPs of 2.00 MLD each at Silchar, Jorhat, Mangaldoi and Tezpur, tendering process is on hold due to Model Code of Conduct due to Municipal Election.

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
For GUWAHATI- NIL				
REST OF THE ULBS- NIL				

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	Tendering process is on hold due to Model Code of Conduct due to Municipal Election.	Approximately 2 years after sanctioning the DPR
2	Tezpur	2.00 MLD	Tendering process is on hold due to Model Code of Conduct due to Municipal Election.	Approximately 2 years after sanctioning the DPR
3	Nagaon	2.00 MLD	Financial Bid of the re-tender was opened on 21.01.2022 and is under hold due to Model Code of Conduct due to Municipal Election	Approximately 2 years after allotment of work
4	Jorhat	2.00 MLD	Tendering process is on hold due to Model Code of Conduct due to Municipal Election.	Approximately 2 years after sanctioning the DPR
5	Silchar	2.00 MLD	Tendering process is on hold due to Model Code of Conduct due to Municipal Election.	Approximately 2 years after sanctioning the DPR
6	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.	NA

7	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 submitted a proposal with other terms and condition for preparation of DPR at the estimate of Rs. 5.75lakhs. 50% of estimated cost of DPR has been paid to IIT Guwahati for preparation of DPR.	
8	Kharsang, Tinsukia 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.	
9	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 Chubri 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 preparing 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:	226 (Operating units: 197, Units Closed Down: 25, Closed by own: 4)
No. of water polluting industries in the State :	184
Quantity of effluent generated from the industries in MLD:	23.065 MLD
Quantity of Hazardous Sludge generated from the Industries in TPD:	7.9 TPD
Number of industrial units having ETPs:	184
Number of industrial units connected to CETP:	Nil
Number of Existing ETPs	184
Number and total capacity of ETPs (details of existing/under construction/proposed)	41.1 MLD
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 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- 664TPD 10.4TPD (Nagaon-1.02TPD, Udalguri-0.38TPD, Lakhimpur-1TPD, Sonitpur-8TPD)		
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.	

etc	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 Zoo Road, near GMCH Bhangagarh and VIP Road transfer station.
	For Other 95 ULBs: 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%. (two) nos. of Garbage Transfer Stations being developed alongwith Solid Waste Processing Plant at- measuring 2.95 bighas at Old Jail Campus, Fancy Bazar, Guwahati. (i) Land measuring 2.00bighas at Purabi Dairy, Sixmile, Guwahati. (ii) Land 3 (three) nos. of Garbage Transfer Stations at- (i) Adebari (own land of GMC) of 5.00 bigha. (ii) Land measuring 2 Katha at Udalbakra. Material Recovery Facility in association with HDFC Bank being set up in Adebari. Proposal for MRF in Fancy Bazar submitted to MoHUA for additional funding. REST OF THE ULBs- 62 ULBs have prepared Action plan to bridge the 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 January, 2021 is NIL. REST OF THE ULBs-Nil Not installed in Rural Areas.	
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 : 912. Door to door collection : 821 wards Source segregation: 402 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	31
No. of Wards having door to door collection service practicing segregation at source	Door to door collection : 31 Wards.	
	Source Segregation : 31 @ 40% to 50% efficiency. Currently 50% 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 December,2021. 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=8 Nos, Dumper=12 Nos, Compactors=8 Nos, Mini Loaders=8 Nos, Auto Trippers=226 Nos., Big Cesspool-4, Mini Cesspool-11, Desilting Machine-33.	
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	RDF-Compost Plant has been proposed with capacity of treating 150 TPD waste per day in phase I. Administrative Approval of the Project has been moved. Meanwhile Govt. has constituted a Committee to study and suggest best available technology for plant like methanation. The technology is under active study by the Corporation. The Kankyo Group of Companies has submitted an offer to establish one Methanation Plant of 300 TPD capacity at the cost of Rs. 75.00 Crore. GMC will provide developed land and will supply solid waste. The company will produce Methanol. The proposal received is being currently under vetting.
	Proposed	Tender for Solid Waste Processing Plant of 150TPD to produce RDF and Compost floated. As per direction of Government, the GMC has been studying other option like Metanation Plant.

