

Government of West Bengal
Department of Environment

Prani Sampad Bhawan, 5th Floor, LB-2, Sec-III, Saltlake City, Kolkata-106

No. EN/ 720/3C-01/2019

Dated, Kolkata 19/4/ April, 2021

From :: Shri Rabijyoti Majumdar, IAS
Additional Secretary
Govt. of West Bengal

To :: Shri D.P.Mathuria
Executive Director – Technical
National Mission for Clean Ganga
1st Floor, Major Dhyan Chand National Stadium
India Gate, New Delhi-110002

Sub: Monthly Progress Report – February, 2021

Sir,

The undersigned is directed to forward herewith the Monthly Performance Report(MPR) in the prescribed proforma covering the months of February, 2021 (updated as on 30.03.2021) for the State of West Bengal in respect of polluted river stretches in West Bengal.

This is for kind information and necessary action.

Yours faithfully


Additional Secretary
Department of Environment

National Mission for Clean Ganga

Monthly Progress Report in the NGT Matter O.A.No.673 of 2018 (in compliance to NGT order dated 24.09.2020 for the month of February 2021 updated as on 30.03.2021) West Bengal

Overall status of the State:

- I. Total Population: Urban Population & Rural Population: **10.9 Cr.**
(3.09 Cr. Urban population & 7 cr. Rural population)
(estimated population for 2020)
(Source: www.census2011.co.in)
- II. Estimated Sewage Generation(MLD):
a. **2758 MLD (Urban area)**
b. **1400 MLD (Rural area)**
- III. Details of Sewage Treatment Plant (Urban Area) :
a. Existing no. of operational STPs including East Kolkata Wetland in Kolkata City and Treatment Capacity (in MLD): **29 (441.36+910) (1351.36 MLD)**
b. No. of STPs under construction **11 (337 MLD)**
c. No. of STPs under renovation **18(334.96 MLD)**
d. No. of STPs under proposal/tender stage **21 (351 MLD)**
- IV. Gap in Treatment Capacity in Urban area as on 10.02.2021. **2758-2374.32=383.68**
V. Capacity utilization of Existing STP **(290+910) =1200 MLD**

Sewage treated through Alternate technology at Jangipur drain (which is one of the identified 56 Polluted major drain) as an interim measure **8 MLD**
In other 55 drains which are within the tidal zone and therefore bio/phyto remediation as interim measure is not feasible and the same has been approved by CPCB)
- VI. Proposal for setting up of new STPs in 16 Ganga Towns and capacity augmentation of existing STPs, amounting to Rs. 2,885 crore under Namami Gange –II (2021-2023) have been sent to NMCG by PD SPMG on 4th February, 2021.
Therefore, the GAP of 383.68 MLD will be adequately bridged by this **550MLD (Estimated Population – 2036) .In addition to this, as per advise of NMCG, KMDA would construct one STP at Mayapur,Nabadwip, as Krishna Nagar-II STP.**
- VII. As per Hon'ble NGT directions given in OA No-673, River Karola in Jalpaiguri district was selected for development as a Model River, and the project has been successfully implemented, resulting in significantly reducing the pollution load in the river. **Annexure-I Work completed in all the 47 Outfalls, Chlorination Tanks are on the process of construction in upstream to charge disinfectant at recommended doses. Work will be completed after Election.**
- VIII. A plan for the treatment of Liquid Waste of 1400 MLD generated in the rural area is being looked after by the Department of P&RD. The response from the Department is annexed in

Annexure-II.

- IX.** Information on management of Liquid Waste through East Kolkata Wetland, an internationally acclaimed technology maintained by Kolkata Municipal Corporation is annexed in **Annexure-III.**

Moreover, Department of UD & MA has requested WBPCB for providing WQ data on the quality of water getting treated through this natural system on periodic intervals. A joint inspection has also been proposed by WBPCB along with KMC, Department of UD & MA, Department of Environment, PD SPMG in the month of April 2021. NMCG has also expressed its willingness to join this inspection.

Details of operational STPs in the State
EA=Executing Agency

No.	EA	Location	Existing STP Capacity (MLD)	Capacity Being Utilized (MLD)	Operational Status of STP	Compliance Status of STP
1.	KMDA	Jagaddal Bhatpara New	31.00	24.00	Fully operational Operation and Maintenance started since Sept.'2017, Sept.'2017, July'2018, July' 2018, July' 2018, July' 2018 and Sept.'2017 respectively.	Complied
2	KMDA	Shyamnagar	10.00			Complied
3	KMDA	Jagaddal Bhatpara old	9.50			Complied
4	KMDA	Kankinara STP, Madrail, Bhatpara	10.00			Complied
5	KMDA	STP Kalyani-I	11.00	19.00		Complied
6	KMDA	STP Kalyani-II	10.00			Complied
7	KMDA	Gayeshpur	8.33	3.20		Complied

8	KMDA	Bansberia	0.30	0.30	Partially Operational STPs. LOI for Renovation work of the existing STP to make it fully functional has been issued on 22/06/2020. Accordingly work order has been issued on 30.06.2020. (1) Renovation work (CIVIL part.) of MPS going on. (2) Renovation of STP going on. (3) Cleaning of existing sewer line / drain will be taken up very soon.	Partially Complied Likely date of completion May 2021
9	KMDA	Konnagar (Uttarpara)	22.00	12.00	Partially Operational. physical progress(Civil work)as on 28.02.2021 : 20%, Repairing & renovation of STP: 10%, Repairing & renovation of LS (4 nos.) & MPS (1 no) :-80% , Cleaning,Repairing& renovation of network- 5%	Partially Complied
10	KMDA	Naihati	11.56	7.00	Partially functional and presently undergoing renovation to make it fully functional. Overall Physical Progress as on 28.02.2021 is: 18% Repairing & renovation of STP-30%; Repairing & renovation of MPS (2nos) and LS (1 no.)-20% Cleaning, Repairing & renovation of network-10%; Repairing & renovation of Diversion structure-2%	Partially Complied Likely date of completion May 2021.
11	KMC	Bangur	52	26	Operational	Partially complied

12	KMC	Garden Reach	57	53.68	Operational	Partially complied
13	KMC	Keorapukur	45	36	Operational	Partially complied
14	KMC	Baghajatin	15	14.25	Operational as oxidation pond	Partially complied
15	KMC	Hatisur	10	8	Operational	Partially complied
16	PHED	Nabadwip Municipality Nadia	10	6.72	Operational	Partially complied
17	PHED	Katwa Municipality, PurbaBurdwan	4.36	2.36	Operational	Partially Complied
18	PHED	Diamond Harbour Municipality	2.03	0.2	Operational	Partially Complied
19	PHED	Murshidabad Municipality	1.96	0.24	Operational	Partially Complied
20	MED	JiagunjAzimgunj Takia Oxidation Pond	0.69	0.47	Partially Operational as Oxidation Pond. De-sludging of the pond is complete. MED & KMDA to submit the civil & EM estimates for rejuvenation of two existing main pump houses soon.	Partially Complied

21	MED	Jiagunj Azimgunj Takia Oxidation Pond	0.69	0.47	Partially Operational as Oxidation Pond. De-sludging of the pond is complete. MED & KMDA to submit the civil & EM estimates for rejuvenation of two existing main pump houses soon.	Partially Complied
22	UDMA (SLRDC)	Kestopur	27.24	18	Operational Proposal for replacement of sludge pump and other components amounting approx. Rs.60 lakhs given, tender already matured. Work Order given & work already started.	Partially Complied
23	PHED	Digha Sankar pur Development Area	6.7	3	Operational	Complied
24	PHED	New Town Kolkata (Action Area IIC)	31	15.4	Operational	Complied
25	PHED	New Town Kolkata (Action Area IIB)	14	2.1	Operational	Complied
26	KMDA	Barrackpore	18.00	Trial run	Fund allotment status for House to House Connections -allotment of 35000 nos. households of Rs. 42,78,50,500.00 received from the State Govt., Fund allocated to the municipality to immediately start the tender process. Tender invited by the respective municipalities.	Prayer for time extension placed before NMCG
27	KMDA	Barrackpore	6.00	Trial run	Barrackpore Municipality is executing the work by engaging agencies through tender. Work in progress Expected date of completion :January 2023	Prayer for time extension placed before NMCG

28	KMDA	Halisahar	16.00	Trial run	Fund allotment status for House to House Connections -allotment of 32,686 nos. house holds of Rs. 43, 47, 56,486.00 received from the State Govt. No bidder participated in the 1st call of tender. 2nd call was invited on 10.02.2021 and last date of bid submission on 17.03.2021. Expected date of completion: 2 years after issuance of work order.	May, 2021
29	KMC	East Kolkata Wetlands	910	910		
Total			441.36 +910 = 1351.36	252.39 + 910=1162.39		

N.B.: -STPs marked 'Partially Operational' are either complying as per old criteria or guideline or are under the proposed scheme Renovation/Rejuvenation.

Details of STPs in the State under Renovation
EA- Executing Agency

No.	EA	Location	Existing STP Capacity (MLD)	Capacity Being Utilized (MLD)	Operational Status of STP	Compliance Status of STP
1	KMDA	Baidyabati	6.00	5.00	Two no bidder have been participated and technical evaluation is in process.	Under Renovation
2	KMDA	Bhadreswar	7.60	5.50		Under Renovation
3	KMDA	Chandannagar, Khalisani, Chinsurah-Hooghly	18.16	14.50	LOI for Renovation work of the existing STP to make it fully functional has been issued on 22/06/2020. Accordingly work order has been issued on 30.06.2020.	Renovation work under progress. Likely date of completion June 2021 Partially completed.

	KMDA	Chandannagar , Khalisani, Chinsurah- Hooghly	4.50	4.00	(1) Renovation work of MPS (CIVIL part.) going on (2) Renovation of both STPs will be started very soon. (2) Tender is in progress. Last date of Bid submission on 17.03.2021 (3) The Department of UD & MA has already found out an alternative land for this STP project at Taldanga. The site has around 60 trees which need to be uprooted. The Department has approached Forest Department for speedy uprooting of trees planted in the alternative site of Taldanga and the work will start soon.	
5	KMDA	Titagarh	4.50	4.0	Partially Operational STPs. Presently undergoing renovation to make it fully functional.	Under renovation Likely date of completion May 2021

6	KMDA	Titagarh	4.50	4.5	Overall Physical Progress as on 28.02.2021 is : 59% comprising Repairing & renovation of STP- 65% Repairing & renovation of MPS (1 nos) and LS (3 no.)- 40% Cleaning, Repairing & renovation of network- 10% Repairing & renovation of Diversion structure- 60%	Likely date of completion May 2021
7	KMDA	Bandipur (Khardaha)	14	-	Non-functional STPs but under Renovation. Overall physical progress as on 28.02.2021 : 26% comprising Repairing & renovation of STP- 20% Cleaning, Repairing & renovation of network- 40%.	Under renovation Project is getting reviewed by PD,SPMG
8	KMDA	Champadani	1.00		Single bidder had quoted @134% above which is not acceptable so 3rd call has been invited. Last date of Bid submission on 22.03.2021 and date of opening on 24.03.2021.	Under Renovation. Likely date of completion June 2021

9	KMDA	Garulia	7.90		Non-functional and presently undergoing renovation to make it fully functional. Overall physical progress as on 28.02.2021 : 60% comprising Repairing & renovation of STP-75% Repairing & renovation of MPS (1nos) and LS (1 no.)-40% Repairing & renovation of network- 30% Repairing & renovation of Diversion structure-70%	Under Renovation. Likely date of completion May 2021.
10	KMDA	Naihati	6.50		Non-functional and presently Undergoing renovation to make it fully functional. Overall physical progress as on 28.02.2021 : 25% comprising- Repairing & renovation of STP-24% Repairing & renovation of MPS (2nos)-30% Repairing & renovation of network- 15% Repairing & renovation of Diversion structure-30%	Under Renovation. Likely date of completion May 2021.
11	KMDA	Panihati	12.00	-	Non-functional and presently undergoing renovation to make it fully functional. Overall physical progress as on 28.02.2021: 18% comprising Repairing & renovation of STP-15% Repairing & renovation of MPS (1nos) and LS (3no.)-20% Repairing & renovation of network- 20%	Under Renovation. Likely date of completion May 2021

12	KMDA	Serampore	18.60	-	Single bidder had quoted @134% above which is not acceptable so 3rd call has been invited. Last date of Bid submission on 22.03.2021 and date of opening on 24.03.2021.	Under Renovation Likely date of completion June 2021
13	KMDA	Balli (Kona)- Kona, Chakpara (Anandana gargram Panchayet)	62.00		Financial Closure Status- Financial closure achieved on 17.02.2021 and substitution agreement signed on 17.02.2021 Site progress- Handing over procedure of Proposed site is under progress. It will be completed after election. Design vetting-1st Phase Design vetting (B.E.P.) already completed from IIT, Kharagpur and 2nd Phase of Design Vetting is under process from the end of IIT, KGP. Interception and Diversion planning status- Right now it is under preparation by the concessionaire and will be submitted within short period of time.	Under Renovation. 30 months from Financial closure
14	KMDA	Howrah-Arupara	65.00	-	Financial Closure Status- Financial closure achieved on 17.02.2021 and substitution agreement signed on 17.02.2021 Site progress- Handing over procedure of Proposed site is under progress. It will be completed after election. Design vetting- 1st Phase Design vetting (B.E.P.) already completed from IIT, Kharagpur and 2nd Phase of Design Vetting is under process from the end of IIT, KGP.	Under Renovation 30 months from Financial closure

15	KMDA	Kamarhati - Baranagar -Kamarhati, Mathkol, near Belgachia Metro Car Shed	60.00	-	Financial Closure Status- Financial clousure achieved on 17.02.2021 and substitution aggrement signed on 17.02.2021 Site progress- Handing over procedure of Proposed site is under progress. It will be completed after election. Design vetting- 1st Phase Design vetting (B.E.P.) already completed from IIT, Kharagpur and 2nd Phase of Design Vetting is under process from the end of IIT, KGP. Interception and Diversion planning status- Right now it is under preparation by the concessionaire and will be submitted within short period of time.	Under Renovation 30 months from Financial closure
16	PHED	Berhampore Murshidabad	3.7	-	Non-Operational	Not Complied
17	SJDA	Mahananda Left Bank, Siliguri	15	-	Non-Operational. DPR has been vetted by KMDA, Agency will give technical presentation before LWM Committee &Experts. If approved, SJDA would move to the Department for obtaining AAFS.	Not Complied
18	SJDA	Jorapani&Fuleswari River, Siliguri	24	-	Non-Operational. DPR has been vetted by KMDA, Agency will give technical presentation before LWM Committee &Experts. If approved,SJDA would move to the Department for obtaining AAFS	Not Complied
Total			334.96	37.5		

Details of under Construction STPs in the State

EA-Executing Agency

No.	EA	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
1.	KMC	Joka	45	Physical progress: 16% Piling under progress	The sewage network at the 03nos. STPs under KEIIP is being developed under respective works. Trunk sewers are being laid. S&D network to be completed by 2023. Approximately Rs. 1700cr. For S&D works. Out of this, about 1300 cr. linked for development of the trunk S&D system within the catchment areas of the 3 STPs and remaining indirectly linked for the abatement of pollution to the River Ganga in other areas. Out of 1300 cr. about 510 cr. has been disbursed.	March 2022
2.	KMC	M.G. Road	40	Physical progress: 13.5% Land development, chlorination building & boundary wall under progress	Time line for balance work not within the present scope including uncovered areas to be finalized based on the time frame of implementation of future loan or from own resources of KMC. (ward 127, 142, part of 125,126,143 &144)	March 2022

3.	KMDA	Budge-Budge	9.33	Overall physical progress achieved as on 28.02.2021 is 95.0%. (Trial & Run stage) TOTAL FOR RCC PIPELINE - 1.880 KM. out of 3.39 KM.	No of house connection : 13200 Executed : NIL No bidder participated in the 1st call of tender. 2nd call was invited on 10.02.2021 and last date of bid submission on 17.03.2021. Expected date of completion: 2 years after issuance of work order.	Prayer for extension of time placed before NMCG.
4.	KMDA	Kanchrapara	18.00	Overall physical progress achieved as on 28.02.2021 is 35%. Construction of 18 MLD capacity of STP -38%.	Execution of I&D structure is under progress and there no provision of house sewer connection in the scope of the work	November, 2021
5.	PHED	New Town, Rajarhat Action Area- IIID	24	98% Commissioning awaited after 3 rd party inspection.	There is a community sewage system which is Supposed to transport the sewage to the plant.	The concerned person of the Agency died however the project is progressing & is under review & monitoring.
6.	PHED	Tarapith	4.25	25%	Provision of only Institutional Connection (90%)	May 2021
7.	PHED	Ghusighata	170	0%	Feasibility for setting up of STP will be completed within Mar. 2021.	May 2022
8.	KMDA	Nabadwip	9.50	Overall physical progress achieved as on 28.2.2021 is 65%.	Execution of I&D structure is under progress and there no provision of house sewer connection in the scope of the work	June, 2021

9.	KMDA	Baharampore	3.50	Progress as on 28.02.2021: Laying of HDPE (DWC) pipe of 130 m length done till date. The design & drawing of 2 nos. of L.S and 1 no. of MPS is under process. The design work for setting up 3.5 MLD STP will start shortly, however the finalization of alternative land is still under process.	I&D structure work has not yet started and there is no provision of House sewer connection.	May, 2022
10.	KMDA	Raghunathganj	5.00	Progress as on 28.02.2021: Approved Vetted Design & Drawing of 5 MLD STP and work started. Already 4 nos of pile driven. Vetted Sewerage Network drawing submitted and approved by the competent authority. HDPE (DWC) sewer line-274m length of laying completed. The design and vetting of 2 Nos. of LS and 1 No of MPS is under process.	I&D structure work has not yet started and there is no provision of House sewer connection.	May, 2022

11.	KMDA	Jangipur	8.00	Progress as on 28.02.2021: Approved Vetted Design & Drawing of 8 MLD STP submitted and work started. Already 48 nos. of Piles driven. Sewerage Network Vetted design & drawing submitted and approved by the competent authority. Laying of sewer line about 982 m. completed till date. The design and vetting of 2 Nos of L.S. and 1 No of MPS is under process.	I&D work just started but there is no provision of House sewer connection in the scope of work.	May, 2022
Total			337			

Details of proposed STPs in the State

EA-Executing Agency

No.	EA	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.	KMC	Wireless Park	15.3	Tender process ongoing under Tolly's Nullah Rehabilitation Project. Technical bid opened on - 10/12/2020	30 months for from date of contract agreement.
2.	KMC	Sukhapukur	5.06	Technical bid evaluation is in progress. Draft TBER sent to NMCG for approval, waiting for the approval of World Bank for opening up of Financial Bid.	
3.	KMC	Birji Road	5.7		
4.	KMC	L.S.10	16	Proposed under Municipal Waste Water Project Budgetary estimate is of about Rs. 1211.61 Crore. The project completion time was considered as 52 months from the issuance of Work Order.	52 months from the date of issuance of work order.
5.	KMC	Dhankheti Nikashi	25	Draft DPR submitted to NMCG on 31/03/2019 for approval & extension of time (EOT)	
6.	KMC	BhangaKhal, Garden Reach	35	NMCG approved EOT on 08/09/2020 up to 22/02/2021. Soft copy of the draft DPR resubmitted on 14/09/2020. Hard copy submitted on 01/10/2020. Virtual meeting on draft DPR held on 16/12/2020. • Compliance report submitted to NMCG. Awaiting final approval of draft DPR.	
7.	KMC	Rania	23	Under Tendering Re-tendering done on 30/09/2020 Tender opened: 27/11/2020. Financial bid opened on 21/01/2021. LOA issued to the successful bidder.	24 months from the date of issuance of work order.

