

Government of West Bengal
Department of Environment

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

No. EN/ 923 /3C-01/2019

Dated, Kolkata 07 June, 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) of West Bengal in the prescribed proforma for March, 2021 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 March, 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. Overall physical progress as on 31.03.2021 is 3% 1. Repairing & renovation of roof of MPS & Rest house is completed. 2. 300 mm dia. UPVC pipe laying complete for bypass arrangement. 3. Renovation of STP is in progress 4. Clearing compound premises of shrub within S.T.P complex, at Tribeni, Bansberia completed.	Partially Complied Likely date of completion Sept 2021.
9	KMDA	Konnagar (Uttarpara)	22.00	12.00	Partially Operational. Overall physical progress (Civil work) as on 31.03.2021 : 30%, Repairing & renovation of STP: 25%, Repairing & renovation of LS (4 nos.) & MPS (1 no) :-90% , Cleaning, Repairing & renovation of network-10%	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 31.03.2021 is: 23% Repairing & renovation of STP-40% Repairing & renovation of MPS (1nos) and LS (1 no.)-30% Cleaning, Repairing & renovation of network- 15% Repairing & renovation of Diversion structure-5% The work was disrupted during the Nationwide lock down for nearly 3 months and has just recommenced.	Partially Complied Likely date of completion Sept 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	Jiagunj Azimgunj Takia Oxidation Pond	0.69	0.47	Partially Operational as Oxidation Pond. De-sludging of the pond is complete. Civil & Electrical estimate for repairing one pump station would be submitted soon to the Department	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. Civil & Electrical estimate for repairing one pump station would be submitted soon to the Department	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-Sankarpur 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., Presently Local Municipality invited tender for the House connections but work has not been done here.	Prayer for time extension placed before NMCG
27	KMDA	Barrackpore	6.00	Trial run	Nearly 10000 house connection are required. Presently Local Municipality invited tender for the House connections nearly 250 has been done so far. completion: January 2023	Prayer for time extension placed before NMCG
28	KMDA	Halisahar	16.00	Trial run	1. No of house connection: 32686 Executed: NIL 2. No bidder participated in the 1st call of tender. 2nd Call was not mature due to insufficient number of bidder participation. 3. Expected date of completion: 2 years after issuance of work order.	Sept 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	Technical and Financial evolution has completed and waiting for approval from NMCG.	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. Overall physical progress as on 31.03.2021 is 2% 1. Repair & renovation of Primary Sedimentation Tank including total repairing of damaged parts is in progress. -0.1% 2. Clearing 18 nos. Sludge Drying bed including removal of jungle, small trees, earth, rubbish etc. including supplying and placing of Gravels, sand etc. is in	Renovation work under progress. Likely date of completion Sept 2021. Partially completed.

	KMDA	Chandannagar , Khalisani, Chinsurah- Hooghly	4.50	4.00	progress. -0.5% 3. Repairing and renovation of Oxidation ponds alone with internal drains within S.T.P premise is in progress-0.5% 4. Clearing compound premises of shrubs-0.4%	
5	KMDA	Titagarh	4.50	4.0	Partially Operational STPs. Presently undergoing renovation to make it fully functional.	Under renovation Likely date of completion Sept 2021.
6	KMDA	Titagarh	4.50	4.5	Overall Physical Progress as on 31.03.2021 is : 60% comprising Repairing & renovation of STP- 70% Repairing & renovation of MPS (1 nos) and LS (3 no.)-45% Cleaning, Repairing & renovation of network- 30% Repairing & renovation of Diversion structure-65%	Likely date of completion Sept 2021.

7	KMDA	Bandipur (Khardaha)	14	-	Non-functional STPs but under Renovation. Overall physical progress as on 31.03.2021 : 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		Tendering process. Last date of Bid submission on 19.04.2021 and date of opening on 21.04.2021.	Under Renovation. Likely date of completion Sept 2021.
9	KMDA	Garulia	7.90		Non-functional and presently undergoing renovation to make it fully functional. Overall physical progress as on 31.03.2021: 65% comprising Repairing & renovation of STP-80% Repairing & renovation of MPS (1nos) and LS (1 no.)-60% Repairing & renovation of network- 40% Repairing & renovation of Diversion structure- 70%	Under Renovation. Likely date of completion Sept 2021.