For other ULBs				
MSW treatment facility	Nos.	Designed Capacity (TPD)	ULB Name	Under construction/proposed
Waste to compost	1	100	Dibrugarh MB	Completed
Waste to compost	1	15	Jorhat M.B.	Completed
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	Doomdooa 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. Tender for Biomining of legacy waste amounting to Rs. 172.5 crores floated as Administrative Approval from Govt. Technical evaluation of the bids being done. 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. 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><tr><th colspan="2">For Guwahati</th></tr><tr><th>Description</th><th>Remarks</th></tr><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></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.
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.												

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	664	427	• Centralized Plant-30 Nos. • Pit Composting-59121Nos. • MRF- 144 Nos.	1057.14	40 Nos. Will be completed within 3 Months.
For 95 ULBs : Segregated Waste is being collected only from 45% 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	Guidelines issued under XV FC	No MSW facilities	Guidelines issued for taking up such facilities under XV FC (tied)

VI

Bio-medical Waste Management :

Total Bio-medical generation:	1440.14KG/day
No. of Hospitals and Health Care Facilities	90 (02 HCFs closed down)
Status of Treatment Facility/CBMWTF:	1 Operational (1 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 CTE by PCBA for establishment of CBWTF at Kohora Pathar, NH-31, Barpeta. 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:	60.19TPD (Utilized, treated and disposed by the occupiers themselves)
No. of Industries generating Hazardous waste	15
Treatment Capacity of all TSDFs	Nil
Avg. Quantity of Hazardous waste reaching the TSDFs and Treated	Nil

Details of on-going or proposed TSDF	M/s BEIL Infrastructure Limited has accepted the LOA issued by PCBA and requested for some modifications in the draft contract agreement. The final contract agreement shall be signed as soon as it is finalized. M/s BEIL has already initiated preliminary studies for preparation of DPR.
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VIII **Plastic Waste Management :**

Total Plastic Waste generation:	35 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. A meeting was held in November under the Chairmanship of the Chief Secretary, Assam.				
	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	◦ In Lakhimpur ZP, litter bin has been provided to collect plastic waste. Further, one plastic store house at each model village has been constructed to gather the plastic waste collected at the litter bin. ◦ In other Zilla Parishads, assessment is still going on. Guidelines issued for constructing mini MCF in each village and central MCF at GP level under 15th FC tied grant.				
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 Svasagar 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, 2021 to January, 2022) is at Annexure-II Cleaning and dredging activities as per the Action Plan has been started in Bharalu River				
Ground water regulation	Detailed Report is at Annexure A				
Good irrigation practices being adopted by the State:	• In Tinsukia ZP, irrigation practices for agricultural purpose have been carried out in Hoolowgaon (Uttar Tupsingh) and Borjiya GP under Sadia Dev Block. Agri Bandh and Ring Bandh are constructed for preventing excess flow of water to agricultural field. • In Kamrup and Udalguri District, certain schemes such as Lift Irrigation Scheme (LIS), Flow Irrigation Scheme (FIS) and Deep Tube well (DTW) have been taken up by Irrigation Department in collaboration with Central Govt. • Various Awareness programs has been taken up in other areas.				

XVI	Rain Water Harvesting	Guwahati : Made applicable as per Guwahati Building Bye-Laws 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, proposals have been made for taking up of schemes under MGNREGA/ASFC/15th FC.
XVII	Demarcation of Floodplain and removal of illegal encroachments:	Not Applicable
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 improvised 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. Being done as per report of the concerned CEO.
XXII	Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:	The Govt. of Assam has decided to adopt 'Bharalu River' as Model River and will notify very shortly.
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. 25 units have been closed down already. GUWAHATI- Action initiated and notices served. 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. 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	30	388.14	198	Waste to Compost
2	Decentralized/Vermi/Window/Pit Composting	59121	239	62	Waste to Compost
3	Material Recovery Facility	144	430	167	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	Hailakandi MB	2.4	1.6	3	5	66%	32.00%	Vermi-Compost (2+2=4) TPD & Pit Composting= 1 TPD
4	Jorhat MB	17.5	4.5	3	16	25.71%	28.12%	
5	Kokrajhar MB	6.68	4.72	2	18.64	70.66%	25.32%	
6	Morigaon MB	1.4	1	1	0.5	200.00%	50.00%	
7	Palashbari MB	0.6	0.3	1	0.5	50.00%	60.00%	
8	Silchar MB	150	120	5	67	80%	74.62%	SLRM Center=53TPD (Vermi-Compost=40 TPD, Bed Compost=13 TPD)
9	Sibsagar MB	8	4	1	10	50.00%	40.00%	
10	Tezpur MB	19	11	4	151	57.89%	7.28%	
11	Tinsukia MB	23	15	4	16.5	65.22%	90.91%	
12	Titabar MB	1.2	0.9	1	5	75%	18.00%	
TOTAL		242.18	173.78	30	388.14	71.75%	44.77%	