8.	KMC	Borough-XII	70	To be finalized based on Implementation of future loan or from own resources of KMC.	Not yet finalized.
9.	KMDA	Sreenathpur	4	Lowest bidder rate has been recommended for acceptance to departmental tender committee after getting approval of the Tender from the DTC, LOA will be issued.DTC has cleared the matter. It is now lying with Finance Department for approval.	December, 2022
10.	KMDA	Chaitanyaghat	5.2		
11.	KMDA	Silver Jubilee Road	2.6		
12.	KMDA	Maheshtala	35.00	Revised LOA issued 11.02.2021 and it is already accepted by the lowest bidder on dated 16.02.2021. Concession agreement may be signed by April 2021.	24 months from Financial closure
13.	KMDA	Hooghly-Chinsurah	26.50	Tender is in progress. Last date of Bid submission on 17.03.2021.	18 month after signing of form of contract.
14.	KMDA	North-Barracpore	11.25	Final DPR already submitted to NMCG after Compliance of NMCG's observation.	
15.	KMDA	North-Barracpore	6.5		
16.	MED	Dhuliyar	5.68	It has been decided that Tender will be invited & DPR will be prepared by KMDA.KMDA would assist MED in execution of the project. Fresh tender will be accordingly invited.	
17.	MED	Kalna	2.99	It has been decided that Tender will be invited & DPR will be prepared by KMDA.KMDA would assist MED in execution of the project. Fresh tender will be accordingly invited.	
18.	MED	Santipur	16.60	It has been decided that Tender will be invited & DPR will be prepared by KMDA.KMDA would assist MED in execution of the project. Fresh tender will be accordingly invited.	

19.	MED	Chakdah	5.06	It has been decided that Tender will be invited & DPR will be prepared by KMDA.KMDA would assist MED in execution of the project. Fresh tender will be accordingly invited.	
20.	MED	Haldia	24.29	It has been decided that Tender will be invited & DPR will be prepared by KMDA.KMDA would assist MED in execution of the project. Fresh tender will be accordingly invited.	
21.	MED	Raiganj	10.52	It has been decided that Tender will be invited & DPR will be prepared by KMDA.KMDA would assist MED in execution of the project. Fresh tender will be accordingly invited.	
Total			351		

Note:

1. Treatment through East Kolkata Wetland (EKW)

The City of Kolkata is surrounded by a huge low-lying marshy land & fisheries called East Kolkata Wetland (EKW) on the East which is fed by a number of water channels carrying and discharging City waste water (dry weather flow & storm water flow) in the Kulti-Vidyadhari river after natural treatment-sedimentation, oxidation.

The EKW is an urban facility for treating the city's waste water and for utilizing the treated water for pisciculture and agriculture, through recovery of waste water nutrients in an efficient manner. In the wetland to the east of Calcutta, wastewater is used in fisheries and agriculture covering an area of about 12,500 hectares which has been designated as conservation area and treating around 910 MLD of sewage. Department of UD & MA is drawing up the feasibility of establishing a Bio-Diversity Park in EKW along with SPMG.

- 1. One STP at Bardhaman under KMDA is under DPR Stage.KMDA has already taken up the matter with Bardhaman Development Authority to sort out & finalize the Land of the proposed STP.**
- 2. For River Barakar & Damodar within Durgapur-Asansol Planning area under ADDA, Treatment Capacity of STP is calculated at 261.80 MLD (Projection for 5 years).It is under DPR Stage, survey for available Land for installation of STP is in progress. In the meanwhile, ADDA has floated Tender for Technical evaluation for the work "Planning, Design, Construction, Commissioning Operation & Maintenance for 12 (twelve) months of sewage treatment facility for two number outfall within DMC & AMC area by Bio-Phyto-remediation which is now presently under 3rd call. KMDA is supervising the matter.**

OCEMS

Department of UD & MA has given suitable instructions to all the Executing Agencies to take up the work of installation of OCEMS at the STPs on priority basis & to complete it by Feb 2021. KMDA has been entrusted to work as a Nodal Agency in this matter. They have already invited Tender but it did not mature so they are now going for 2nd call. Bids in response to the 2nd call will be opened on 2nd March, 2021.

The Department has also sought clarification regarding Funding of this work from NMCG which will be finalized after opening up of Technical & Financial Bid.

IV. Details of Industrial Pollution:

No. of industries in the State (Red = 3944, Orange = 12381)	=16325 (as on 28.02.2021)
No. of water polluting industries in the State	=454
Effluent generation from industries	=1360.60 MLD
No. of industries having ETPs	=454
Total treatment capacity of ETPs	=1360.60 MLD
No. and capacity of existing CETP (4 modules each of 5 MLD)	=20 MLD
No. of industrial units connected to CETP	=345 Nos. tanneries
Capacity of under construction CETP (4 modules each of 5 MLD)	=20 MLD
Hazardous Sludge generation from Industries	=90 TPD

V. Solid Waste Management:

• Total number of Urban Local Bodies and their Population	125 (20905615)
• Current Municipal Solid Waste Generation	13709.412 (TPD)
• 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), bio-methanation, MRF etc.	18 nos (1778 TPD)
• Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap >20%)	11930 TPD
• No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)	Setting up of one plant of capacity 1000 TPD is in progress.
• Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source	2645 wards (90%) 588 wards (20%)
• Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)	Cluster-1 Project. At Promodnagar site. 450 TPD CP & RDF, 100 TPD Bio-methanation plant. At Kamarhati 180 TPD CP&RDF.
• No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.	107 nos for 92 ULBs (754.21 acre)

• No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers	1 (3.2 acre) Naihati
• No. of drains falling into river and no. of drain having floating racks/ screens installed to prevent solid waste from falling into the rivers.	402 (400)

Status of ULB wise Management of Solid Waste

Sl. No.	Name of ULBs	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
1	Alipurduar	35.65				Setting up of Compost Plant (CP) / Bio methanation / Material Recovery Facility (MRF) / Sanitary Landfill (SLF) as per SWM Rules, 2016 are in progress and expected completion timeline is December, 2021
2	Arambagh	30.25				
3	Asansol MC	654				
4	Ashoknagar-K_garh	79.65				
5	Baduria	13.62				
6	Baidyabati	68	48	CP	48	
7	Balurghat	75				
8	Bankura	75				
9	Bansberia	39				
10	Baranagar	150				
11	Barasat	130				
12	Barddhaman	140				
13	Barrackpore	50				
14	Baruipur	17				
15	Basirhat	29				
16	Beldanga	17.75				
17	Berhampore	90				
18	Bhadreswar	23				
19	Bhatpara	205	78	CP	78	
20	Bidhan Nagar MC	400				
21	Birnagar	16.77				
22	Bishnupur	59.2				
23	Bolpur	45.44				
24	Bongaon	65				
25	Budge Budge	40				
26	Buniadpur	30				
27	Chakdah	54.12				
28	Champdany	19	19	CP	19	
29	Chandannagore MC	55.5				
30	Chandrakona	7.8				
31	Contai	45				
32	Cooch Behar	45.69				
33	Cooper's Camp	13.86				

Sl. No.	Name of ULBs	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
34	Dainhat	48.51				
35	Dalkhola	8.22				
36	Dankuni	25				
37	Darjeeling	55.11				
38	Dhulian	46.42				
39	Dhupguri	11				
40	Diamond Harbour	18				
41	Dinhata	20				
42	Domkal	100				
43	Dubrajpur	47.87				Setting up of Compost Plant (CP) / Bio methanation / Material Recovery Facility (MRF) / Sanitary Landfill (SLF) as per SWM Rules, 2016 are in progress and expected completion timeline is December, 2021
44	Dum Dum	62.1				
45	Durgapur MC	402.63				
46	Egra	19				
47	English Bazar	190				
48	Gangarampore	30.56				
49	Garulia	35				
50	Gayeshpur	60				
51	Ghatal	26.52				
52	Gobardanga	17.7				
53	Gushkara	26				
54	Habra	72				
55	Haldia	80	70	CP + MRF	70	
56	Haldibari	4				
57	Halisahar	52				
58	Haringhata	0.01				
59	Hooghly Chinsurah	80				
60	Howrah MC	910	60	CP	60	
61	Islampur	21.73				
62	Jainagar-Mazilpur	18	6.2	WTE	6.2	
63	Jalpaiguri	55				
64	Jangipur	40				
65	Jhalda	7.56				
66	Jhargram	44				
67	Jiaganj-Azimganj	20.53	3	MRF	3	
68	Kaliaganj	59				

Sl. No.	Name of ULBs	Total MS W generation in TPD	Total MSW being Processed in TPD	Existing MSW Facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
69	Kalimpong	38.085	16	MRF+ BM	16	
70	Kalna	27.72				
71	Kalyani	58				
72	Kamarhati	160				
73	Kanchrapara	56.71				
74	Kandi	25.34				
75	Katwa	40				
76	Kharagpur	114.6				
77	Kharar	4.1				
78	Khardah	64.5				
79	Khirpai	5.92				
80	Kolkata MC	4500	1207.7	CP + MRF	1207.7	
81	Konnagar	32	5.5	CP + MRF	5.5	
82	Krishnanagar	130	130	CP	130	
83	Kurseong	11				
84	Madhyamgram	58				
85	Maheshtala	184	8.2	CP	8.2	
86	Mal	14	0.5	CP	0.5	
87	Mathabhanga	9.79				Setting up of Compost Plant (CP) / Bio methanation / Material Recovery Facility (MRF) / Sanitary Landfill (SLF) as per SWM Rules, 2016 are in progress and expected completion timeline is December, 2021
88	Mekliganj	4.69				
89	Memari	14.53				
90	Midnapore	87.3				
91	Mirik	4.2				
92	Murshidabad	30				
93	Nabadwip	53.98				
94	Naihati	100				
95	Nalhati	32				
96	New Barrackpore	29.8				
97	North Barrackpore	59				
98	North Dum Dum	165				
99	Old Malda	27.13				
100	Panihati	193				
101	Panskura	24.18				

Sl. No.	Name of ULBs	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
102	Pujali	15.6				
103	Purulia	60.6				
104	Raghunathpur	11.43				
105	Raiganj	90				
106	Rajpur-Sonarpur	170	1.1	MRF +BM	1.1	
107	Ramjibanpur	7.55				
108	Rampurhat	105				
109	Ranaghat	25.89				
110	Rishra	50	5	CP	5	
111	Sainthia	32				
112	Santipur	65.22				
113	Serampore	90	10	CP	10	
114	Siliguri MC	380	70	CP	70	
115	Sonamukhi	11.7				
116	South Dum Dum	372				
117	Suri	60				
118	Taherpur	0.45				
119	Taki	21.75				
120	Tamralipta	15				
121	Tarakeswar	13.16				
122	Titagarh	65				
123	Tufanganj	14.23				
124	Uluberia	50				
125	UttarparaKotrung	90.66	40	CP + MRF	40	
TOTAL		13708.585	1778.2	Total	1778.2	

Note:-CP-Compost Plant, MRF - Material Recovery Facility, BM- Bio-methanation, WTE- Waste to Energy

VI. Bio-medical Waste Management:

No. of Hospitals and Health Care Facilities

=8509

Total Bio-medical generation

=41571.4 kg / day

Status of Treatment Facility / CBMWTF

= 6 CBMWTF are operating

Treatment capacity

= 1,40,000 bed

All Biomedical wastes generated in the state are treated at the six (6) Common BMW Treatment, Storage & Disposal Facilities. Setting up of few more CBMWTSDF are in progress.

VII. Hazardous Waste Management:

No. of Industries generating Hazardous waste	=809
Total Hazardous Waste generation	=157846.80 MTA
Treatment Capacity of all CHTSDFs	
Land fill capacity	=1,20,000 MTPA
Land fill after treatment	=60,000 MTPA
Incineration	=10,000 MTPA
Storage area	=30,000 MTPA
Alternate Fuel & Resource Facilities (AFRF)	=2,00,000 MTPA
Average quantity of hazardous Waste reaching TSDF	= 35,684.48 MT

One CHWTSDF at Saltora, Bankura has been set up but yet to be commissioned.

VIII. Plastic Waste Management:

- Total Plastic Wastegeneration: around 300236.12 MT/Year (approx)
- Treatment / Measures adopted for reduction or management of plastic waste:
Recycling of waste plastic (process involves waste plastic collection sorting, cleaning (Washing & Drying) extruder, lump / granules, pack & dispatch).
- Measures taken for plastic waste reduction:
 1. UD & MA Department, GoWB has framed a bye-law with respect to Plastic Waste Management (Notification No: 215(Law) /C-12/NGT/Misc – 11/2020 dated 20/3/2020). The same has been uploaded in the Official Website of the Department:
http://www.wburbanservices.gov.in/page/cms/ngt_notification_0758e6
 2. Plastic carry bags are totally banned in the ecologically sensitive areas and 40 heritage / tourist sites of West Bengal 77 municipalities have banned the manufacturing, use and sale of plastic carry bags of thickness less than 50 micron and 18 municipalities banned use of single use plastic. Workshops carried out to generate awareness among different plastic waste generator and initiative taken to promote eco-friendly products as an alternative to plastic.

IX. Details of Alternate Treatment Technology being adopted by the State /UT

River name	Polluting drain	In-situ treatment details	MLD treated
Ganga	Jangipur	Bio/Phyto remediation treatment process as interim measure has been taken up for Jangipur drain. Chemical dosing, desilting work etc. has been taken up periodically and as per the test result data it is expected, the desired test result for waste water may be achieved with the present treatment process.	0.2

Churni	Basko Canal	Bio/Phyto remediation treatment process as interim measure was taken up for Basko Canal but due disposal of sewage by some other drains and local habitants at furthest downstream point of the drain the required effluent quality was not satisfactory.	4.28
	Sreenathpur Drain	Bio/Phyto remediation treatment process as interim measure taken up for Sreenathpur Drain. Chemical dosing, desilting etc. has been taken up periodically and as per the test result data it is apprehended the desired test result for waste water may be achieved with the present treatment process.	2.79
Proposed Alternate Treatment Technology to be adapted			
River name	Nos. of polluting drains	Proposed In-situ treatment details	MLD to be treated
Kansi	2	Primary treatment of river Kansi by providing screens, Sedimentation tanks followed by disinfection by Chlorination at 2 no. of drains (28 identified but 26 too small to carry out this work) has been proposed. Sedimentation tank construction work at one location is presently going on. Entire work to be completed by June 2021.	21.41
Mayurakshi	14	- Primary treatment for river Myurakshi for the town Suri & Sainthia by providing screens, sedimentation tanks followed by disinfection through chlorination at 12 no. of drains at Suri and 14 no. of drains at Sainthia is proposed. - MED mentioned that the water discharge is through private lands and also the point of discharge is a few kilometers away from the river. In Sainthia, a structure erected by the local municipality is hindering the prospects of the project. Department of UD & MA has taken up the matter.	Suri 4.04 Sainthia-2.68

River name	Polluting drain	In-situ treatment details	MLD treated
Rupnarayan	4	Out of 9 no. of outfalls the Executive Engineer informed that work cannot be taken up on 3 no. outfalls due to unsuitable condition. He prayed for modification of DPR. For construction work at one of the outfalls NOC from Railways is required for a stretch of around 30 meters.	8.37
Jalangi	8	Primary treatment for river Jalangi for town Krishnanagar by providing screens, aeration followed by disinfection through chlorination at 8 no. of outfalls progressing well. Almost 80% of works completed. Electric connection for aerator is pending.	17.45
Silabati	4	Primary treatment for river Silabati for the town Ghatal by providing screens, sedimentation tanks followed by disinfection through chlorination at 4 no. of outfalls is proposed. Construction work 40 % completed.	3.80
Dwarekeswar	13	Primary treatment of river Dwarakeshwar by providing screens, sedimentation tanks followed by disinfection through chlorination at 13 no. of outfalls progressing well. About 55% has been completed.	15.10
Kaljani	18	Primary treatment for river Kaljani for the town Alipurduar by providing screens, sedimentation tanks followed by disinfection through chlorination at 18 no. of outfalls is proposed. Construction work is almost 90% completed.	9.33
Korala	47	Primary treatment for river Korola for the town Jalpaiguri by providing screens, sedimentation tanks followed by disinfection through chlorination at 47 no. of outfalls is proposed. Work completed.	12.81
Ganga	21	Pls refer the note given below:	

X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment:

- CPCB has identified 56 major channels which carry most of the polluted Sewage to River Ganga. We are taking time-bound steps for connecting them to STPs (existing STPS as well as proposed ones under tendering).