10	KMDA	Naihati	6.50		Non-functional and presently Undergoing renovation to make it fully functional. Overall physical progress as on 31.03.2021: 35% comprising Repairing & renovation of STP-30% Repairing & renovation of MPS (2nos)-40% Repairing & renovation of network- 20% Repairing & renovation of Diversion structure-50%	Under Renovation. Likely date of completion Sept 2021.
11	KMDA	Panihati	12.00	-	Non-functional and presently undergoing renovation to make it fully functional. Overall physical progress as on 31.03.2021: 22% comprising Repairing & renovation of STP-20% Repairing & renovation of MPS (1nos) and LS (3no.)-25% Repairing & renovation of network- 25%	Under Renovation. Likely date of completion Sept 2021.
12	KMDA	Serampore	18.60	-	Tendering process. Last date of Bid submission on 19.04.2021 and date of opening on 21.04.2021.	Under Renovation Likely date of completion June 2021

13	KMDA	Balli (Kona)- Kona, Chakpara(Anandana gargram Panchayet)	62.00		Overall physical progress as on 31.03.2021: As per the terms and conditions laid down in the said LOA and in the referred Agreement the effective date is declared 08.03.2021 by the NMCG for this HAM project with 15 years O&M. Process Design has been approved by the IIT Kharagpur and all the 1st Phase Engineering Design & Drawing has also been approved. The Phase-II Design & Drawing is under the purview of IIT Kharagpur and Project Engineer Royal Haskoning DHV Pvt. Ltd. The Agency M/s. Ganga STP Project Private Limited has just Started the Mobilization Work.	Under Renovation.30 months from Financial closure
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14	KMDA	Howrah-Arupara	65.00	-	Overall physical progress as on 31.03.2021: As per the terms and conditions laid down in the said LOA and in the referred Agreement the effective date is declared 08.03.2021 by the NMCG for this HAM project with 15 years O&M. Process Design has been approved by the IIT Kharagpur and all the 1st Phase Engineering Design & Drawing has also been approved. The Phase-II Design & Drawing is under the purview of IIT Kharagpur and Project Engineer Royal Haskoning DHV Pvt. Ltd. The Agency M/s. Ganga STP Project Private Limited has just Started the Mobilization Work.	Under Renovation 30 months from Financial closure
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15	KMDA	Kamarhati - Baranagar -Kamarhati, Mathkol, near Belgachia Metro Car Shed	60.00	-	Overall physical progress as on 31.03.2021: As per the terms and conditions laid down in the said LOA and in the referred Agreement the effective date is declared 08.03.2021 by the NMCG for this HAM project with 15 years O&M. Process Design has been approved by the IIT Kharagpur and all the 1st Phase Engineering Design & Drawing has also been approved. The Phase-II Design & Drawing is under the purview of IIT Kharagpur and Project Engineer Royal Haskoning DHV Pvt. Ltd. The Agency M/s. Ganga STP Project Private Limited has just Started the Mobilization Work.	Under Renovation 30 months from Financial closure
16	PHED	Berhampore Murshidabad	3.7	-	Non-Operational Discharge to nearby irrigation canal which is connected with Bhandardaha Bill (around 10km away).	Not Applicable
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: 17%. Piling work for SBR, CCT & Air Blower under progress and construction of chlorination room & boundary wall 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. 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
2.	KMC	M.G. Road	40	Physical progress: 13.5% Land development, chlorination building & boundary wall under progress		March 2022
3.	KMDA	Budge-Budge	9.33	Overall physical progress achieved as on 31.03.2021 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 did not mature due to insufficient number of bidders. Expected date of completion: 2 years after issuance of work order.	Prayer for extension of time placed before NMCG.

4.	KMDA	Kanchrapara	18.00	a. Overall physical progress achieved as on 31.03.2021 is 40%. b. Construction of 18 MLD capacity of STP -43%.	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%	Completed.	The concerned person of the Agency died however the project is progressing & is expected to be completed by April 2021
6.	PHED	Tarapith	4.25	58%	Provision of only Institutional Connection (90%)	July 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	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	Approved Vetter Design & Drawing of 5 MLD STP and work started. Already 4 nos of pile driven. Vetter 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	Approved Vetter Design & Drawing of 8 MLD STP submitted and work started. Already 48 nos. of Piles driven. Sewerage Network Vetter 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 Technical Bid	30months for from date of contract agreement.
2.	KMC	Sukhapukur	5.06	Evaluation Report has been sent to NMCG on 24/03/2021 for perusal and approval thereto towards opening of Financial	
3.	KMC	Birji Road	5.7	Bid.	
4.	KMC	L.S.10	16	Proposed under Municipal Waste Water Project Budgetary estimate is of about Rs. 1551.37 Crore. The project completion	52 months from the date of issuance of work order.
5.	KMC	Dhankheti Nikashi	25	time was considered as 52 months from the issuance of Work Order. Draft DPR submitted to NMCG on	
6.	KMC	BhangaKhal, Garden Reach	35	31/03/2019 for approval & extension of time (EOT) NMCG approved EOT on 08/09/2020 up to 22/05/2021. 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. Contract Agreement signed, but NTP could not be issued because of Model Electoral Code of Conduct for General Election to the Legislative Assembly of WB	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	The proposal has been processed to the State Finance Authority, GoWB from the Departmental Tender Committee. LOA will be issued after clearance from State Finance.	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 19.04.2021. There is a change of site to Taldanga and 60 trees to be uprooted. KMDA is in touch with Forest Department regarding this. KMDA obtained approval from NMCG for the change of site.	18 months 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	Dhuliyān	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 decided to take up in-situ treatment in 02 of the 11 Nullahs of Damodar (Tamla and Nunia Nullah). Tender will be floated soon for the work - aeration, chlorination and de-siltation.