B) Decentralized Plants: 59121 nos. Total Capacity: 239 TPD Utilization: 62 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 62MT.

C) Material Recovery Facility: 144 nos. Total Capacity: 430 TPD. Utilization: 167 TPD, management/treatment of dry waste depends on quantity of daily collection of dry waste. At present, on an average 167 TPD of dry waste has been managed.

c) Water quality Status of Polluted River stretches in Assam (January, 2021 to January, 2022)

Sl. No.	Name of the River	BOD (mg/l)		Current Priority
		Min	Max	
Priority I				
1	Bharalu river	30.4	37.4	I
2	Borsola beel	24.4	29.4	II
3	Silsako beel	14.0	19.2	III
Priority II				
4	Sorusala beel	24.6	29.6	II
Priority III				
5	Kamalpur beel	26.1	29.6	II
6	Deepor beel	2.8	5.3	V
7	Digboi river	2.8	3.8	V
8	Panchnoi river	1.2	2.7	Not Polluted
Priority IV				
9	Kharasang river	2.0	2.6	Not Polluted
10	Brahmaputra River	2.0	2.8	Not Polluted
11	Pagladia river	1.6	2.6	Not Polluted
Priority V				
12	Buridihing river	1.8	2.8	Not Polluted
13	Disang river	1.6	2.9	Not Polluted
14	Borbeel	2.0	2.8	Not Polluted
15	Gabharu river	1.6	2.8	Not Polluted
16	Mora Bharali river	1.6	3.6	Priority V
17	Puthimari river	2.0	2.8	Not Polluted
18	Baroi river	1.6	2.8	Not Polluted
19	Jia Bharali river	1.6	2.7	Not Polluted
20	Barak river	2.0	2.7	Not Polluted
21	Sonai river	2.1	2.8	Not Polluted
22	Malini beel	2.3	2.9	Not Polluted
23	Bega river	2.2	3.9	Priority V
24	Beki river	2.0	2.8	Not Polluted
25	Bhogdoi river	1.8	2.8	Not Polluted
26	Jhanji river	1.4	2.5	Not Polluted
27	Boginadi near	1.0	2.6	Not Polluted
28	Dikrong river	1.4	2.7	Not Polluted



Sl. No.	Name of the River	BOD (mg/l)		Current Priority
				Not Polluted
29	Ranganadi river	1.4	2.7	Not Polluted
30	Dhansiri river	1.8	2.7	Not Polluted
31	Kohora river	1.4	2.8	Not Polluted
32	Dikhow river	1.4	2.6	Not Polluted
33	Sankosh river	1.8	2.7	Not Polluted
34	Bordoibum Beelmukh	2.0	2.7	Not Polluted
35	Holudunga beel	2.0	2.8	Not Polluted
36	Diplai beel	2.0	2.9	Not Polluted
37	Samaguri beel	2.0	2.9	Not Polluted
38	Kolong river	1.8	2.7	Not Polluted
39	Killing river	1.2	2.8	Not Polluted
40	Kapili river	2.2	2.8	Not Polluted
41	Son Beel	2.2	2.9	Not Polluted
42	Tengapukhuri	1.8	2.6	Not Polluted
43	Parashali beel	2.2	2.8	Not Polluted
44	Kulsi river	2.0	2.8	Not Polluted

THEMATIC AREA "X": GROUND WATER RECHARGE EXTRACTION**❖ Groundwater Resources**

Groundwater is a replenishable resource and hence the availability of groundwater has been taken for granted. The limitation of available surface water resources has put an onus on groundwater to meet the requirement. The groundwater development has gone up manifold to cater to the demand from agriculture, industry and domestic activities. The availability of groundwater is always expressed either in relation to its availability or to the annual replenishment, for management purposes. Thus, the term safe yield or sustainable yield is generally used by many developed countries for sustainable development of groundwater. In India, the replenishable groundwater resources are assessed periodically (every three years) and areas are categorized on the basis of Stage of groundwater extraction (safe yield).