However, there are 21 drains which pose a challenge in terms of technical Feasibility. For these drains, KMDA is preparing an Action Plan within March 2021 on the basis of alternative Technologies like In- Situ Treatment, Faecal Sludge Management, Bio-Gas Plant etc.

- As per NGT's orders, in respect of the Jangipur Canal, bio-phyto remediation has been initiated successfully, as an interim measure from July 2020.

XI. Details of Nodal Officer appointed by Chief Secretary in the State /UT: Additional Chief Secretary, Department of Environment, Government of West Bengal

XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State /UT: Last meeting of the Environment Monitoring Cell under the chairmanship of Principal Secretary Environment Department was held on 23.12.2020.

XIII. Latest water quality of the polluted rivers along with analytics, its tributaries, drains with flow details and ground water quality in the catchment of polluted river:
(Annexure-IV)

XIV. Ground water regulation:

River	Groundwater regulation
Vidyadhari	• Groundwater extraction is regulated according to West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005 by SWID, GoWB. • Water meter without telemetry system is installed at industrial tube well permitted by SWID. • Groundwater Resources Estimation and Assessment (2016-2017) is done as per GEC'97 guidelines. • Groundwater level (GWL) monitoring is done periodically four times a year (Jan, April, Aug & Nov). A few manual GW Level Monitoring stations is converted to Real-Time GW Level Monitoring stations by installation of Digital Water Level Recorder (DWLR).
Mathabhanga	• GWL database for Aug'20 (monsoon) has been generated. • All are "safe" categorized block along polluted stretches of Vidyadhari, Dwarka and Mathabhanga River except the following Block. □ Dwarkariverstretch: <i>Semi-Critical-</i> Rampurhat-II (Birbhum dist.) □ Mathabhangariverstretch: <i>Semi-Critical-</i> Deganga (North 24 Parganas dist.) • Periodic groundwater sampling for its Physio-chemical tests is done twice a year (April & Nov).
Dwarka	

Damodar	• Water meter without telemetry system is installed at industrial tube well permitted by SWID. • Groundwater Resources Estimation and Assessment is done as per GEC'97 guidelines.
Barakar	• Groundwater level (GWL) monitoring is done periodically four times a year (Jan, April, Aug & Nov). GWL database for Aug'20 (monsoon) has been generated. • All are "safe" categorized blocks along polluted stretch of Damodar and Barakar river. • Groundwater sampling for its Physio-chemical tests is done twice a year (April & Nov).
Ganga	Ground water regulation: • Installation of Water Meter with telemetry system at industrial Tube Wells for monitoring of real-time GW withdrawal is in progress. • Implementation of Real-Time GW Level monitoring system is in progress. • Ground water monitoring: GW Level database for Aug'20 (monsoon) against 136 GW monitoring stations under the blocks along polluted stretch of River Ganga has been generated. GW Monitoring Stations (136)= 92 (Manual) + 44 (Real-Time) • Physio-chemical tests for 67 GW samples collected during Pre-monsoon'20 period, from or nearby GW monitoring stations under the blocks along polluted stretch of river Ganga have been completed partially.

River	Groundwater regulation
Churni	Groundwater regulation: - Water meter without telemetry system is installed industrial tubewell. - Physio-chemical quality of groundwater samples collected from GW monitoring wells during pre-monsoon and post-monsoon period is tested every year. Groundwater monitoring: - GW Level database for Aug'20 (monsoon) against 52 GW monitoring stations under the blocks along polluted stretch of River Churni has been generated. GW Monitoring Stations (52)=42 (Manual) + 10 (Real-Time) - Physio-chemical tests for 52 GW samples collected during Pre-monsoon '20 period, from or nearby GW monitoring stations under the blocks along polluted stretch of river Churni have been completed partially.
Kansi	- Water meter without telemetry system is installed at industrial tube well permitted by SWID. - Groundwater Resources Estimation and Assessment (2016-2017) is done as per GEC'97 guidelines. - Groundwater level (GWL) monitoring is done periodically four times a year (Jan, April, Aug & Nov). A few manual GW Level Monitoring stations is converted to Real-Time GW Level Monitoring stations by installation of Digital Water Level Recorder (DWLR). GWL database for Aug'20 (monsoon) has been generated. - All are "safe" categorized block along polluted stretches of Kansi, Mayurakshi, Rupnarayan, Jalangi River except the following Blocks. Kansi River Stretch: <i>Semi-Critical-</i> Keshpur, Debra (Paschim Medinipur Dist) <i>Critical-</i> Panshkura (Purba Medinipur dist.) Mayurakshi River Stretch:
Mayurakshi	
Rupnarayan	<i>Semi-Critical-</i> Suti-I (Murshidabad dist.), Labhpur (Birbhum dist.) Jalangi River Stretch: <i>Semi-Critical-</i> Berhampur, Nowda (Murshidabad Dist), Tehatta-II, Chapra (Nadia dist.) <i>Critical-</i> Domkal (Murshidabad dist.), Karimpur-II, Tehatta-I, Nakashipara, Krishnagar-II, Krishnagar-I (Nadia dist.) Groundwater sampling for its Physio-chemical tests is done twice a year (April & Nov).
Jalangi	
Silabai	Groundwater regulation: - Water meter without telemetry system is installed at industrial tube well permitted by SWID. - Groundwater Resources Estimation and Assessment (2016-2017) is done as per GEC'97 guidelines. - Groundwater level (GWL) monitoring is done periodically four times a year (Jan, April, Aug & Nov). A few manual GW Level Monitoring stations are converted to Real-Time GW Level Monitoring stations by installation of Digital Water Level Recorder DWLR). GWL database for Aug'20 (monsoon) has been generated. - All are "safe" categorized block along polluted stretches of Silabati, Darakeswar, Kaljani and Karola river. Groundwater sampling for its Physio-chemical tests is done twice a year (April & Nov).
Dwarekeswar	
Kaljani	
Karola	

Mahananda	Groundwater regulation:
Teesta	• Groundwater extraction is regulated according to West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005. • Water meter without telemetry system is installed at industrial tube well permitted by SWID. • Groundwater Resources Estimation and Assessment (2016-2017) is done as per GEC'97 guidelines. • Groundwater level (GWL) monitoring is done periodically four times a year (Jan, April, Aug & Nov). A few manual GW Level Monitoring stations is converted to Real-Time GW Level Monitoring stations by installation of Digital Water Level Recorder (DWLR). GWL database for Aug'20 (monsoon) has been generated. All are “safe” categorized blocks along polluted stretch of Teesta and Mahananda river. Groundwater sampling for its Physio-chemical tests is done twice a year (April & Nov).

XV. Good irrigation practices being adopted by the State:

River	Stretch of the river	Good irrigation practices
Dwarka	Tarapith to Sadhak Bamdeb Ghat	A command area of 6735 ha in Rampurhat-II block is irrigated by the canal system of Mayurakshi barrage project belonging to I&W Department. At present a major canal renovation work of the Mayurakshi Reservoir Project for a total length of 67 km. is going on since 2018-19 which inter alia includes the canal system of length of 19 km in Rampurhat-II block also with a target completion in March-2021.
Ganga	Tribeni to Diamond Harbour	By diverting tidal water through the sluices on the bank of the river irrigation is provided at (a) Mograhat-I & II, Mandirbazar, Diamonharbour-I & II through Diamond Harbour Canal system (1500 ha), at Budge Budge-I & II blocks, Bishnupur-I & II blocks through Charial Canal (1580 ha) Uluberia, Shyampur, Bagnan-I and Bagnan-II blocks. Through Rajapur Canal, Purana canal, Chandanpara canal and Nakal canal (1500 ha). Repair of sluices and canal system are taken up as and when required.
Kansi	Midnapore to Ramnagar	Irrigation is provided at Kharagpur-II and Debra blocks through Medinipur Main Canal System originating from Medinipur Anicut. This canal system along with Medinipur structure has been rehabilitated recently which also includes the canal system in Medinipur, Kharagpur- I and Debra blocks. As a result irrigation has been started in these areas after a decade.
Dwarekeswar	Along Bankura	Irrigation is provided in Onda block from the canal system of Kangsabati Reservoir Project. Moreover there are four medium and minor irrigation schemes in Bankura-I and Onda blocks namely Niada (405 ha), Birai (2700 ha), Horajore (80 ha) and Abarda (80 ha) through which 3265 ha area is irrigated. The canal system of the aforesaid schemes and the regulating structure has undergone major rehabilitation during last two years.
Kaljani	Bitala to Alipurduar	Irrigation is provided at 1000 ha of area in Kalchini block through 2 minor surface irrigation schemes on streams out falling into Kaljani river.
Karola	Jalpaiguri to ThakurerKamat	A command area of 24385 ha in Rajganj block is irrigated through the canal system of Teesta Barrage Project.
Mayurakshi	Suri to Durgapur	A command area of 1196 ha in Suri-I block is irrigated through the canal system of Mayurakshi Reservoir Project.
Rupnarayan	Kolaghat to Benapur	Areas of different blocks are irrigated from tidal water through the sluice and canals belonging to I& W Department like in Amta-II (4807 ha), SahidMatangini (3765 ha), Bagnan-I (2024 ha), Bagnan-II (1518 ha) and Shyampur-I & II (8805 ha).
Teesta	Siliguri to Paharpur	Command areas of 24385 ha in Rajganj block, 5080 ha in Mal block, 400 ha in Maynaguri block and 14760 ha in Jalpaiguri Sadar

		block are irrigated through the canal system of Teesta Barrage Project.
--	--	---

XVI. Rain Water Harvesting:

River	Roof Top Rainwater Harvesting and Reuse and / or Artificial Recharge to Ground water
Damodar Barakar	1 in Kanksa Block is in progress.
Ganga	1) Barrackpur-II Block-2 (in progress) 2) KMC- 2 (existing) & 3 (in progress) 3) Diamond Harbour-I Block- 1 (existing) 4) Diamond Harbour-II Block- 1 (existing)
Churni	Hanskhali- 5 (existing)

XVII. Demarcation of Floodplain and removal of illegal encroachments:

Regarding Demarcation of Flood Plain Zones, Department of Irrigation & WBPCB are jointly working on it. A Report is to be submitted by them by 30th June 2021.

River	Demarcation of flood plain, removal of illegal encroachments from embankments and protection and management of flood
Vidyadhari	There is no illegal encroachment on the river embankments. Total 2.30 km bank protection works amounting Rs. 11.70 Crore will be taken up at right bank of river Vidyadhari during 2020-21.
Mahananda	There is no embankment on either side of the river in this stretch. Bank protection works are taken up as and when required to protect the adjoining areas. 1.40 km bank protection work amounting Rs. 3.58 Crore is under running by which 18900 people under 112 Ha areas may be benefitted. 3.00 km bank protection work amounting Rs. 8.53 Crore will be taken up during 2020-21, by which 32000 people under 465 Ha areas may be benefitted.
Churni	There is no embankment on either side of the river in this stretch. Bank protection works are taken up as and when required to protect the adjoining areas. 0.5 km bank protection work of Rs. 1.56 Crore will be taken up during 2020-21, by which 2000 people in 98 Ha of areas may be benefitted.
Dwarka	There is no embankment on either side of the river in this stretch. For this stretch, Bank protection works are being taken by Tarapith-Rampurhat Development Authority (TRDA).
Ganga	There is no illegal encroachment on the river embankments. In left bank, 0.135 km bank protection work of Rs. 2.61 Crore is under running and 1.045 km bank protection work of Rs. 14.01 Crore will be taken during 2020-21. In right bank, 0.900 km bank protection work of Rs. 6.21 Crore will be executed during 2020-21.
Damodar	There is no embankment on either side of the river in this stretch. Bank protection works are taken up as and when required to protect the adjoining areas. At present there is no such requirement of taking up anti erosion work in this stretch of river.
Jalangi	There is no embankment on either side of the river in this stretch. Bank protection works are taken up as and when required to protect the adjoining areas. 1.05 km bank protection work of Rs. 3.15 Crore will be taken up during 2020-21, by which 3500 people under 205 Ha areas may be benefitted.
Kansi	There is no illegal encroachment on the river embankments. 1.5 km bank protection work of Rs. 3.62 Crore is under running by which 13800 people under 700 Ha areas may be benefitted.

Mathabhanga	There is no embankment on either side of the river in this stretch. Bank protection works are taken up as and when required to protect the adjoining areas. At present, there is no such vulnerable zone noticed in this stretch. However, protection work will be taken up as & when required.
Barakar	There is no embankment on either side of the river in this stretch. Bank protection works are taken up as and when required to protect the adjoining areas. At present, there is no such vulnerable zone noticed in this stretch. However, protection work will be taken up as & when required.
Dwarekeswar	There is no embankment on either side of the river in this stretch. Bank protection works are taken up as and when required to protect the adjoining areas. A bank protection work of length 300 m of amounting Rs. 0.91 crore will be executed in 2020-21 by which 790 people under 1.67 Ha area will be benefitted.
Kaljani	There is no illegal encroachment on the river embankments. 2.92 km bank protection work of Rs.4.44 Crore is under running by which 5900 people under 96 Ha areas may be benefitted. Further, 1.01 km bank protection work of Rs. 1.52 Crore will be taken during 2020-21, by which 3000 people under 74 Ha areas may be benefitted.
River	Demarcation of flood plain, removal of illegal encroachments from embankments and protection and management of flood
Karola	There is no illegal encroachment on the river embankments. 2.03 km bank protection work of Rs.3.68 Crore is under running by which 9000 people under 102 Ha areas may be benefitted.
Mayurakshi	There is no illegal encroachment on the river embankments. No such work envisaged for this stretch of river Mayurakhshi. There is no such vulnerable zone noticed in both sides of the river stretch. So at present no future plan is there for execution of protection work.
Rupnarayan	The Department has taken appropriate measure to remove illegal encroachment on the river embankments. A 1.132 km bank protection work of Rs. 3.68 Crore is under running, by which 4600 people under 158 Ha areas may be benefitted. Further, 4.50 km bank protection work of Rs. 12.96 Crore will be executed during 2020-21.
Teesta	There is no illegal encroachment on the river embankments. 10.61 km bank protection work of Rs. 31.41 Crore is under running, by which 42000 people under 1580 Ha areas may be benefitted.

XVIII. Maintaining minimum e-flow of river:

River	Maintaining minimum environmental flow of river
Vidyadhari	The river is a perennial river. There is no regulating structure exists on this river for regulation of river flow. The environmental flow is naturally maintained from the river flow which is a combination of surface flow and base flow.
Mahananda	Average flow about 15.00 cumec is being released from Mahananda Barrage throughout the day during lean season since last three year, for maintaining minimum environmental flow of river.
Churni	The river is non-perennial. There is no regulating structure exists on this river for regulation of river flow. The environmental flow is naturally maintained from the river flow which is a combination of surface flow and base flow.
Dwarka	
Janangi	
Mathabhanga	
Kaljani	
Dwarekeswar	
Karola	
Silabati	
Ganga	The river is a perennial river. The environmental flow is maintained through the release from the Farakka Barrage throughout the year.
Damodar	There is no regulating structure in West Bengal. However there is a dam in Panchet over Damodar river in Jharkhand under the control of DVC, which regulates the flow through this river. This release from the Dam, along with the contribution from the uncontrolled catchment of the d / s of the dam, maintains environmental flow in the river.
Kansi	The discharge through Kansabati river is regulated from the major dam at Mukutmanipur, Bankura. The regulated release from dam, along with the contribution from the uncontrolled catchment of the d / s of the dam, maintains environmental flow in the river.
Barakar	There is no regulating structure in West Bengal. However there is a dam in Mithon over Barakar river in Jharkhand under the control of DVC, which regulates the flow through this river. This Release from the Dam, along with the contribution from the uncontrolled catchment of the d / s of the dam, maintains environmental flow in the river.
Mayurakshi	There is no regulating structure in West Bengal. However there is a dam in Massanjore over Mayurakashi river, which regulates the flow through this river. This release from the Dam, along with the contribution from the uncontrolled catchment of the d / s of the dam, maintains environmental flow in the river.
Rupnarayan	The river is perennial river. There is no regulating structure exists on this river for regulation of river flow. The environmental flow is naturally maintained from the river flow which is a combination of surface flow and base flow.
Teesta	Depending on water availability, down-stream release is regulated.