OCEMS

Department of UD & MA has constituted a Committee vide order No. 574-UD-KMDA-33099-1-2021-EM dated 23.02.2021 under the Chairmanship of CEO KMDA for speedy and smooth implementation of this work. KMDA has been designated as the Nodal Agency for this purpose. It will invite an evaluate Tender on behalf of KMC and MED. KMDA has invited Tenders and two Bidders qualified the tender. Technical Bid evaluation is going on. Financial Bid will be opened soon.

IV. Details of Industrial Pollution:

No. of industries in the State (Red = 3927, Orange = 12332)	=16259 (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 shaving 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			
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			
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			
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			
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			
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 WasteManagement:

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 Waste generation: 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 22 drains which pose a challenge in terms of technical Feasibility. Department of UD & MA has submitted a Status Report as on 31st March 2021 in respect of these 22 numbers of drains to CPCB. **Annexure-IV**

•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 :-

Water Quality of Polluted River Stretches of 17 rivers in West Bengal during March 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)	14.84	0.4	70000	220	7.26
	Vidyadhari	Malancha (Downstream)	13.75	1.3	13000	45	7.38
II	Mahananda	Siliguri (Upstream)	2.70	6.4	8000	94	6.92
	Mahananda	Ramghat (Downstream)	22.00	4.8	90000	280	6.9
III	Ganga	Tribeni	3.20	7.4	8400	130	7.96
	Ganga	Palta	1.90	6.5	79000	460	7.94
	Ganga	PaltaShitalatala	3.00	6.0	130000	1300	7.95
	Ganga	Serampore	1.80	7.2	79000	490	8.21
	Ganga	Dakshineswar	3.25	5.5	79000	78	7.83
	Ganga	Garden Reach	3.00	5.6	23000	78	7.30
	Ganga	Howrah-Shibpur	3.05	5.6	13000	68	7.72
	Ganga	Uluberia	3.40	5.8	4500	23	7.44
	Ganga	Durgachak near Pathikhali	0.80	5.7	8400	130	7.47
	Ganga	Diamond Harbour	2.85	5.4	4500	78	7.40
	Churni	Downstream of Ranaghat Town	3.50	3.2	24000	5400	8.02
	Churni	Majhdia	20.83	0.4	33000	350	7.96
III	Dwarka	Upstream of Tarapith at SadhakBamdebGhat	4.00	6.8	35000	79	7.29

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

Prior ity	River	Stations	BOD (mg/l)	DO (mg/l)	Fecal Coliform (MPN/10 0ml)	Fecal Streptoc occi (MPN/10 0ml)	pH
	Dwarka	Downstream of Tarapith, Satighat	4.60	6.5	43000	94	6.94
IV	Damodar	Dishergarh Village	3.15	8.4	4000	11	7.53
	Damodar	Downstream of IISCO	2.55	8.2	3800	14	7.41
	Damodar	Narainpur	2.25	8.1	2700	13	6.91
	Damodar	Near Mujher Mana Village	3.55	7.2	3300	31	7.01
	Damodar	Andal Upstream	2.05	8.5	2100	13	7.20
	Damodar	Andal Downstream	2.75	8.1	2700	25	7.14
	Damodar	Asansol Upstream	1.85	8.3	2700	17	7.45
	Damodar	Durgapur Upstream	3.85	8.2	2500	22	7.26
	Damodar	Raniganj Downstream	2.65	8.4	3200	31	7.35
	Damodar	Water Intake Point for Burdwan Town	2.35	8.2	2300	15	8.07
IV	Kansi	Downstream at Midnapore	1.70	8.6	3300	120	8.25
IV	Jalangi	Downstream of Krishnanagar	4.90	5.1	49000	940	8.14
IV	Mathabhanga	Gobindapur	15.25	0.4	350000	5400	7.99
V	Barakar	Asansol	2.45	8.3	3900	27	7.31
V	Silabati	Ghatal (Downstream)	1.95	5.7	4600	140	7.71
V	Rupnarayan	Geonkhali	1.10	5.6	1700	78	7.58
	Rupnarayan	Kolaghat (Downstream)	1.60	6.4	8400	110	7.89
V	Dwarkeswar	Bankura Town	3.25	8.1	2200	21	7.19
V	Mayurakshi	Suri Town	1.55	8.0	2200	14	7.23
V	Kaljani	Downstream of Alipurduar	1.40	7.5	2200	22	7.10
V	Karola	Downstream of Jalpaiguri	1.20	7.5	2700	17	6.91
V	Teesta	At Jalpesh	2.20	7.1	1700	14	7.62
	Teesta	At Sevoke	0.80	7.2	2600	26	7.10