The latest Dynamic Ground Water Resources of Assam (as on March'2020) assessed by Central Ground Water Board is given here under:

○ Total annual Ground Water Recharge	: 27.05 BCM
○ Annual Extractable Ground Water Resources	: 21.97 BCM
○ Annual Ground water extraction for all uses	: 2.58 BCM
○ Provision for Domestic and Industrial requirement up to 2025	: 0.66 BCM
○ Net ground water available for future irrigation use	: 19.33 BCM
○ Stage of Ground water development	: 11.73 %

All districts of Assam fall under "Safe" category as per the Dynamic Groundwater Resources assessed by CGWB.

❖ CGWB Master Plan for Artificial Recharge

Revised Master Plan for artificial Recharge to Groundwater in India was prepared by CGWB in the year 2020. In view of the active participation of central and State agencies in water conservation, a need was felt to revise the master plan prepared in 2013. Accordingly plan for 2020 has been finalised.

In case of Assam, different water harvesting/ recharging structures have been suggested in consultation with State Government to harness the run off generated from the rain. The state received a good amount of rainfall and aquifers are naturally replenished every year. It is observed that in general artificial recharge measures are not require everywhere, however, localized requirement cannot be denied.

❖ Groundwater Management and Regulation

As the Assam State Ground Water Authority is yet to be functional, the work of Ground Water Management and Regulation in the State is looked after by CGWB, NER. As per Central Ground Water Authority, there is no notified district (semi critical/critical/ over exploited) in Assam.

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Central Ground Water Authority has been issuing NOCs to industrial units, infrastructure units, and mining sectors for EXTRACTION OF GROUND WATER as per guideline of CGWA. As per the CGWA guideline, all units/firms should implement rooftop rainwater harvesting system in the buildings within its lease area as per the model building bye law issued by Ministry of Housing & Urban Affairs/ Local Authority. However, recharge to groundwater should not be practice in areas of shallow water level i.e., areas where depth to water level is within 5 mbgl to avoid water logging.

As part of its action taken & compliance towards Ground Water Extraction, this office has issued Show Cause Notices to difference Industries /Infrastructure Units in Assam. As on 15 January 2022, a total of 412 Show Cause Notices have been issued to the industrial, infrastructure and mining units of Assam for not taking NOC, non-compliance of CGWA conditions, illegal groundwater extraction etc. The following is the breakup of NOC details of Assam state and Kamrup (Metro):

Assam (As on 15 January 2022)

- i. NOC issued (New): 380 Nos. (Industrial-334, Infrastructure- 33, Mining-13)
- ii. NOC issued (Renewal): 68 Nos. (Industrial-66, Infrastructure- 2, Mining-Nil)
- iii. NOCs rejected: 687 Nos.
- iv. NOCs exempted: 162 Nos.

Kamrup (Metro) (As on 15 January 2022)

- i. NOC issued (New): 82 Nos. (Industrial-56, Infrastructure- 26, Mining-Nil)
- ii. NOC issued (Renewal): 15 Nos. (Industrial-13, Infrastructure- 2, Mining-Nil)

The New Guidelines/ Notification on Extraction of Ground Water by Ministry of Jal Shakti (Department of Water Resources, River Development and Ganga Rejuvenation) (CENTRAL GROUND WATER AUTHORITY) dated 24th September, 2020 (THE GAZETTE OF INDIA: EXTRAORDINARY [PART II—SEC. 3(ii)]) is also enclosed herewith for kind information. (Already submitted vide this office letter No.882/D 27/CGWA/NER/2019-20 dated 15.02.2021)

❖ Groundwater Regime Monitoring

Updated Ground Water Regime Monitoring data for last 3 years:

Ground water level is being monitored four times in a year through different ground water abstraction structures to obtain information on ground water levels and chemical quality through representative sampling. District wise pre-monsoon and post-monsoon Ground Water Level data for the last 3 years of Assam is given in Table 1 below:

29/1/22
29/1/22
29/1/22

Table I: District wise pre-monsoon and post-monsoon Ground Water Level data for the last 3 years of Assam (2019, 2020 & 2021) as per CGWB, GOI

DISTRICT WISE GROUND WATER LEVEL DATA OF ASSAM (in mbgl)

State	YEAR District	2021		2020		2019	
		Post monsoon	Pre monsoon	Post monsoon	Pre monsoon	Post monsoon	Pre monsoon
Assam	Baksa	4.95	6.79	1.84	2.88	2.98	3.60
Assam	Barpeta	1.74	3.57	1.75	4.23	3.05	3.26
Assam	Biswanath	2.99	4.16	2.66	4.39	3.29	4.40
Assam	Bongaigaon	3.19	4.36	2.72	4.62	3.27	3.54
Assam	Cachar	1.59	3.63	1.28	3.46	1.46	2.90
Assam	Chirang	2.98	3.40	2.76	4.00	NA	3.00
Assam	Darrang	4.14	4.50	3.07	3.56	3.89	3.86
Assam	Dhemaji	2.12	3.22	1.76	3.38	2.68	3.49
Assam	Dhubri	5.56	7.23	6.43	8.88	8.87	8.39
Assam	Dibrugarh	3.29	4.40	2.00	3.89	3.19	4.63
Assam	Goalpara	2.53	3.39	2.35	4.70	2.39	5.03
Assam	Golaghat	4.75	**	3.01	5.43	2.29	4.68
Assam	Hailakandi	1.46	3.30	1.31	2.04	1.17	3.08
Assam	Hojai	4.71	5.75	3.12	8.98	2.52	9.02
Assam	Jorhat	1.38	**	0.80	2.39	0.90	1.51
Assam	Kamrup	2.66	2.97	2.42	3.66	2.71	4.46
Assam	Kamrup (M)	3.16	3.15	1.61	1.69	1.86	3.12
Assam	Karbi Anglong	4.87	1.87	3.00	6.21	3.00	4.86
Assam	Karimganj	1.01	1.91	1.15	2.02	0.83	1.31
Assam	Kokrajhar	3.46	4.16	3.02	6.22	4.12	4.53
Assam	Lakhimpur	1.79	2.88	1.74	2.85	1.81	2.90
Assam	Morigaon	2.26	3.61	1.37	3.56	2.80	4.95
Assam	Nagaon	2.91	3.29	2.07	3.15	3.11	4.91
Assam	Nalbari	2.18	3.68	2.30	6.45	3.25	2.98
Assam	Sibsagar	3.53	**	1.43	4.94	1.30	3.50
Assam	Sonitpur	2.28	3.35	2.10	3.47	2.43	3.60
Assam	Tinsukia	3.38	3.74	3.08	4.22	2.75	3.91
Assam	Udalguri	2.25	2.72	2.20	3.02	3.41	2.80

Source: CGWB, NER, GUWAHATI

NB: - mbgl: metre below ground level, BCM: Billion Cubic Metre

(**): - Could not be monitored due to engagement of CGWB Officers in the Election duty of Assam Assembly Election 2021

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GOVERNMENT OF ASSAM
ENVIRONMENT AND FOREST DEPARTMENT
DISPUR, GUWAHATI-6
ORDERS BY THE GOVERNOR
NOTIFICATION

Dated Dispur, the 2nd March, 2022

No. FRM.171/2018/Pt/Vol-I/657 : In compliance of Order dated 29.06.2020 of Hon'ble National Green Tribunal, Principal Bench, New Delhi in O.A. No. 673/2018 and as per direction of the 5th meeting dated 31.08.2020 of the Central Monitoring Committee, the Governor of Assam is pleased to adopt 'Bharalu River' as 'Model River' and rejuvenate, which can serve as a model for other polluted river stretches in Assam.

Further, the Department of Housing and Urban Affairs, Assam is hereby designated as Nodal Department for implementation of the Action Plan prepared by Pollution Control Board, Assam and approved by the Central Pollution Control Board for rejuvenation of the Bharalu River in compliance of Hon'ble NGT's order.