XIX. Plantation activities along the rivers:

River	Plantation activity planned	Status of plantation
Vidyadhari	0.275 ha	Advance (Nursery work): completed.
Mahananda	29.8 ha	
Churni	7.265 ha	
Ganga	6 ha	
Damodar	20 ha	
Jalongi	8.49 ha	
Kansi	10 ha	
Barakar	50 ha	
Dwarekeswar	40.6 ha	
Rupnarayan	20 ha	
Karola	30 ha	

XX. Development of bio-Diversity park:

River	Number of biodiversity parks	Status of the biodiversity parks
Vidyadhari	4 nos. (Haroa : 3 nos; Minakhan: 1 nos)	Ongoing projects
Churni	1 no.	Ongoing project
Jalongi	3 nos.	Ongoing projects
Kansi	6 nos. (Chandrakonail : 2 nos.; Daspur I: 1 no.; Kharagpur I: 1 no.; Midnapore: 1 no.; Sabang: 1 no.)	Ongoing projects
Ganga	3 nos. (Budge Budge II: 1 no.; Diamond I: 1 no.; Diamond II: 1 no.)	Ongoing projects
Dwarekeswar	2 nos. (Bankura I: 1 no.; Onda I: 1 no.)	Ongoing projects
Mahananda	2 nos. (Phansidewa: 1 no.; Matigara: 1 no.)	Ongoing projects
Rupnarayan	3 nos. (Baidyanathpur: 1 no.; Orphuli: 1 no.; Antila: 1 no.)	Ongoing projects
Mayurakshi	Plan of 18 ha biodiversity park	

XXI. Reuse of Treated Water: The Department of UD & MA has already framed a Policy on The Re-Use of Treated Water & notified it on 30th June 2020. The same has been uploaded in the Official Website of the Department.

http://www.wburbanservices.gov.in/page/cms/ngt_policy_ae3077

Department has identified Kalyani Town as a Model for re-use of the treated water generated at the Kalyani STP under KMDA. KMDA is preparing DPR in house for reusing the treated water for cleaning of Stadium, Gardening & use by Kalyani Krishi Viswa Vidyalaya. The DPRs are in progress & would be finalized soon.

Department of UD & MA has constituted one Liquid Waste Management Committee under the chairmanship of Special Secretary of the Department for smooth & efficient monitoring. The Committee sits every fortnightly & reviews the progress done in each month.

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

River Karola (P-V) has been identified as the model river and the work is in progress at

site. Cleaning of drains, cutting of bushes has been complete. The work is expected to be completed by February 2020 & 99% of the work achieved.

XXIII. Status of Preparation of Action Plan by the 13 Coastal States: Action Plan for Digha Coastal town has been prepared.

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

State Environmental Impact Assessment Authority-West Bengal has notified a policy on Environmental Clearance on Mining projects.

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

1. West Bengal River Rejuvenation Committee is holding meeting regularly to examine the progress of work.
2. State Environmental Monitoring Committee is holding meetings to assess the activities of all NGT cases.
3. Liquid Waste Monitoring Committee has been constituted by the UD&MA Dept., GoWB and meetings are being held fortnightly.
4. A Task Force for Solid Waste Management has been constituted by the UD&MA Dept., GoWB and the Task Force is regularly reviewing the progress of activities related to Solid Waste Management & Legacy Waste Management across the State.

Details of other important Annexures:

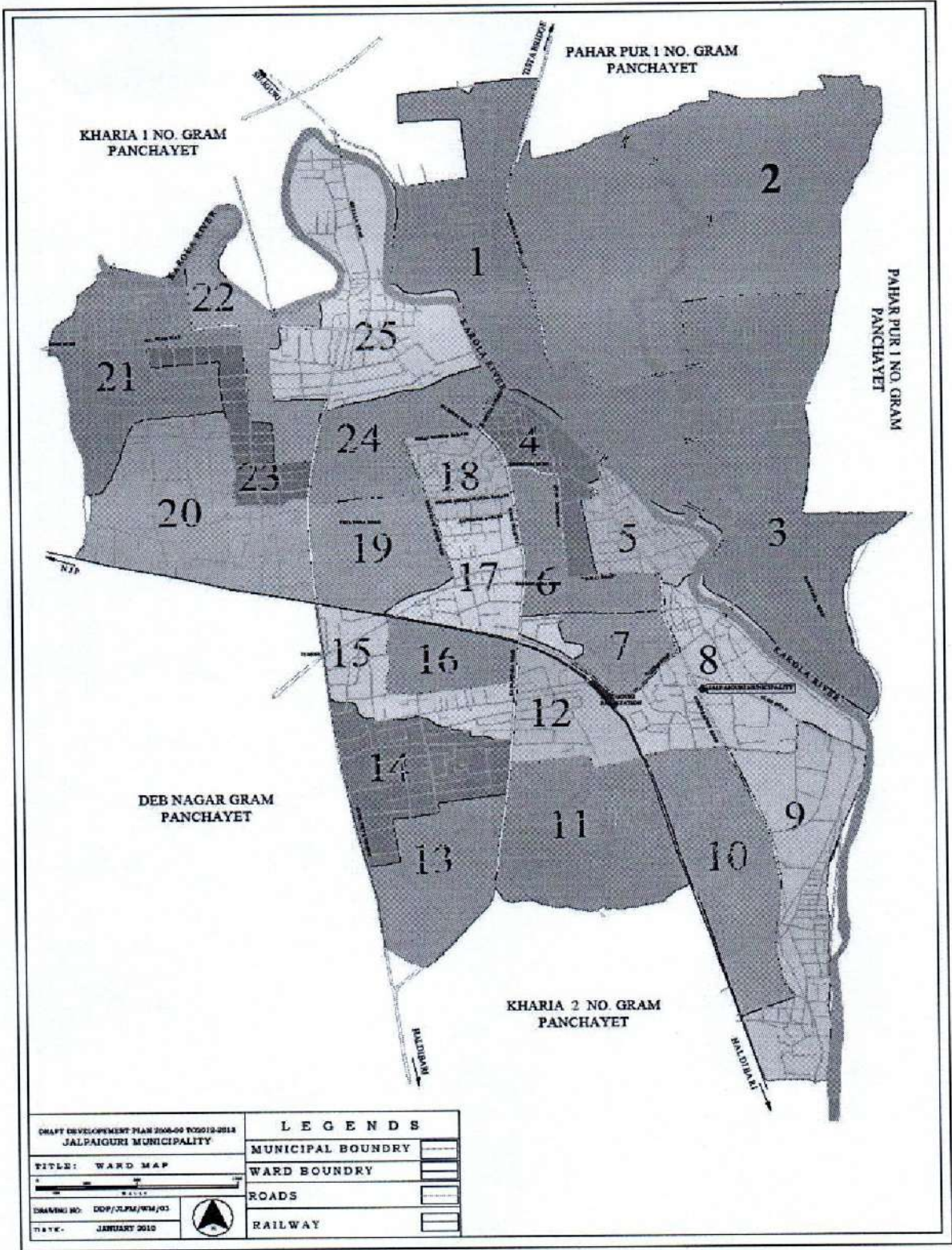
Annexure-V: Report on Monitoring and Review.

Annexure-A: Site Inspection Report.

Annexure-B: List of Ghats and Ghats Inspection Report.

Annexure-C: IEC Activities under taken.

Annexure-D: Note on Bidyadhari River



Status of Existing Waste Water Disposal Works

- **Existing System**

At present in-sanitary condition prevails in the town due to absence of proper arrangement of sewage collection and disposal system. The open drains, act as combined system carry dry weather flow coming from the households as septic tank effluent with or without soak pit. On river bank together with indiscriminate solid waste dumping is common sight in the town. The cumulative effect of all these pollutants leading to River Karala through these drains have resulted in deterioration of River Karala.



Waste Water Drains Leading to River Karala

There is no organized underground sewerage system in the town. As a result combined flow of D.W.F and Storm Run-off are carried away by these drains for ultimate disposal to River Teesta through River Karala and River Dhardhara. With increasing urbanization, more and more built up areas are coming up and therefore, the pollution level in river is increasing day by day.

The sanitation facility available in the forms of:-

- Sanitary latrine with septic tank at individual household.
- Sanitary latrine with septic tank for community use.
- Two pits pour flash latrines in slum areas.

Waste water from individual houses, markets and other institutions flows through the existing drains and is discharged into natural water courses.

The drainage system of the area plays an important role in carrying out waste water including storm water. Topography of the land is flat except some elevated land in the central part of the Municipal area. Water logging and drainage problem in some parts of the town still persist due to back flow of flood water of river Teesta through Karala. The rainwater from the upland of Jalpaiguri town and its adjoining area is causing water logging at certain parts of the town.

- **Waste Water Flow carried by Drains**

River Karala and Dhardhara receive waste water of Jalpaiguri town. There are about thirty seven (37) numbers (minor & major) outfall channel discharging either into River Karala or Dhardhara. All these outfalls are open surface drain receive both Dry weather and Storm water discharges. The details are given below.

Details of Outfall Drains

Sl. No.	Outfall No.	Location (Ward No.)
1	O/F K/1	Behind AC College (Ward No. 21)
2	O/F K/2	Behind AC College (Ward No. 21)
3	O/F K/3	Beside Muslim Burial Ground (Ward No. 22)
4	O/F K/4	Beside Muslim Burial Ground (Ward No. 22)
5	O/F K/5	Beside Burning Ghat (Ward No. 22), within Maskalaibari Crematorium Compound
6	O/F K/6	North of NSBT (Ward No. 25)
7	O/F K/7	On Gosala Road (Ward No. 25)
8	O/F K/8	Opposite to Gosala Road (Ward No. 1), Indira Colony
9	O/F K/9	On Gosala Road (Ward No. 25)
10	O/F K/10	Opposite to Gosala Road (Ward No. 1), near Rajbari Para
11	O/F K/11	On Gosala Road (Ward No. 25)
12	O/F K/12	Opposite to Gosala Road (Ward No. 1)
13	O/F K/13	Behind NBSTC Bus Terminus (Ward No. 25), behind Prantik Lodge, Netaji Para
14	O/F K/14	Beside the RCC bridge on Karala near Stadium (Ward No. 25), Santi Para
15	O/F K/15	Beside Basic Training Institute (Ward No. 25), Santi Para
16	O/F K/16	Near Beguntari More (Ward No. 4), Din Bazar
17	O/F K/17	Behind Hospital (Ward No. 4), Samaj Para
18	O/F K/18	Dhardhara River (Ward No. 3)
19	O/F K/19	Opposite to USUSI Lodge (Ward No. 5), Babu Para
20	O/F K/20	Beside Kala Bhawan (Ward No. 3)
21	O/F K/21	Near Karala Girl's School (Ward No. 8), Babu Para
22	O/F K/22	Beside the Ghat on River Karala near Karala Girl's School (Ward No. 8)

23	O/F K/23	Behind PWD Building (Ward No. 3), behind Netaji Sagrahasala
24	O/F K/24	Beside RCC Bridge on River Karala near Tista Udyan (Ward No. 8), behind Maha Maya Kali Mandir
25	O/F K/25	Southern End of the Town (Ward No. 9), Pilkhana Para
26	O/F D/1	East of Raj Dighi (Ward No. 2), Raikat Para
27	O/F D/2	East of Raj Dighi (Ward No. 2), Raikat Para
28	O/F D/3	East of Raj Dighi (Ward No. 2), Raikat Para
29	O/F D/4	Behind Jail (Ward No. 2), Sen Para
30	O/F D/5	Beside RCC Bridge on Dhardhara (Ward No. 2), Raikat Para
31	O/F D/6	Behind Sadar Hospital (Ward No. 1)
32	O/F D/7	Behind Sadar Hospital (Ward No. 3), Sen Para
33	O/F D/8	Behind Sadar Hospital (Ward No. 3), Sen Para
34	O/F D/9	Behind Studen Hostel of Institute of Pharmacy (Ward No. 3)
35	O/F D/10	On Hospital Road (Ward No. 1), near RCC bridge on Dhardhara
36	O/F D/11	On Hospital Road (Ward No. 1), near RCC bridge on Dhardhara
37	O/F D/12	On Hospital Road (Ward No. 1), near RCC bridge on Dhardhara

1.6.3 Details Flows in Drains

Detailed survey was conducted (**Drawing No. 1**) to find out the location of these outfall drains at River Karala. Flows of these drains were measured at the point of outfall into the Karala River once a week on hourly basis for four weeks – three on week days and the fourth on Sunday.

The average results (10 hrs average) as obtained on the basis of these studies are given below (**Enclosure 2**).

Details of Discharge by Drains

Sl. No.	Drain No.	Drain Name	Starting Point	Outfall Point
38	O/F K/3	Near Muslim Burial Ground	From Maskalaibari Road	River Karala near Burial Ground
39	O/F K/5	-	Near Ananda Chandra College	Near Maskalaibari Burning Ghat at Karala
40	O/F K/8		Boundary of Khaira 1 No. GP	Near the RCC Road Culvert
41	O/F K/10		Near Teesta Bridge Road	Opposite to Gosala Road at River Karala

42	O/F K/13		Ward No. 23	River Karala behind NSBT
43	O/F K/18	Dhardhra River	Northern Boundary of the Town	River Karala near Hospital
44	O/F K/21		Near DVC More	River Karala behind Kotwali PS
45	O/F K/24		Near Jalpaiguri Town Railway Station	River Karala beside Karala Bridge
46	O/F D/10	Hospital Road	Near Sadar Hospital	River Dhardhara near RCC Bridge
47	O/F G/1		Near Jalpaiguri Town Railway Station	At Gadadhar Khal

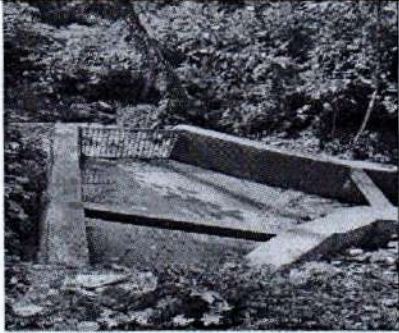
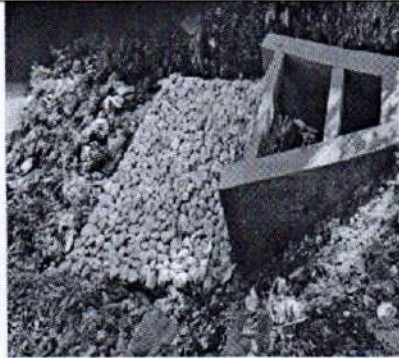
Primary Treatment of sewerage for the river KAROLA within Jalpaiguri Town in respect of HONB'LE NGT directives.

WORK EXECUTED BY THE MED

- A scheme has been taken up for Primary Treatment of sewerage for the river KAROLA within Jalpaiguri Town AS PER Hon'ble NGT's directives. Total sewerage produced from Jalpaiguri town is mainly of domestic type which are being discharged to the Karola river through drains at 47 nos points. The primary treatment of sewerage is to be done by setting out screening & aeration system followed by disinfection at outfall point of these drains before discharging into river. In this scheme M.S. framed grating 50MM grids are being erected at each outfall point of existing drain with RCC/CC guard wall. This grating will detain all debris of size greater than 2", so that river will get debris free drainage water. In front of the grating boulder apron are provided in three to four steps for proper aeration of sewerage which will decrease the BOD of polluted water before mixing with the river water as well as it increase the dissolved oxygen of water. Then disinfection by chlorination is to be done to remove micro-organism like coli-form etc. This is merely a temporary measure of Bio-remediation of polluted water.
- The work order for screening & aeration system was issued on 02.07.2020 with an estimated cost of Rs.35, 50,298.00. Now, work is almost completed except few finishing works.
- The disinfection by chlorination work of sewage before discharging into the river by adding suitable doses of Sodium-Hypochlorite at different locations are also being taken-up.

DETAILED PROGRESS REPORT

Name of work: Primary Treatment of sewage water with with Screening arrangement aeration etc. at outfall point of drains to KAROLA RIVER
WORK COMPLETED IN ALL THE 47 OUTFALLS.