XIV. Ground water regulation:

River	Ground water 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 (Birbhumdist.) Mathabhangariverstretch: <i>Semi-Critical-</i> Deganga (North 24 Parganas dist.)
Dwarka	Periodic groundwater sampling for its Physio-chemical tests is done twice a year (April & Nov).
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'97guidelines.
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 Barakarriver. 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-mosoon'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.
Mayurakshi	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:
Rupnarayan	<i>Semi-Critical</i>- Suti-I (Murshidabad dist.), Labhpur (Birbhum dist.)
Jalangi	□ 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).
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 Karolariver. Groundwater sampling for its Physio-chemical tests is done twice a year (April & Nov).
Dwarekeswar	
Kaljani	
Karola	
Mahananda	Groundwater regulation: 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
Teesta	

	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).
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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 Thakurer Kamat	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), Sahid Matangini (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 98Ha 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 700Ha 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. (Chandrakona II : 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.
5. **The Department of UD & MA has constituted an Internal Committee for Tolly Nullah to monitor different pollution abatement work going on there. The first meeting of the Committee was held on 31st March 2021 under the Chairmanship of Principal Secretary UD &MA. The meeting was attended by all the stakeholder Departments-KMC, KMDA Bridge wing, Metro Rail, KPT, Environment Department, WBPCB, Irrigation Department, L&LR Department, and the Legal Cell of all concerned Departments. Many important time bound decisions were taken and communicated to the concerned Departments. (MOM of the Meeting Annex: MOM Tolly Nullah)**

Details of important Annexures:

Annexure-II: Report from P&RD

Annexure-III: Note on EKW

Annexure-IV: Report on 22 Drains sent to PCB

Annexure-V: Report on Monitoring and Review.

Annexure-A: Site Inspection Report.

**Annexure-B: Progress of the construction of STP at
Newtown- Rajarhat Action Area -IID executed
by PHED.**

Annexure-C: I&D for 06 MLD STP Barrackpore.