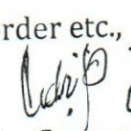
This is issued with the approval of the Competent Authority.

Sd/- Ravi Shankar Prasad, IAS
Additional Chief Secretary to the Government of Assam
Environment & Forest Department

Memo No. FRM.171/2018/Pt/Vol-I/657-A
Copy to:

Dated Dispur, the 2nd March, 2022

1. P.S. to Secretary to the Govt. of India, Ministry of Jal Shakti, Department of Water Resources, River Development & Ganga Rejuvenation, Shram Shakti Bhawan, Rafi Marg, New Delhi-110001.
2. Sri A. Sudhakar, DH, WQM-I, Central Pollution Control Board, Ministry of Environment, Forest & Climate Change, Govt. of India, Parivesh Bhawan, East Arjun Nagar, Delhi-110032.
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi-110032.
4. The Principal Secretary to the Govt. of Assam, Department of Housing and Urban Affairs, Dispur, Guwahati-6 for favour of information and necessary action.
5. The Principal Secretary to the Govt. of Assam, Panchayat and Rural Development Department, Dispur, Guwahati-6.
6. The Principal Chief Conservator of Forest & Head of Forest Force, Assam, Panjabari, Guwahati-37.
7. S. O. to the Chief Secretary, Assam, Dispur, Guwahati-06.
8. The Secretary to the Govt. of Assam, Irrigation Deptt, Dispur, Guwahati-06.
9. The Chairman, Pollution Control Board Assam, Bamunimaidam, Guwahati-21.
10. The Member Secretary, Pollution Control Board Assam, Bamunimaidam, Guwahati-21.
11. The Secretary to the Govt. of Assam, Water Resources Department, Dispur, Guwahati-6.
12. P.S. to Hon'ble Minister, Environment and Forest Department, Dispur, Guwahati-6.

By order etc.,
 02.03.2022

Additional Secretary to the Government of Assam
Environment & Forest Department



GOVERNMENT OF ASSAM
DEPARTMENT OF HOUSING & URBAN AFFAIRS
DISPUR::GUWAHATI-6.

uddepartmentma@gmail.com

No. UDD(M)19/2019/573

Dated Dispur, the 4th March, 2022

From : Shri Bhaskar Phukan, ACS
Secretary to the Govt. of Assam,
Department of Housing & Urban Affairs.

To : ✓ The Additional Secretary to the Govt. of Assam
Environment & Forest Department,
Dispur, Guwahati-06

Sub : Regarding- Resubmission of Monthly Progress Report in OA. No.673/2018 for the month of January, 2022 with complete updated information and authentic data.

Ref : Your letter no.FRM.171/2018/Pt-II/Vol-I/1943 dated: 28-02-2022

Sir,

With reference to the subject cited above and your letter quoted under reference, I am directed to re-submit the Monthly Progress Report in O.A No. 673/2018 for the month of January, 2022 of this Department with updated and accurate information.

Further, as stated in the minutes of the 12th CMC meeting that no information with regard to the Integrated Solid Waste Management Plant at Sonaighuli is available in the MPR, the Commissioner, GMC has informed that the Sonaighuli land has been abandoned as it is found very deep and situated between two hillocks. The case of solid waste dumping at Sonaighuli town is not pending since long back as stated in the minutes. Further, no solid waste is transferred to Sonaighuli as stated in the minutes.

A report from the Chief Executive Officer, GMDA is also enclosed with the MPR for your information and necessary action.

Enclo: As stated.

Yours faithfully,

Secretary to the Govt. of Assam
Department of Housing & Urban Affairs

No. No. UDD(M)19/2019/573-A

Dated Dispur, the 4th March, 2022

1. P.S. to the Principal Secretary to the Govt. of Assam, Department of Housing and Urban Affairs for kind appraisal of the Principal Secretary.
2. P.S. to the Commissioner & Secretary to the Govt. of Assam, Department of Housing and Urban Affairs for kind appraisal of the Commissioner & Secretary.

By order etc.,

Secretary to the Govt. of Assam
Department of Housing & Urban Affairs

DKS
7/3

J. N.