SL. NO.	LOCATIO N	NO. OF DRAINS/O UTFALL	PRE-CONSTRUCTION PHOTOGRAPH	POST-CONSTRUCTION PHOTOGRAPH	STATUS
1	Near PWD more	2			COMPLETED
2	Beside RCC Bridge on River Karala near Teesta Udyan (Ward No.-8) behind Mahamay a Mandir	1			COMPLETED

File No. PRD-24023(11)/1/2020-JS(PRD)-Dept. of PRD

Government of West Bengal
Panchayats & Rural Development Department
Joint Administrative Building (6th to 9th Floors)
Salt Lake, Block - HC7, Sector - III, Kolkata - 700 106

Memo No: 873 -

Date: 10.02.2021

From: Mission Director, Mission Nirmal Bangla
& e.o. Joint Secretary to the Govt. of West Bengal

To: The Chief Executive Officer
Kolkata Metropolitan Development Authority

Sub: SLWM status report on 17 Polluted river stretches adjoining Gram Panchayats in the
State & that of Churni river adjoining Gram Panchayats

Madam,

With reference to the subject cited above, I am directed to enclose a status report (in Annexure I & II) on Solid & Liquid Waste Management (SLWM) in respect of 17 Polluted river stretches adjoining Gram Panchayats in the State & that of Churni river adjoining Gram Panchayats in respect of O.A. 673/2017 of Hon'ble NGT for your kind perusal

Yours faithfully,

 10/2/21

Mission Director, MNB & e.o. Joint Secretary

Copy enclosed: As stated

Monthly report of 17 polluted river adjoining Gram Panchayats
As on 31.12.2020

Sl. No.		Item	Remarks
1.	General Profile	No. & Name of Districts involved	12
2		No. of Blocks involved	62
3		No. of GPs involved	221
4		No. of Sansad involved	2,951
5		No. of total household of Gram Panchayats	7,94,411
6	Progress of SWM	No. of GPs where IEC done	197
7		No. & Name of Districts where SWM activity undertaken	12
8		No. of Blocks where SWM activity undertaken	61
9		No. of GPs where SWM activity undertaken	197
10		No. of Sansad where SWM activity undertaken	629
11		Total no. of household covered by SWM	2,05,889
12		No. of GP for which DPR has been prepared	45
13		No. of GP for which DPR has been approved by SLSC	23
14		No. of household where composting is done at household level	2,578
15		No. of GP wherein land has been identified for CPU	49
16		No. of GP wherein CPU is under construction	5
17		No. of GP wherein construction of CPU is completed	15
18		No. of GP where CPU is functional	8
19		No. of household where segregation is done	24,251
20		No. of households wherefrom solid waste is collected	7,761
21		Quantity of biodegradable waste collected (Kg/ day) in the Dec,2020	3,176
22		Quantity of non-biodegradable waste collected (Kg/ week) in the Dec,2020	6,171
23		Quantity of compost produced (Kg/month) in the Dec,2020	18,017
24		Quantity of compost marketed (in Kg/ month) in the Dec,2020	10,332
25		Quantity of recyclable items sold (in Kg/ month) in the Dec,2020	255
26		Total revenue earned (Rs. in Lakh) in the Dec,2020	0.33
27		No. of GPs where use of plastic (< 50 micron) banned	155
28		No. of GPs where networking of vendors for recyclable wastes done	3
29		No. of PWMU established	0
30	Progress of LWM	Total no. of private tube well	1,79,864
31		Total no. of private tube well with platform	1,06,958
32		Total no. of private tube well with soak pit	68,359
33		Total no. of public tube well	26,277
34		Total no. of public tube well with platform	22,044
35		Total no. of public tube well with soak pit	13,412
36		Total no. of ponds where duckweed cultivation is done	822
37		Total no. of beautification project undertaken	106
38		Total no. of saplings planted in last 2 years	10,22,136

Measures for Liquid Waste Management:

1. Platform and soak pit construction of public and private tube well and other water sources is done to address the issue of grey water and storm water.
2. Water stabilization pond also may be constructed for this purpose.

Report of Churni polluted river adjoining Gram Panchayats

As on 31.12.2020

Sl. No.		Item	Remarks
1.	General Profile	No. & Name of Districts involved	1
2		No. of Blocks involved	4
3		No. of GPs involved	14
4		No. of Sansad involved	201
5		No. of total household of Gram Panchayats	52,013
6	Progress of SWM	No. of GPs where IEC done	14
7		No. & Name of Districts where SWM activity undertaken	1
8		No. of Blocks where SWM activity undertaken	14
9		No. of GPs where SWM activity undertaken	14
10		No. of Sansad where SWM activity undertaken	10
11		Total no. of household covered by SWM	1,045
12		No. of GP for which DPR has been prepared	2
13		No. of GP for which DPR has been approved by SLSC	1
14		No. of household where composting is done at household level	210
15		No. of GP wherein land has been identified for CPU	2
16		No. of GP wherein CPU is under construction	0
17		No. of GP wherein construction of CPU is completed	2
18		No. of GP where CPU is functional	1
19		No. of household where segregation is done	1,045
20		No. of households wherefrom solid waste is collected	1,045
21		Quantity of biodegradable waste collected (Kg/ day) in the Dec.2020	515
22		Quantity of non-biodegradable waste collected (Kg/ week) in the Dec.2020	3,570
23		Quantity of compost produced (Kg/month) in the Dec.2020	2,560
24		Quantity of compost marketed (in Kg/ month) in the Dec.2020	1,800
25		Quantity of recyclable items sold (in Kg/ month) in the Dec.2020	255
26		Total revenue earned in the Dec.2020	21,400
27		No. of GPs where use of plastic (< 50 micron) banned	13
28		No. of GPs where networking of vendors for recyclable wastes done	0
29		No. of PWMU established	0
30	Progress of LWM	Total no. of private tube well	5,534
31		Total no. of private tube well with platform	15,973
32		Total no. of private tube well with soakpit	9,265
33		Total no. of public tube well	5,534
34		Total no. of public tube well with platform	1,315
35		Total no. of public tube well with soakpit	915
36		Total no. of ponds where duckweed cultivation is done	0
37		Total no. of beautification project undertaken	1
38		Total no. of saplings planted in last 2 years	69,217

Report on quantum of DWF Treated in the East Kolkata Facultative & Polishing Ponds.

The major drainage basin, their canals and tributaries and their coverage areas comprise of nine basins, namely: **Kolkata Basin** (Town system+ suburban system), **Maniktala Basin**, **Tollys Nullah basin**, **Topsia Tangra basin**, **Hooghly basin**, **Tollygaunge-Panchannagram basin**, **Bagjola basin**, **Monikhali basin** and **Churial basin**. Out of these basins, DWF from **Kolkata System** (Town system + suburban system), **Maniktala system** and **Topsia-Tangra system** passes through to East Kolkata Facultative Ponds and polishing Ponds.

The Kolkata System covers ward no. 7-12,15-28,36-55,60-64,68-70,71-73, 83-98 and Part of Ward 56,57,69,55,71,75 of the area of Bagbazar, Shyambazar, Sovabazar, Taltola, Barabazar, Beniapur, Entally, Ballygunge etc. The Maniktala system covers ward no. 13,14 and 29-35 of the area of Maniktala, Ultadanga, Kankurgachi, Phoolbagan, Beliaghata etc. Topsia Tangra system covers Ward no. 56, 57 & 59 and part of ward 58 & 66 of the area of Topsia, Tangra and Chingrihata.

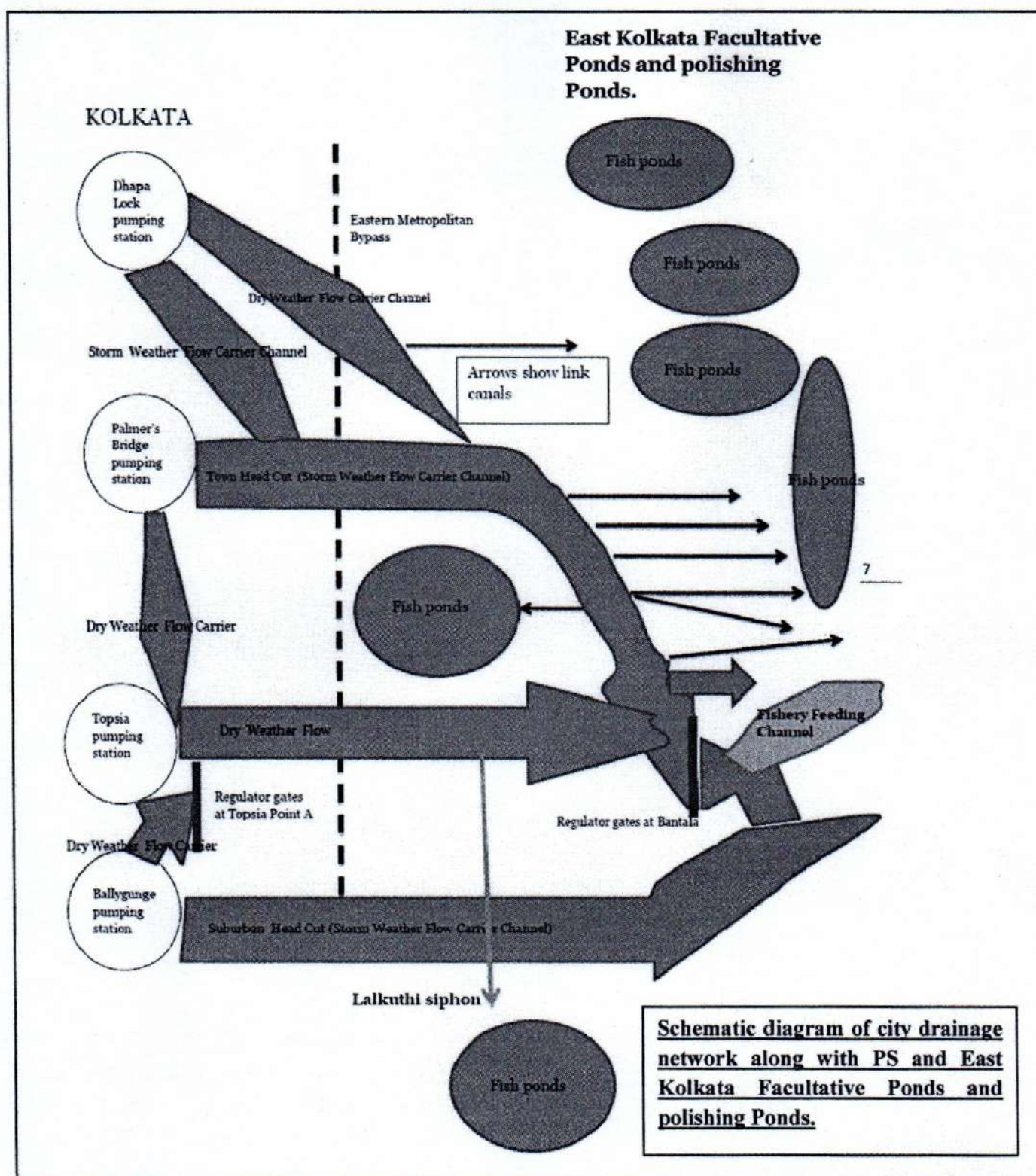
Kolkata has a combined sewerage system through which domestic sewage is intercepted and pumped through the pumping stations and diverted through the outfall channels which flows for about 5 to 6 kms before reaching the EKW. Kolkata system discharges DWF through Ballygaunge Drainage Pumping Station and Palmer Bridge Pumping Station, Maniktala system serves through Dhapa Lock Pumping Station and Topsia Tangra System discharges waste water through Palmer Bridge Pumping Station, Topsia Pumping Station, Topsia Point-A Pumping Station, Ambedkar Pumping Station, Chingrihata Pumping Station, Kulia- tangra Pumping Station , Pagladanga Pumping Station, EE-1 Minor Pumping Station and Nonadanga Pumping Station.

Average discharge from these pumping stations during lean period measured are as follows:

Sl. No.	Name of the Pumping Station	Average Discharge (in MLD)
1	Ballygaunge Drainage Pumping Station	331.40
2	Palmer Bridge Pumping Station	376.40
3	Dhapa Lock Pumping Station	115.30
4	Topsia Point A Pumping Station	22.40
5	Topsia Pumping Station	9.60
6	Ambedkar Pumping Station	23.20
7	Chingrihata Pumping Station	19.20
8	Pagladanga Pumping Station	3.20
9	Kulia Tangra Pumping Station	2.40
10	EE-1 Minor Pumping Station	4.00
11	Nonadanga Pumping Station	2.40
Total =		909.50 MLD Say, 910 MLD

3/9/24
EE-1/570/5)
09/02/21
09.02.21
DY-CEO/Actg.

09/02/21
Director General
Sewerage & Drainage



Above quantum of sewage receives it's treatment which happens by recovering the nutrients inherent in domestic sewage through an integrated resource recovery system- for growing vegetables, fish and paddy. The bulk of Kolkata Sewage passes through these outfall channels, diverted away from the river Ganga/ Hooghly for treatment by nutrient recovery in those Facultative Ponds and polishing Ponds located at different locations and connected by different link canals where the largest category of land use is fish-growing.

9/2/21
8/8/21/contn.
09/02/21
09-02-21
Dy. Secy (E)/Ad. Secy.
B.E. (S) / S. P. (S).