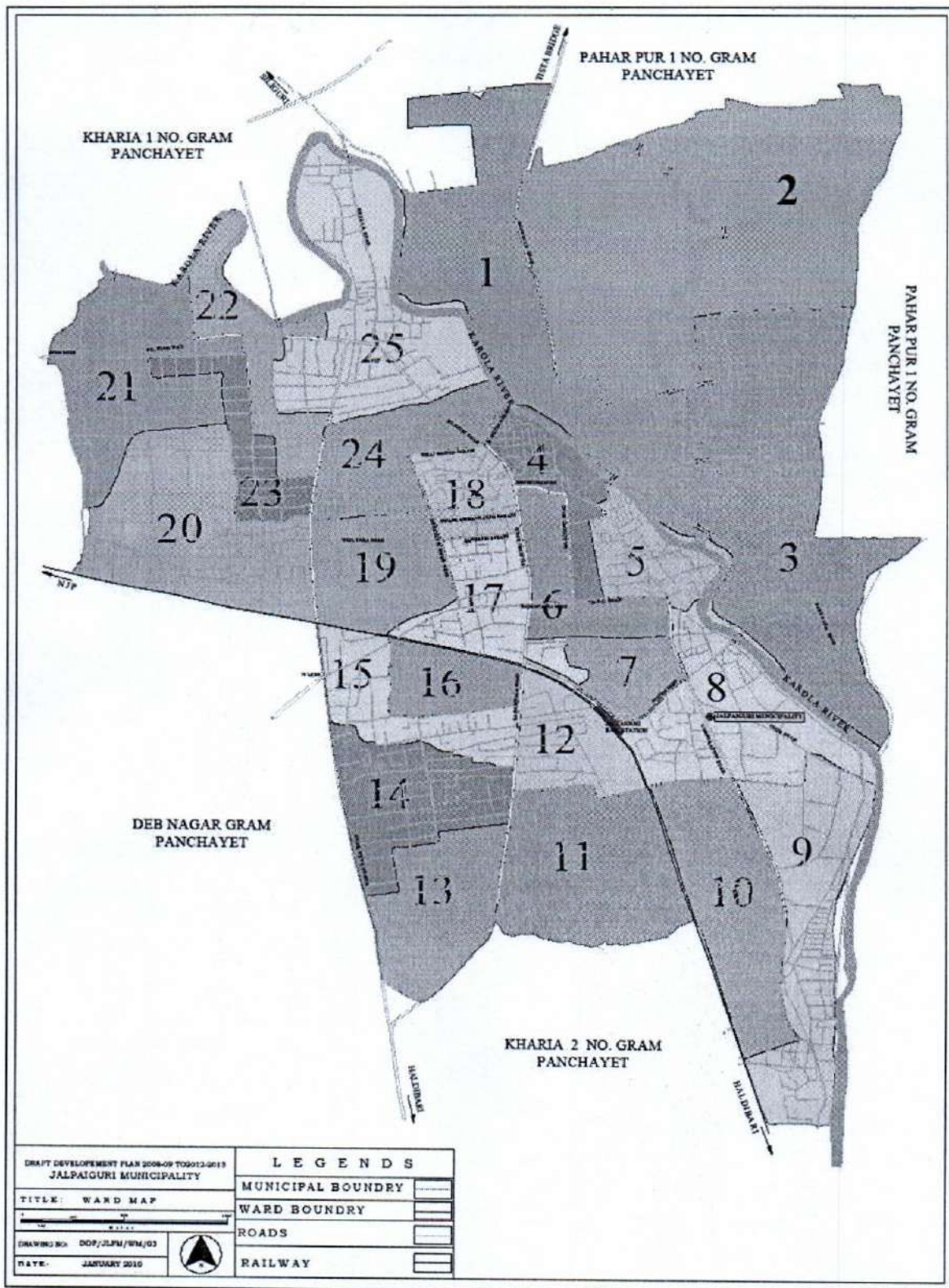
Annexure-D: Note on Vidyadhari River

Annexure: MOM Tolly Nullah

Annexure: MOD

Annexure:MOM 1 & MOM 2

Annexure -I Report on Karola River .P



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

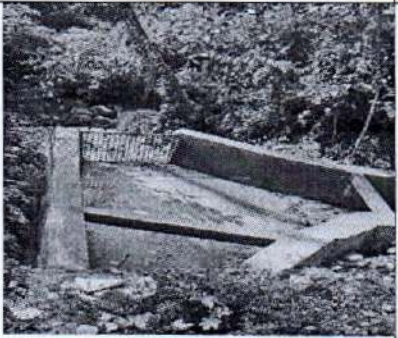
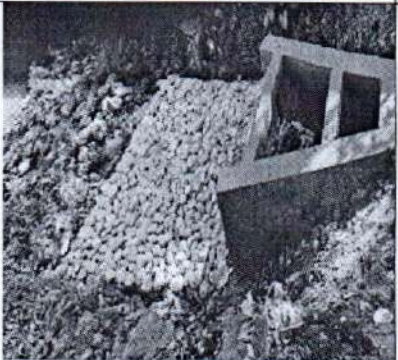
Primary Treatment of sewerage for the river KAROLA within Jalpaiguri Town in respect of HONB'LE NGT directives.

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 47 nos outfall point of drain to KAROLA RIVER

SL. NO.	LOCATION	NO. OF DRAINS/OUTFALL	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 Mahamaya 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: 872 –

Date: 10.02.2021

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

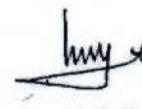
To: The Chief Executive Officer
Kolkata Metropolitan Development Authority

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, Beniapukur, 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.

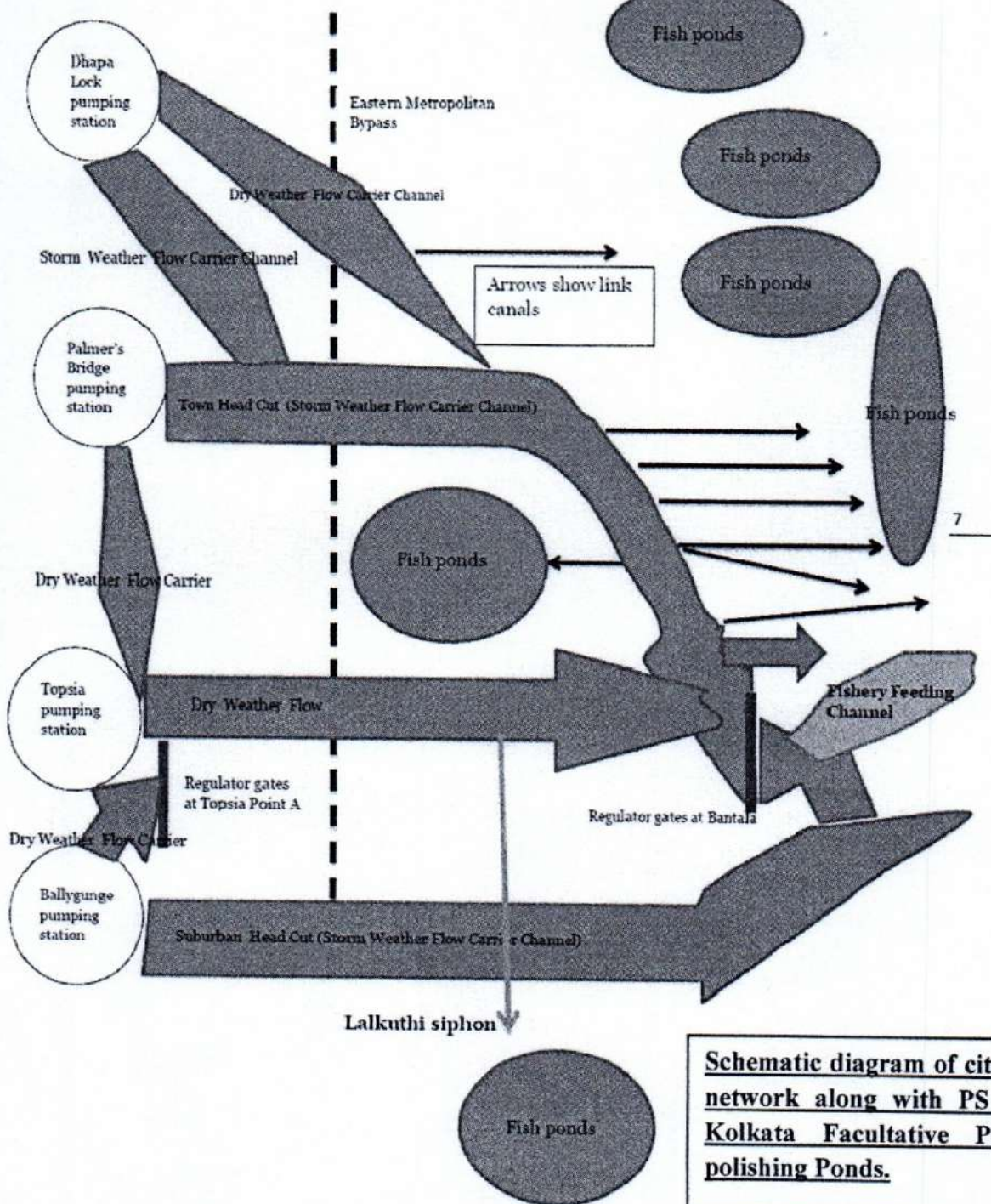
Average discharge from these pumping stations during lean period measured are as follows:

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

9/2/24
 EE-1/540/57
 09/02/24
 Dy. CEO / Actg.

09/02/24
 Director General
 Sewerage & Drainage

KOLKATA



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.

owing.

Jms
9/2/21
8-6(Dx7) / Contd.
RE(10)/SRD(5).

NAU, 09/02/21 JSPN
CH-02.WH
DXR(E)/Ackg

09/02/24

Director General
Commerce & Business

NANDINI GHOSH, IAS
Joint Secretary



DEPARTMENT OF URBAN
DEVELOPMENT & MUNICIPAL
AFFAIRS
GOVERNMENT OF WEST BENGAL
"Nagarayan" DF-8, Sector - 1,
Salt Lake, Kolkata - 700 064
Ph: (033) 2321-1121
E-mail : nandinighosh.jsudma@gmail.com

Memo No. 51-JS (NG)

Date: 01.04.2021.

To,
Dr. A.K.Vidarthi,
Additional Director & Divisional Head, WQM-II,
Central Pollution control Board,
Ministry of Environment, Forest & Climate Change, GOI,
Parivesh Bhawan, East Arjun Nagar,
New Delhi - 110032.

**Subject: Updated Report with respect to the work done in 22 numbers of Polluted
Drains discharging directly into Ganga River, West Bengal.**

Sir,

With reference to the above subject, I am directed to attach herewith an Updated Report (Drain wise) for your kind perusal along with photographs of inspection and the work done at the sites.