09/02/21

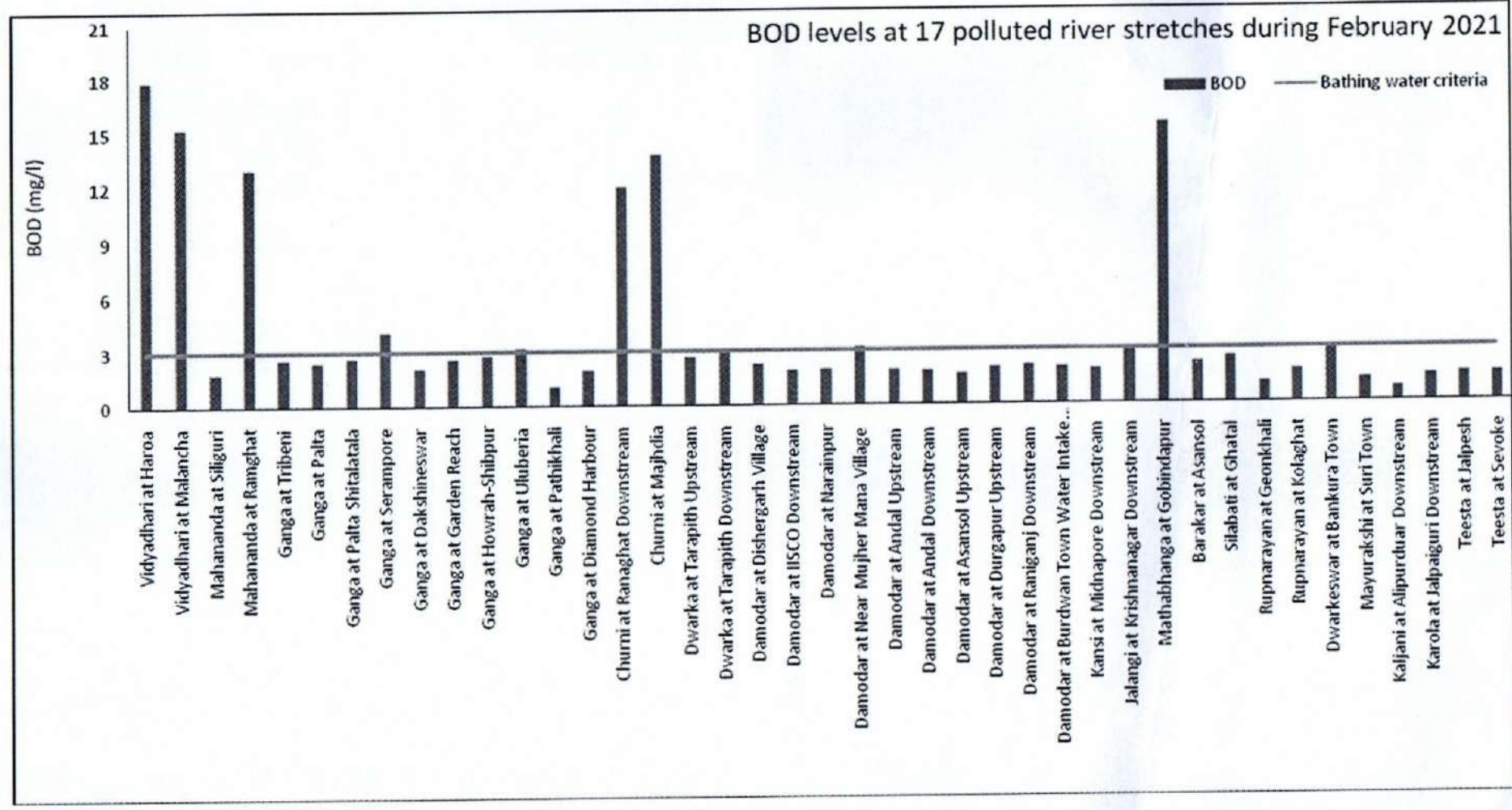
Director General
Sewerage & Drainage

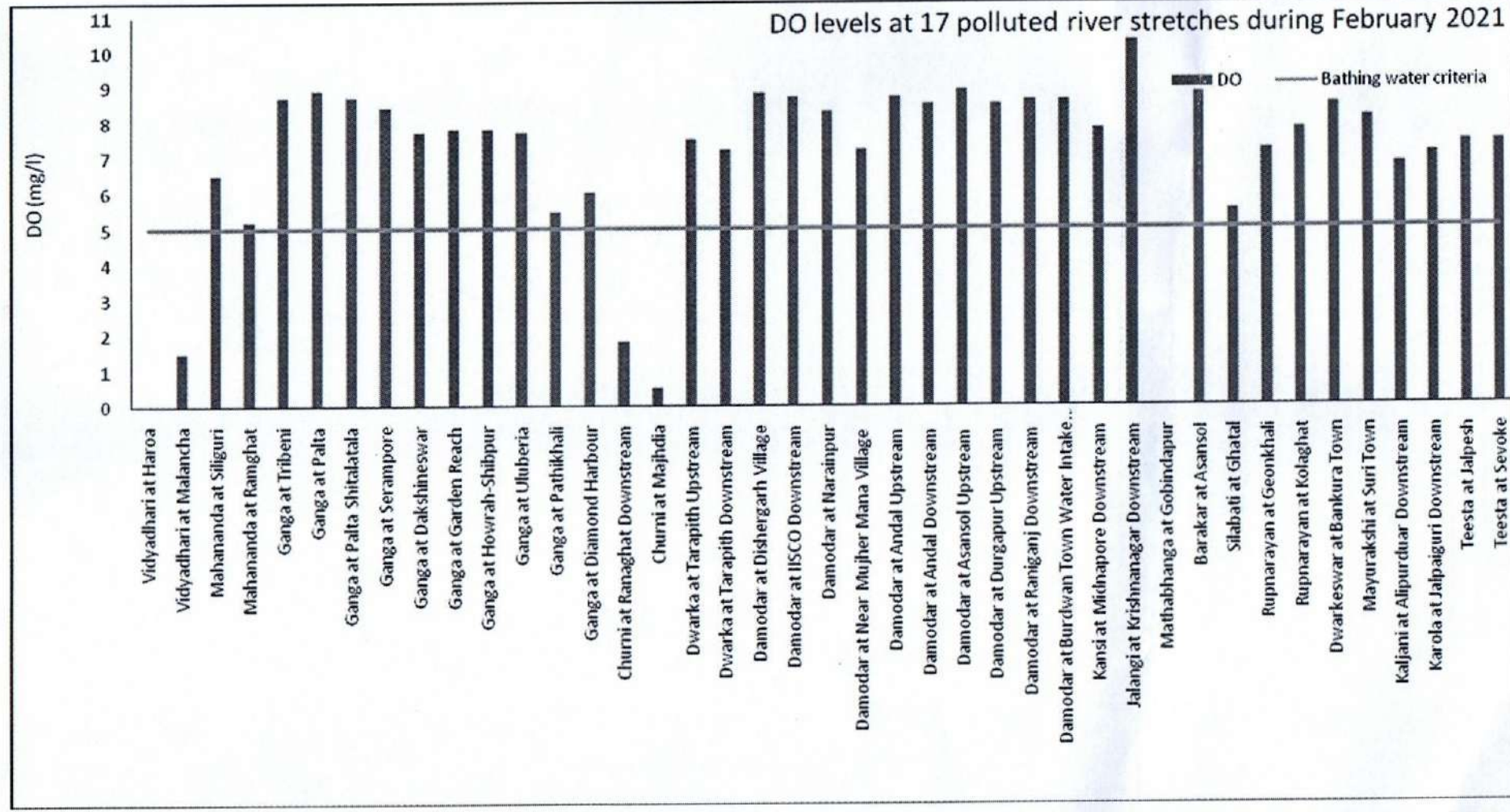
Water Quality of Polluted River Stretches of 17 rivers in West Bengal during February 2021

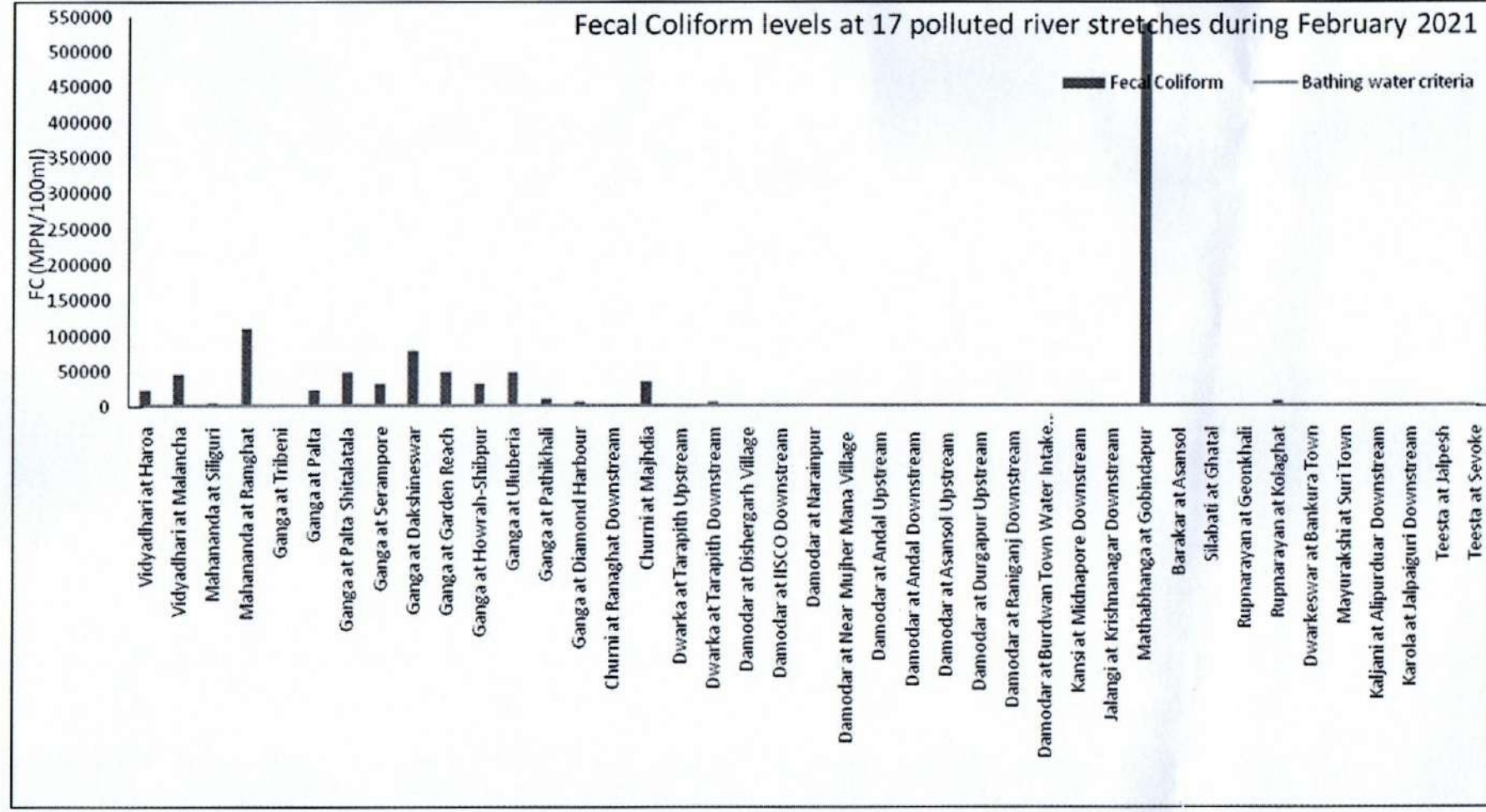
Prior ity	River	Stations	BOD (mg/l)	DO (mg/l)	Fecal Coliform (MPN/10 0ml)	Fecal Streptoc occi (MPN/10 0ml)	pH
I	Vidyadhari	Haroa Bridge (Upstream)	17.86	NIL	23000	170	7.21
	Vidyadhari	Malancha (Downstream)	15.25	1.5	46000	170	7.28
II	Mahananda	Siliguri (Upstream)	1.8	6.5	5000	140	6.9
	Mahananda	Ramghat (Downstream)	13	5.2	110000	220	6.5
III	Ganga	Tribeni	2.6	8.7	2700	120	8.08
	Ganga	Palta	2.45	8.9	23000	790	8.13
	Ganga	PaltaShitalatala	2.65	8.7	49000	1700	8.14
	Ganga	Serampore	4.1	8.4	33000	490	8.08
	Ganga	Dakshineswar	2.1	7.7	79000	240	7.48
	Ganga	Garden Reach	2.6	7.8	49000	220	7.5
	Ganga	Howrah-Shibpur	2.8	7.8	33000	220	7.87
	Ganga	Uluberia	3.2	7.7	49000	130	7.55
	Ganga	Durgachak near Pathikhali	1.1	5.45	11000	270	7.48
	Ganga	Diamond Harbour	2	6	7800	26	7.1
	Ganga	Diamond Harbour	2	6	7800	26	7.1
III	Churni	Downstream of Ranaghat Town	12	1.8	4600	1400	7.74
	Churni	Majhdia	13.75	0.5	35000	170	7.44
III	Dwarka	Upstream of Tarapith at SadhakBamdebGhat	2.65	7.5	4800	70	7.31
	Dwarka	Downstream of Tarapith, Satighat	3.1	7.2	7900	84	7.27
IV	Damodar	Dishergarh Village	2.25	8.8	4600	13	7.37
	Damodar	Downstream of IISCO	1.95	8.7	2400	12	7.15
	Damodar	Narainpur	2	8.3	2200	12	7.61
	Damodar	Near Mujher Mana Village	3.15	7.2	4100	33	7.49
	Damodar	Andal Upstream	1.95	8.7	2100	14	8.19
	Damodar	Andal Downstream	1.9	8.5	2500	24	7.77
	Damodar	Asansol Upstream	1.7	8.9	2000	14	7.59
	Damodar	Durgapur Upstream	2.05	8.5	2700	21	2.05
	Damodar	Raniganj Downstream	2.15	8.6	3200	33	7.11
	Damodar	Water Intake Point for Burdwan Town	2.05	8.6	2100	13	7.44
IV	Kansi	Downstream at Midnapore	1.95	7.8	4900	110	8.59
IV	Jalangi	Downstream of Krishnanagar	2.9	10.3	4900	220	8.04
IV	Mathabhan ga	Gobindapur	15.38	Nil	540000	2400	7.37
V	Barakar	Asansol	2.25	8.8	2200	26	7.57
V	Silabati	Ghatal (Downstream)	2.55	5.5	4900	93	7.15
V	Rupnarayan	Geonkhali	1.15	7.2	450	110	7.8

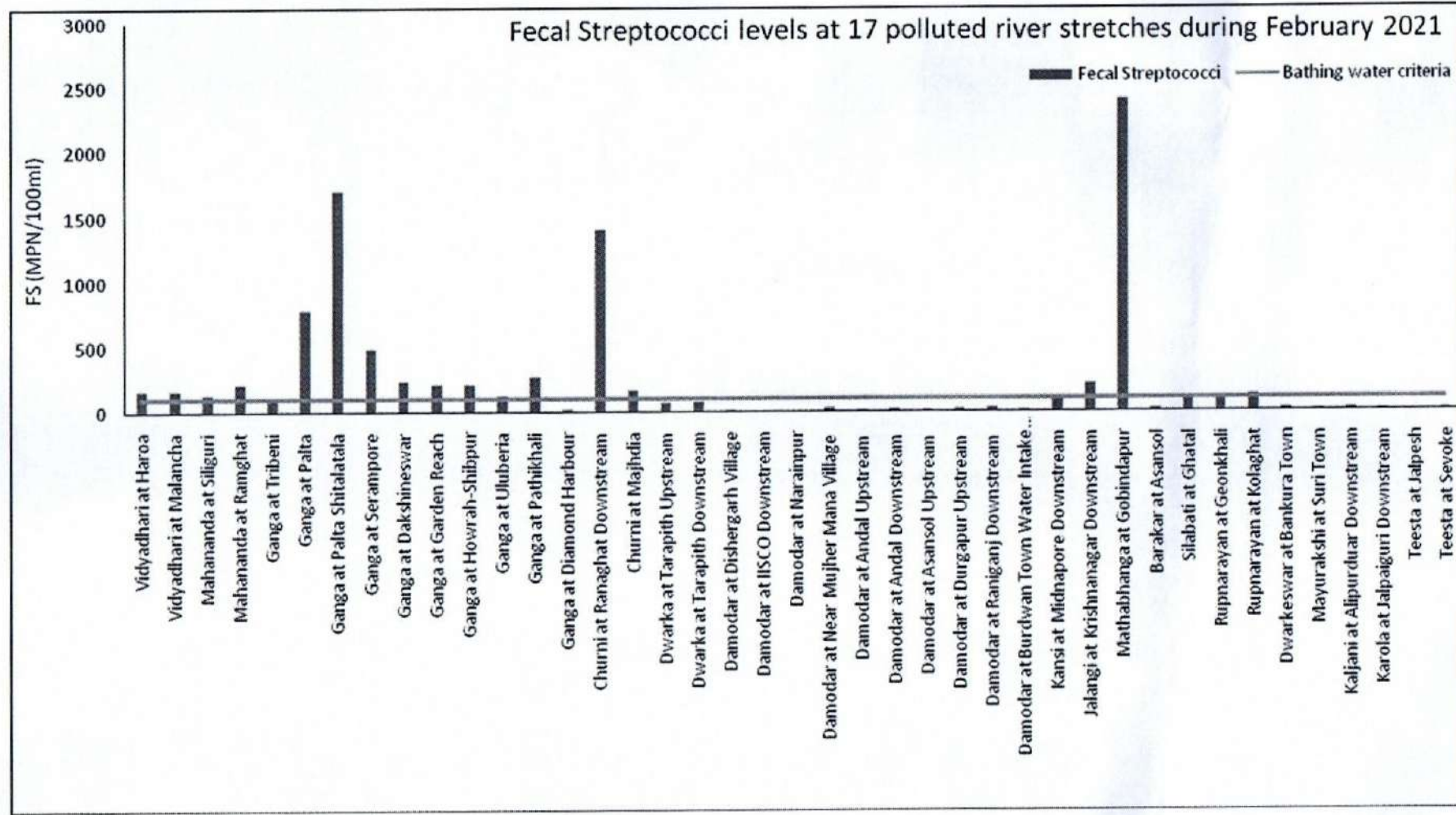
Water Quality of Polluted River Stretches of 17 rivers in West Bengal during February 2021

Prior ity	River	Stations	BOD (mg/l)	DO (mg/l)	Fecal Coliform (MPN/10 0ml)	Fecal Streptococci (MPN/10 0ml)	pH
	Rupnarayan	Kolaghat (Downstream)	1.8	7.8	9400	130	7.81
V	Dwarkeswar	Bankura Town	2.9	8.5	2000	22	7.53
V	Mayurakshi	Suri Town	1.3	8.1	1400	14	7.4
V	Kaljani	Downstream of Alipurduar	0.8	6.8	2600	24	7.52
V	Karola	Downstream of Jalpaiguri	1.5	7.1	2200	13	6.9
V	Teesta	At Jalpesh	1.6	7.4	3400	12	7.14
	Teesta	At Sevoke	1.6	7.4	2200	13	7.1









Annexure - V

Monitoring and Supervision of Pollution Abatement Measures taken in river Ganga.

The Department of UD & MA is closely monitoring the work of pollution abatement in river Ganga with due care and concern. Review meetings are being held at regular intervals under the Chairmanship of Ld Principal Secretary. Two such meetings were held on 03rd March and 18th March 2021 with all the Executing Agencies.

Department of UD & MA has also constituted a Liquid Waste Management Committee to supervise the Progress in this regard. The Committee meets at regular intervals and reviews the work of Liquid Waste Management being done in river Ganga. The last meeting was held on January 2021.

The Department has closely reviewed some of the long pending Projects on river Ganga, the updated Status of which are as given below:

❖ ROW permission from Ministry of Defence, at Anandpuri area for Barrackpore STP.

The Department has been continuously pursuing this long pending issue with Ministry of Defence. On 11th March, MOD after hearing the case, has been satisfied and finally granted the ROW and the work is going to start immediately.

❖ Hooghly -Chinsurah I&D and STP Project:

Name of the Project: Development of Interception and Diversion Network and STP with Waste Water Treatment Facility on a "Design-Build-Operation-Transfer" (DBOT) Model for Hooghly – Chinsurah Municipal Area in Hooghly District, West Bengal with 15 Years Operation & Maintenance Period under NamamiGange Programme.

Project Cost: Rs. 154.73 Crores.

- The Administrative Approval & Expenditure Sanction (AA &ES) from NMCG vide memo no. F. No. T-15/2013-14/354/NMCG Dated 28th May, 2020.
- A draft 'e'-NIT and Bid Document had been prepared and sent to NMCG for their observations on 13th October, 2020.
- After reviewing the draft NIT & Bid document, NMCG has made some observations and approved the same on 13.11.2020
- Final 'e'-NIT both abridged and detailed after incorporation of the observations from NMCG have been prepared and invitation of e-tender vide newspaper publication and vide assigned web portal on 23.11.2020.

- Due to non-availability of land, the tender was extended in 3 times and the last date of bid submission was 17.02.2021.
- The Department has already found out an alternative land for this STP project at Taldanga. The site has around 60 trees which need to be uprooted. Department has approached Forest Department for speedy uprooting and the work will start soon. KMDA, the Executing Agency has already informed the matter to NMCG.

❖ **Tolly Nullah**

* Tender was Published 1st time on 27th Apr 2018 in HAM PPP model.

* The bid was extended time and again for 11 times up to 12/12/2018, as per the directives of NMCG, upon request on behalf of the prospective bidders. An Addendum to the tender clauses was uploaded, as instructed by NMCG. But it became fruitless as no bid was dropped.

*Based on the failure of 1st time Tender based on HAM PPP model, due to the financial burden for 60% of the Project Cost in the form of loan from Bank for a long term i.e. 15 years (for O&M).

*2nd time Tender based on DBOT model, as approved by NMCG was published on 26th Dec 2019.