Progress with respect to installation of OCEMS.

Your kind attention is drawn to our earlier Memo No. 35-JS(NG) dated 10.03.2021. We further state that, the Technical and Financial Bid opening is likely to be completed by 31st May 2021 after the Election protocol is over.

Joint visit at East Kolkata Wetland (EKW).

With reference to the above subject, your kind attention is drawn to the fact that a Joint Visit has been proposed at EKW by the WBPCB with CPCB, SPMG, UD & MA Department and Environment Department, GoWB. NMCG has also expressed its willingness to visit EKW along with this Team. We therefore, request you to finalize the date of the visit and let us know accordingly.

This is for your kind perusal.

Enclo: As stated.

Yours faithfully,

emo No. 51/1(11)-JS (NG)

Date: 01.04.2021.

Copy forwarded for kind information to:

- The Additional Chief Secretary, Department of Environment, Pranisampad Bhavan, 5th Floor, LB-
Sector-III, Salt Lake, Kolkata-700106.
- Principal Secretary, Department of UD & MA.
- Member Secretary, West Bengal State Pollution Control Board and Environment Department,
Government of West Bengal, Paribesh Bhavan, 10A, LA Block, Sector III, Bidhannagar, Kolkata, West
Bengal 700106.P.S to Principal Secretary, UD & MA Department.
- The Chief Executive Officer, Kolkata Metropolitan Development Authority & The Programme Director
SPMG, CJ-164, 2nd Avenue, DJ Block, Sector II, Bidhannagar, Kolkata, West Bengal 700091
- Additional Secretary, Environment Department, Department of Environment, Pranisampad Bhavan, 5th
Floor, LB-2, Sector-III, Salt Lake, Kolkata-700106.
- Shri M.K.Biswas, Regional Director, CPCB, Kasba New Market, Sector E, East Kolkata Twp, Kolkata
West Bengal 700107
- Shri D.P.Mathuria, NMCG, 1st floor, Major Dhyan Chand National Stadium, 110002, India Gate, New
Delhi, Delhi 110001.
- Shri T.K.Gupta, Chief Technical Advisor, West Bengal State Pollution Control Board and Environment
Department, Government of West Bengal, Paribesh Bhavan, 10A, LA Block, Sector III, Bidhannagar,
Kolkata, West Bengal 700106.P.S to Principal Secretary, UD & MA Department.
- Chief Engineer, GAP Sector, KMDA, CJ-164, 2nd Avenue, DJ Block, Sector II, Bidhannagar, Kolkata
West Bengal 700091
- Chief Engineer, KMDA, S&SWM, CJ-164, 2nd Avenue, DJ Block, Sector II, Bidhannagar, Kolkata, West
Bengal 700091
- .PS to Principal Secretary, Department of UD & MA.

Joint Secretary

Updated Report on 22 Number of Polluted Drains Discharging into River Ganga

SL. No.	Name of the drain	Progress Made	Action to be taken
1.	Old Muni Khali	Responsibility to intercept and divert this Khal lies with the GAP sector. Action plan for the same has been submitted.	Old Muni Khali Khal has been considered under Maheshtala HAM project. GAP sector to rigorously supervise the work.
2.	Bagher Khal	Responsibility to intercept and divert this Khal lies with the GAP sector. Action plan for the same has been submitted.	Bagher Khal planned to be intercepted and diverted within Kanchrapara STP project. GAP sector to rigorously supervise the work.
3.	ITC Tribeni Khal	Action plan of this drain has been submitted by WBPCB	M/s ITC Tribeni Tissue factory has been directed to install STP for their housing quarters. Monitoring of the same to be done on regular basis.
4.	BTPS Khal	Action plan of this drain has been submitted by WBPCB.	For BTPS Khal, since the drain carries fly ash flow effluent, therefore to trace the source of domestic effluent a joint inspection to be done next week by SPMG, S&SWM and WBPCB.
5.	Sarenga Khal	Action plan of this drain has been submitted by WBPCB	For Sarenga Khal, where 9 no. of effluent generating units are discharging effluents, WBPCB has already taken regulatory action. It has to be followed up.
6.	Bhatpara Drain,	Group of engineers along with agency have visited all these drains and finalized feasibility study. Photographs of the Site Inspections are enclosed in separate attachments with this Report.	a) S&SWM to submit feasibility reports and all necessary data required by GAP sector immediately. b) GAP sector to conduct hydraulic and route survey for which an agency will be engaged for preparation of DPR. Tender for the same to be invited by second week of April. c) Exemption to be sought for proceeding with tender. UD&MA will be approached for assistance as MCC is in force. All land related issues that can come up while executing the work should be communicated to the Land cell prior. The JS (Land) will organize meeting with GAP & S&SWM to finalize land requirement and further to be followed up.
7.	Pratapnagar Rajbari		
8.	Bhatpara Open		
9.	Champdani ferry ghat Drain		
10.	Majerchar drain		
11.	Dhopa ghat drain		
12.	Chandannagar drain		
13.	Akra food ghat		
14.	N.C Pal Khal		
15.	Singhimore Khal		
16.	Baidyabati Khal		
17.	Bally Khal		
18.	Bagh Khal		
19.	Najerguange Khal		
20.	Swarsati Khal		
21.	Khardah Khal		
22.	DVC Canal		