*Again keeping in view the failure of 1st time Tender the Bid document was amended time and again for 14 times up to 10/12/2020, as per the directives of NMCG, upon request on behalf of the prospective bidders, so as to make the Bid Successful. And finally the Bid was opened on 10/12/2020 with single Bid i.e. by "EMS-TCPL-VVIP JV"

*A draft Technical Bid Evaluation Report has been submitted to NMCG for their observation. Post which, the final TBER would be submitted to NMCG/World Bank and approval would be sought for opening up of Financial Bid.

❖ **Rehabilitation of Keorapukur& Garden Reach STP:**

NMCG has sanctioned the project on 05.03.2018 amounting to Rs. 165.16 Crores. State Government is revising the scope. KMC, the Executing Agency for 'Condition Assessment' of the STP of Keorapukur and Garden Reach has deployed one Agency. The Agency would submit the Assessment Report along with DPR by 31st March 2021, after which NMCG would be requested to grant permission for switching over of the Project from HAM model to DBOT model.

❖ **Faecal Sludge and Septage Management:**

West Bengal is already having a Septage Management Plant, details of which are given as under:

Integrated Septage Treatment Plant for South Dumdum within Promodnagar Colony.

Capacity of the Plant	: -	30 KLD (Commissioned)
Construction area	: -	0.562 Acre
Area served	: -	13.54 KM ²
No of ward served	: -	35 Nos
Population served	: -	4, 10,524 (2011 Census)

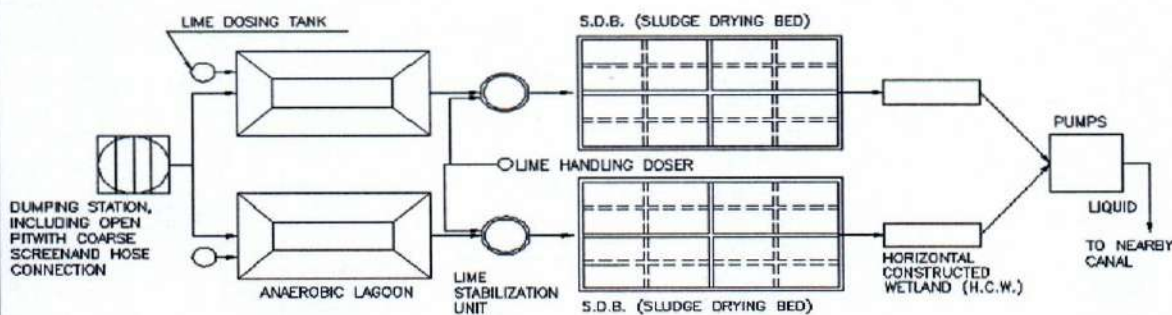
Components:-

1. Construction of 30 KLD Septage Treatment Plant.
2. Augmentation & Refurbishment of existing Cesspool/Night soil chamber.
3. Construction of approach road.
4. Supply of Cesspool.

Process of Septage Treatment Plant:-

1. The night soil of the municipal area is collected from house to house night soil chamber by cesspool & brought to the treatment plant & dumped in the Dumping Station which then passes through to the Anaerobic Lagoon to the Lime Stabilization unit. After lime stabilization the matter is sent to the Sludge drying bed. The controlled effluent is sent to the outlet for final discharge.

The flow diagram of STP is as follows:



- ✓ Another 30KLD Septage treatment plant for North Dum Dum and Baranagar Municipalities is under constructional stage.

❖ Mandatory Site Inspection Reports of the Engineers.

The Department of UD & MA has made out an Order no 115-UDMA-24011(99)/7/2021-JS(UDMA) dated 02.02.2021 wherein it has made all Engineers to visit sites compulsorily twice a month and submit a Report on the progress of the work along with good quality photographs(One Report enclosed, Annex-A).

❖ **Review by the Environment Monitoring Cell**

The Environment Monitoring Cell has been set up by the Chief Secretary West Bengal to monitor the Progress of the work with respect to Pollution Abatement. The Cell regularly monitors the work, one such meeting was held on December 2020 under the Chairmanship of Additional Chief Secretary, Environment Department, GoWB and the next meeting is scheduled on 26th March 2021.

❖ **River Rejuvenation Committee, West Bengal**

RRC also monitors the overall work of pollution abatement in 17 polluted River stretches of the state particularly with respect to BOD, COD and Total coliform. The last meeting of RRC was held on 16th March 2021. The Committee in particular discussed about the Proposed Action Plans on 22 Polluted drains discharging into river Ganga. The Executing Agencies were directed to submit a Report in this regard. Department of UD & MA has sought the Report by 25th March so that it can be scrutinised and reviewed and subsequently would be sent to CPCB by 31st March 2021.

❖ **Information on Ganga Ghats:**

- 643 no of Ganga Ghats have been identified by KMDA, SUDA and respective ULBs. Accordingly, every effort has been made for cleaning and proper maintenance of Ghat.
- 100% daily sweeping of all river ghats ensured
Community bins have been placed in all ghats (two in each ghat – green for
- Biodegradable waste and blue for non biodegradable waste)
- Anti-littering messages have been displayed in each ghat.
- Public Toilets constructed at river ghats.
- Extensive IEC activities undertaken – leaflets, posters, banners have been widely circulated by ULBs and announcements are done frequently.
- A primer on solid waste management namely Borjo Babasthaponar Sahajpath had been published by UD & MA department and widely circulated in Ganga Towns
- Regular inspection by Engineers at different Ganga Ghats has been done to ensure cleanliness and compliance of Hon'ble NGT directions
- Out of 43 Ganga Towns, 40 have been declared ODF already. This has minimized the possibility of Open Defecation near the ghats.

State Urban Development Agency (SUDA) has conducted 'Ganga Ghat inspections in 26 numbers of Ganga towns on different dates during the month of February 2021 in the districts of Hooghly, Howrah, North 24 Parganas and Murshidabad. The team has made a detailed inspection and submitted Report to the Department of UD & MA. The Department is

scrutinising the Report and would take corrective measures as soon as possible (List of towns and photographs enclosed, Annexure-B).

The team has particularly mentioned the ghats of Chandanagore, Badyabhabati, Rishra, and Bahrapore as clean, though in few cases the IEC banners were damaged due to Amphan Cyclone but the Municipalities have already taken measures to renovate them.

- **IEC Activities**

In compliance with the latest order of Hon'ble NGT in OA-200, Kolkata Municipal Corporation has put up boards in local languages on the banks of river Ganga with a message 'not to pollute water' (photographs enclosed, Annexure -C)

❖ **Mechanism of Online monitoring**

* As per the mandate of Hon'ble NGT, OCEMS are to be installed in all the STPs of the State. To expedite the matter, Department of UD & MA has constituted a Technical Committee for speedy and smooth installation of OCEMS under the Chairmanship of CEO KMDA vide Order no-574-UD-KMDA-33099-1-2021-EM dated 23.02.2021. The committee would henceforth look after this matter and would update UD & MA from time to time regarding the progress. The Committee is represented by the Officials of KMDA, KMC and MED.

* KMDA has already invited a tender regarding this matter and the Technical bid was opened on 25.01.2021. However, the tender did not mature and KMDA has gone for second call. Last date of submission of the Bid was 10.03.2021 and opening of Technical Bid was 12.03.2021.

❖ **Use of Mobile App.**

* WBPCB has developed a mobile app – 'Paribesh' which gives real time water quality data of the polluted river stretches in WB, which is now being widely used and corrective measures are being taken accordingly.

* CPCB has developed a mobile app 'STP Monitoring app' where the static and dynamic data of all the STPs will be digitised. Department of UD & MA in cooperation with CPCB has organised an exclusive training for West Bengal on the use of this app on 18th March 2021 and fixed up the target date of completion of the digitisation process by 30th April 2021.

Site Inspection Report

Name of the Executing Agency- Kolkata Municipal Corporation

Reference:

Month- February 2021
Version: 20210322V2Memo No. 115 -UDMA-24011(99)/7/2021-JS(UDMA) dated
02/02/2021 of Joint Secretary UD&MA Department, Govt. of WB.Compulsory Site Visit of the Engineers of Executing
Agencies in connection with NGT matters.

1. Physical progress of the operational STPs.

Sl. No.	Location	ULB Jurisdiction	Capacity in MLD	Actual utilization at present	Reasons for under utilization if any	Status of installation of OCEMs	Status of House Connection (if any)	Incremental progress over the last visit
A	B	C	D	E	F	G	H	I
1	Bangur	KMC	52	26	Low incoming sewage from Pre Terminal Station	2 nd Time tender invited by KMDA for implementation of 47nos. OCEMS (KMDA-41 + KMC-5 + MED-1) Publish Date: 05/02/2021, Bid Submission End Date: 10/03/2021, Bid Opening Date: 12/03/2021.	100%	NA
2	Garden Reach	KMC	57	53.38	Reserve capacity for future & peak demand		100%	NA
3	Keorapukur	KMC	45	36	Low incoming sewage at Terminal Station due to failure of network between sections Naktala L.S-3-Moore Avenue L.S-4-Kudghat L.S-5 & Kamdahari- Rathtala L.S1A- Usha Gate L.S-1B- Bansdroni L.S-2A.		100%	NA
4	Baghajatin	KMC	15	14.25	NA		100%	NA
5	Hatisur	KMC	10	8	Reserve capacity for future & peak demand		100%	NA

2. Status of the non-operational STPs.

Sl. No	Location	ULB Jurisdiction	Capacity in MLD	Installed in (year) Non functional since (year)	Current initiative towards functionalization, if any	Present Status	Incremental progress over the last visit
NA	NA	NA	NA	NA	NA	NA	NA

Site Inspection Report

Name of the Executing Agency- Kolkata Municipal Corporation

Reference:

Month- February 2021
Version: 20210322V2

Memo No. 115 –UDMA-24011(99)/7/2021-JS(UDMA) dated
02/02/2021 of Joint Secretary UD&MA Department, Govt. of WB.

Compulsory Site Visit of the Engineers of Executing
Agencies in connection with NGT matters.

3. STPs under different stages of execution.

Sl. No	Location	ULB jurisdiction	Proposed capacity in MLD	Timeline for completion	Present Status	Incremental progress over the last visit
A	B	C	D	E	F	G
1	Near WBSETCL, Joka*	KMC (KEIP)	45	March 2022	16% Piles under progress	NA
2	At Bank Plot, M.G Road*	KMC (KEIP)	40	March 2022	13.5% Land development, chlorination building & Boundary wall, piling of CCT under progress.	NA
3	At Rajpur-Sonarpur, Rania*	KMC (KEIP)	23	24 months from the date of issuance of work order.	Under Tendering Re-tendering done on 30/09/2020 Tender opened: 27/11/2020. Financial bid opened on 21/01/2021. LOA issued to the successful bidder.	NA
4	Police Telecom Department Land, near Wireless Park	KMC Tolly's Nullah Rehabilitation Project.	15.3	30 months from the date of issuing work order /date of execution of agreement.	Tender process ongoing under Tolly's Nullah Rehabilitation Project. Technical bid opened on - 10/12/2020 Technical bid evaluation is in progress.	NA
5	Near Golf Garden, Sukha pukur		5.06			NA
6	Near Kavi Nazrul Metro Station, Birji Road		5.7			NA
7	STP Near L.S 10	KMC Municipal Waste Water Project	16	52 months from the date of issuance of work order.	Proposed under Municipal Waste Water Project Budgetary estimate is of about Rs. 1551.37 Crore. Draft DPR submitted to NMCG on 31/03/2019 for approval & extension of time (EOT) NMCG approved EOT on 08/09/2020 up to 22/02/2021. Soft copy of the draft DPR resubmitted on 14/09/2020. Hard copy submitted on 01/10/2020. Virtual meeting on draft DPR held on 16/12/2020. Compliance report submitted to NMCG. Awaiting final approval of draft DPR.	NA
8	STP Near Surinaam Ghat, Dhankheti Nikashi		25			NA
9	STP Near Bhanga Khal, Gardenreach area		35			NA

Site Inspection Report

Name of the Executing Agency- Kolkata Municipal Corporation

Reference:

Month- February 2021
Version: 20210322V2

Memo No. 115 –UDMA-24011(99)/7/2021-JS(UDMA) dated
02/02/2021 of Joint Secretary UD&MA Department, Govt. of WB.

Compulsory Site Visit of the Engineers of Executing
Agencies in connection with NGT matters.

Sl. No	Location	ULB jurisdiction	Proposed capacity in MLD	Timeline for completion	Present Status	Incremental progress over the last visit
10	Proposed STP for Borough-XII	KMC (KEIIP)	70	Not yet finalized.	To be finalized based on implementation of future loan or from own resources of KMC	NA

*Trunk sewers are being laid. S&D network is to be completed by 2023. Cost for S&D System is approximately Rs. 1300 cr. Out of 1300 cr. about 510 cr. has been disbursed. Time line for balance work not within the present scope including uncovered areas to be finalized based on the time frame of implementation of future loan or from own resources of KMC. (Ward 127, 142, part of 125,126,143 &144)

Site Inspection Report

Name of the Executing Agency- Kolkata Municipal Corporation

Reference:

Month- February 2021
Version: 20210322V2

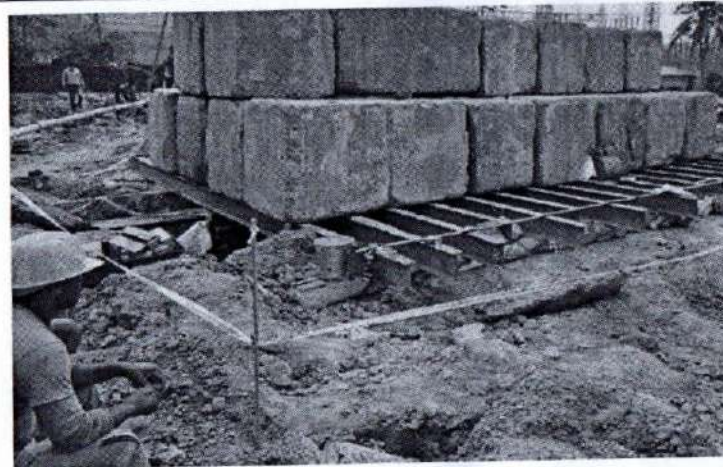
Memo No. 115 –UDMA-24011(99)/7/2021-JS(UDMA) dated
02/02/2021 of Joint Secretary UD&MA Department, Govt. of WB.

Compulsory Site Visit of the Engineers of Executing
Agencies in connection with NGT matters.

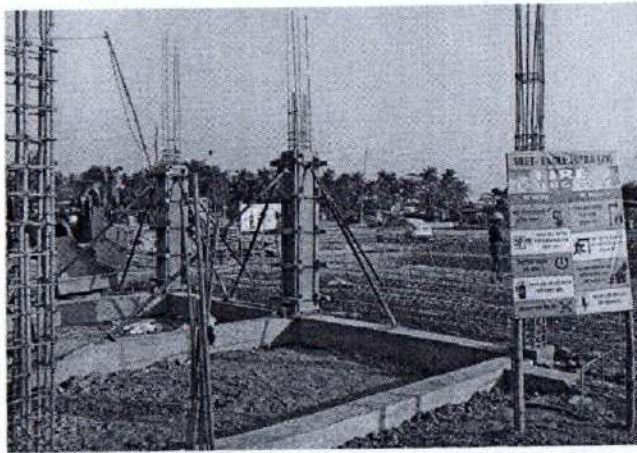
3.1 Photograph of Under Construction STP



Piling in progress at STP Near WBSETCL, Joka



Vertical Load testing on pile at STP Near WBSETCL, Joka



Construction of chlorination Room at STP, Bank Plot, M.G Road



Piling work at STP, Bank Plot, M.G Road

Site Inspection Report

Name of the Executing Agency- Kolkata Municipal Corporation

Reference:

Month- February 2021
Version: 20210322V2

Memo No. 115 -UDMA-24011(99)/7/2021-JS(UDMA) dated
02/02/2021 of Joint Secretary UD&MA Department, Govt. of WB.

Compulsory Site Visit of the Engineers of Executing
Agencies in connection with NGT matters.

4. Status of Polluted Drains discharging to river Ganga.

Sl. no	Name of drain	City/Town of confluence point	Flow of drain (MLD)*	Any STP operation/planned in the catchment area or likely diversion/interception of the drain of STP	Any alternative Pollution Abatement measures taken	Present Status	Incremental progress over the last visit
A	B	C	D	E	F	G	H
1	Dhankheti Khal	Kolkata	80.9	3 New STPs are proposed under Municipal Waste Water Project	No	DPR Stage	NA
2	Nimtala Burning Ghat Drain	Kolkata	24.9	The drains are equipped with penstock gates. No sewage is discharged to river Ganga and the DWF is diverted to designated treatment facility. Based on the recommendation of LWM Committee resolved in the 3rd Meeting held on 11/11/2020, the matter has been communicated to MS WBPCB by Municipal Commissioner on 31/12/2020.	NA	Gate Closed	NA
3	Cossipore Ghat Drain	Kolkata	9.5		NA	Gate Closed	NA
4	Tolly's Nullah	Kolkata	844.5	3 New STPs are proposed under Tolly's Nullah Rehabilitation Project.	No	Tendering Stage	NA
5	Chitpur Ghat Khal/ Circular Canal	Kolkata	458.6	The gates in the KMC area are closed and the DWF is diverted to designated treatment facility. Chief Engineer South I&WD have been requested to implement necessary measures to arrest Solid & Floating garbage reaching into Ganga, if necessary.	NA	Gates Closed	NA

* Source: WBPCB date of Monitoring 18/11/2019 & 02/12/2019

Site Inspection Report

Name of the Executing Agency- Kolkata Municipal Corporation

Reference:

Month- February 2021
Version: 20210322V2

Memo No. 115 -UDMA-24011(99)/7/2021-JS(UDMA) dated
02/02/2021 of Joint Secretary UD&MA Department, Govt. of WB.

Compulsory Site Visit of the Engineers of Executing
Agencies in connection with NGT matters.

4.1 Photograph of Outfalls South



Picture OF1: Dhankheti Khal



Picture OF2: Dhankheti Khal

Site Inspection Report

Name of the Executing Agency- Kolkata Municipal Corporation

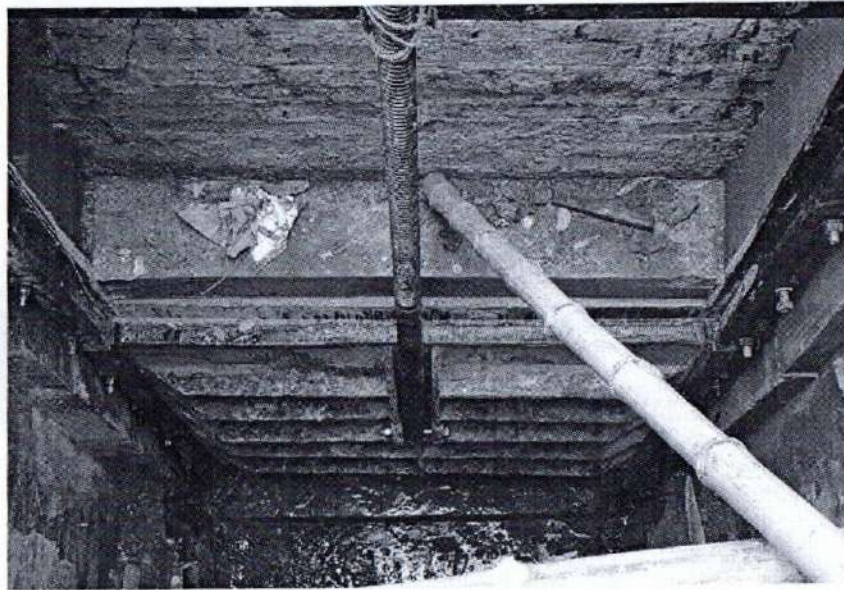
Reference:

Month- February 2021
Version: 20210322V2

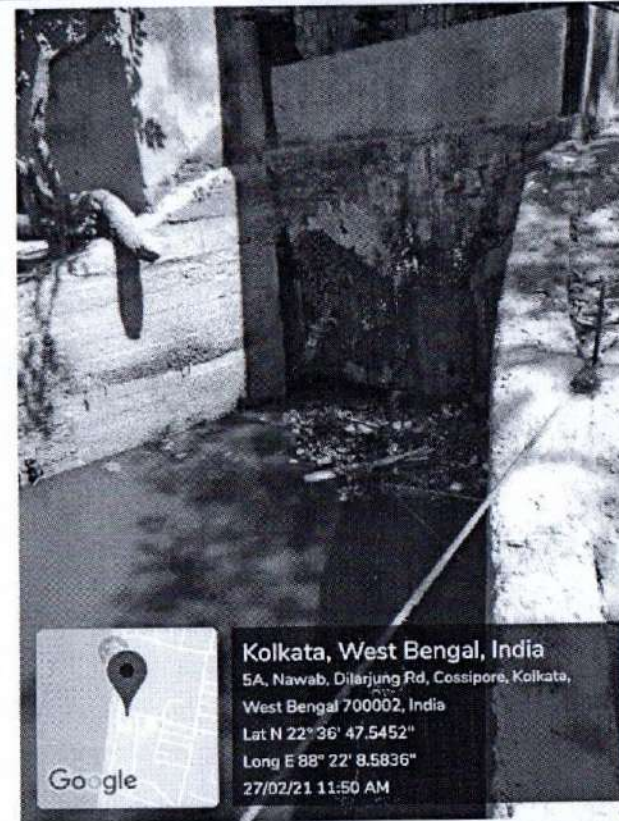
Memo No. 115 –UDMA-24011(99)/7/2021-JS(UDMA) dated
02/02/2021 of Joint Secretary UD&MA Department, Govt. of WB.

Compulsory Site Visit of the Engineers of Executing
Agencies in connection with NGT matters.

4.2 Photograph of Outfalls North



Picture OF3: Nimtala Burning Ghat Drain



Picture OF4: Cossipore Ghat Drain

Site Inspection Report

Name of the Executing Agency- Kolkata Municipal Corporation

Reference:

Month- February 2021
Version: 20210322V2

Memo No. 115 –UDMA-24011(99)/7/2021-JS(UDMA) dated
02/02/2021 of Joint Secretary UD&MA Department, Govt. of WB.

Compulsory Site Visit of the Engineers of Executing
Agencies in connection with NGT matters.

4.3 Photograph of TNP



Picture TNP1: Dredging Work at Tolly's Nullah near House of Hon'ble CM



Picture TNP2: Dredging Work at Tolly's Nullah near House of Hon'ble CM

Site Inspection Report

Name of the Executing Agency- Kolkata Municipal Corporation

Reference:

Month- February 2021
Version: 20210322V2

Memo No. 115 –UDMA-24011(99)/7/2021-JS(UDMA) dated
02/02/2021 of Joint Secretary UD&MA Department, Govt. of WB.

Compulsory Site Visit of the Engineers of Executing
Agencies in connection with NGT matters.



Picture TNP3: Community Toilet adjacent to Tolly's Nullah at Tollygunge Road



Picture TNP4: Community Toilet adjacent to Thakery Road Pumping station at the Bank of Tolly's Nullah

5. Details of Alternate Treatment Technology being adopted in the Polluted River Stretches.

Bio/ Phyto remediation is not feasible as the drains are under tidal effect.

River name	Polluting drain	In-situ treatment details	MLD treated	Present Status	Incremental progress over the last visit
NA	NA	NA	NA	NA	NA

Date: 12/03/2021

Name of the Reporting Engineer: Supriyo Sengupta
Designation: Executive Engineer (Electrical)/ S&D (Acting)

Annex - B.

List of Ganga Ghats of Municipality/ Municipal Corporation already visited by SUDA Engineering Team

Hooghly District:-

- 1) Bansberia
- 2) Hooghly Chinsurha
- 3) Chandannagore Municipal Corporation
- 4) Champdani
- 5) Bhadreswar
- 6) Baidyabati
- 7) Serampore
- 8) Rishra
- 9) Konnagar
- 10) Uttarpara-Kotrang

Howrah District:-

- 1) HOWRAH Municipal Corporation
- 2) Uluberia

North 24 Pgs:-

- 1) Garulia
- 2) Bhatpara
- 3) Barrackpore
- 4) Naihati
- 5) Halisahar
- 6) Titagarh
- 7) North Barrackpore
- 8) Panihati
- 9) Khardha
- 10) Baranagar
- 11) Kamarhati

Murshidabad District:-

- 1) Berhampore
- 2) Murshidabad

 22/03/2024

NANDINI GHOSH, IAS
Joint Secretary
Department of Urban Development &
Municipal Affairs.
Government of West Bengal

Annexure B

Ghat Inspection by SUDA

- 100% cleaning operation is being done.1286 Bins have been provided in 643 Ghats.
- 2 community bins of 100 litre placed on each ghat.
- Anti-littering message (IEC) has been displayed on each and every Ghats.

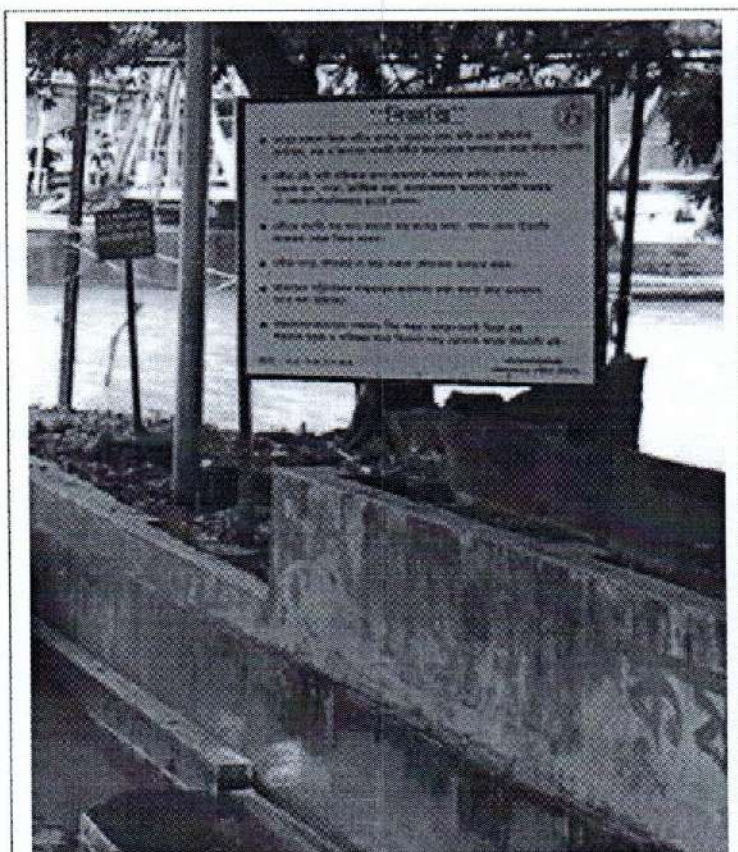


Fig.1 Anti-littering message (IEC) has been displayed at AsramGhat at Chandannagore

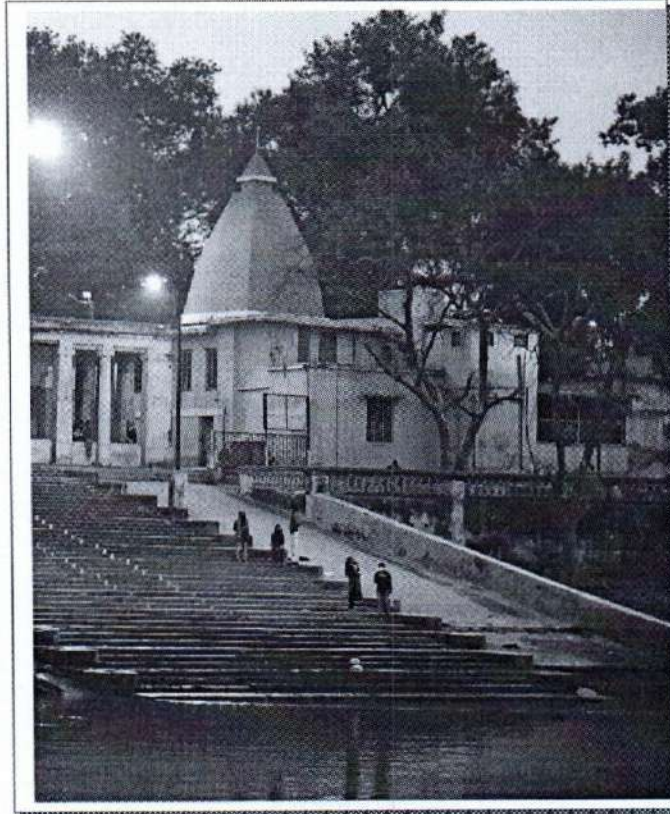


Fig.2Kali MandirGhat at Bhatpara



Fig.3 Ghat at Chinsurah



Fig.4 Ghat at Chinsurah

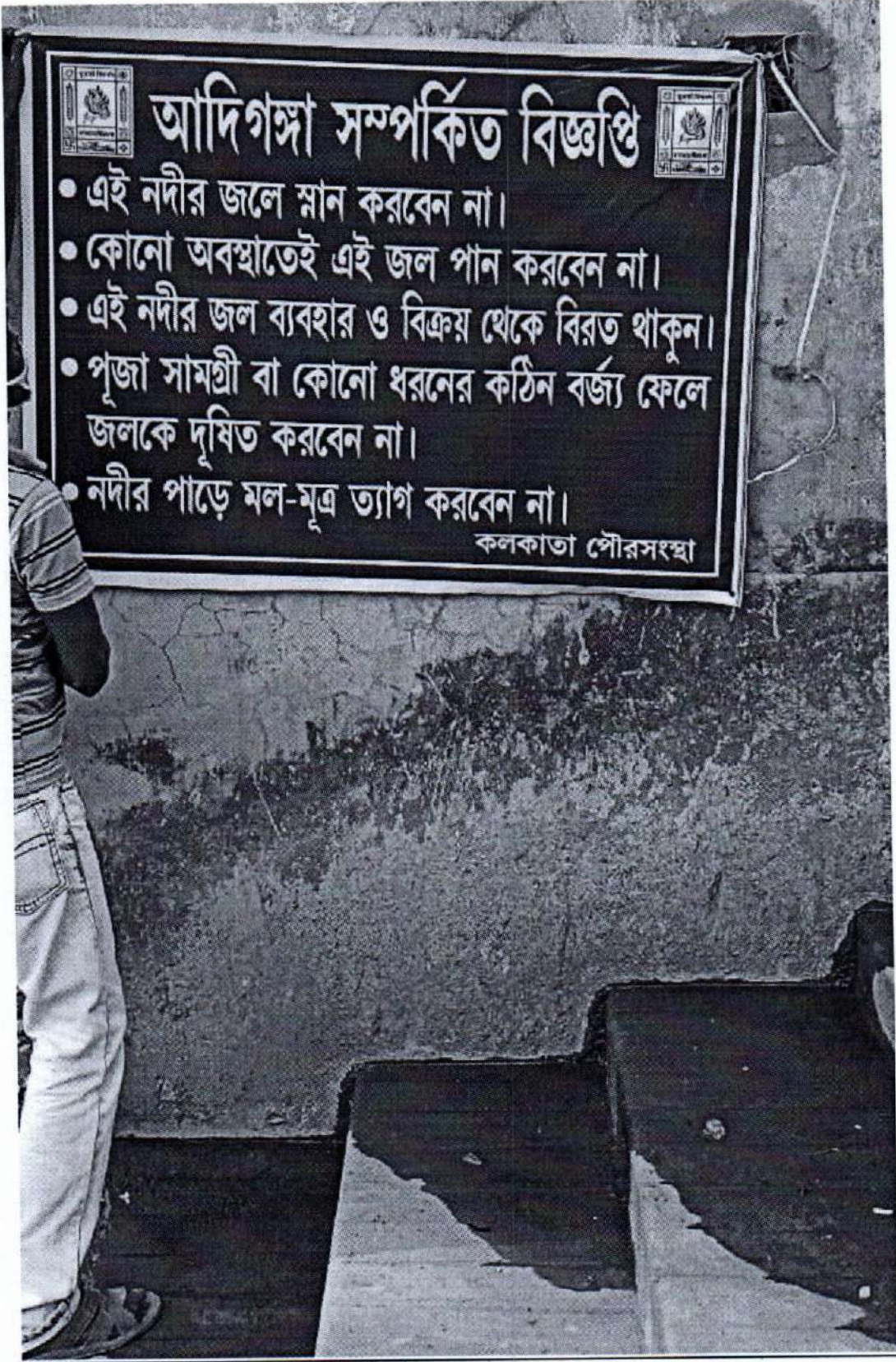
Annex-C





MUNSHIGUNGE GHAT





আদিগঙ্গা সম্পর্কিত বিজ্ঞপ্তি



- এই নদীর জলে স্নান করবেন না।
- কোনো অবস্থাতেই এই জল পান করবেন না।
- এই নদীর জল ব্যবহার ও বিক্রয় থেকে বিরত থাকুন।
- পূজা সামগ্রী বা কোনো ধরনের কঠিন বর্জ্য ফেলে জলকে দূষিত করবেন না।
- নদীর পাড়ে মল-মূত্র ত্যাগ করবেন না।

কলকাতা পৌরসংস্থা

Note on Bidyadhari River (Priority-I River)

Executing Agency- KMDA and PHED

- Preliminary Survey work completed.
- Primarily 3 (three) canals (Bhangar Kata Khal, Bagjola Canal and SWF/DWF Canal) are discharging into the river Bidyadhari on the 20 km stretch from Haroa Bridge to Malancha.
- 2 (two) nos. STPs are proposed to be constructed to treat the discharge of Bhangar Kata Khal and DPR has already been finalized by KMDA.
- Process of Identification of Land and suitable STP is under process for treating the discharge from the Bagjola Canal.
- Sewage from the SWF/DWF Canal is treated naturally at East Kolkata Wetland where sewage is treated by the natural process. Moreover a 20 MLD ETP for treating the tannery waste of Bantala Leather Complex has been commissioned recently.
- To improve the water quality of the river Bidyadhari, the entire upper stretch above Haroa Bridge has to be considered. Preliminary survey reveals that STPs need to be constructed for Barasat, Madhyamgram, New Barrackpore and Dumdum Municipalities.
- IIT, Kharagpur has been entrusted for detailed investigation, quantification of pollution, preparation of concept plan to combat the pollution and preparation of Detailed Project Report based on concept plan for implementation.