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



Baidyabati Khal



Baidyabati STP



Baidyabati STP



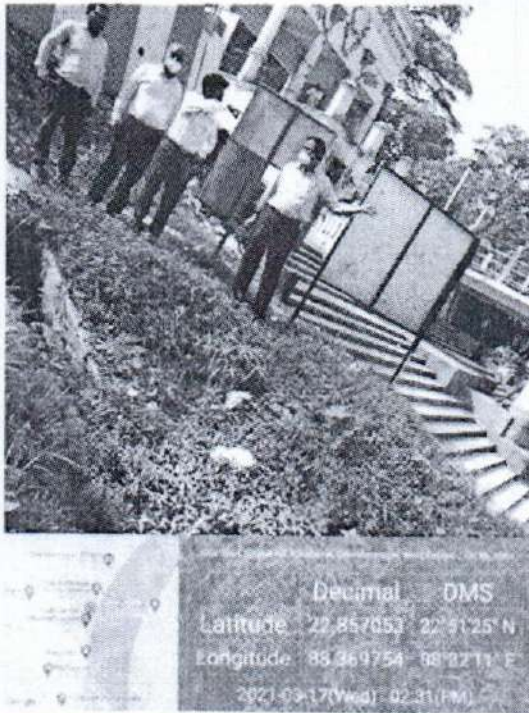
Champdani Ferry Ghat drain



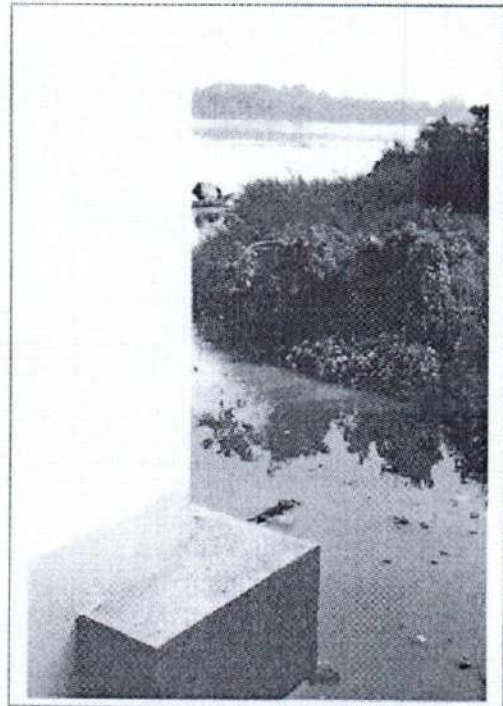
DVC Canal Champdani



Triveni STP Bansberia



BaidyaBati STP



Bagh Khal



Champdani Ferry Ghat Drain



Dhopa Ghat Drain

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. Many important times bound decisions were taken and communicated to the Executing Agencies. The Department is closely monitoring the progress **(MOM enclosed in Annexure MOM 1 and MOM 2)**

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 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 with a minimum License fee of Rs1/-per square mtr. And the work is going to start immediately after signing the agreement and deposit of security money. (Annexure MOD).

❖ **I&D for 18 MLD STP Barrackpore, drain trap location- Barasat Road and Wireless More has been successfully completed. (Annexure-C, containing photos)**

❖ **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 Namami Gange 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.
- 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. NMCG has given approval for change of site.

❖ **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.

❖ **Constitution of internal Tolly Committee for periodic review and monitoring the progress of NGT work in Tolly Nullah:**

The Department of UD & MA has constituted an Internal Committee for Tolly Nullah for the above purpose. The first meeting of the Committee was held on 31st March 2021 under the Chairmanship of Principal Secretary UD &MA. The meeting was attended by all the stakeholder Departments-KMC, KMDA Bridge wing, Metro Rail, KPT, Environment Department, WBPCB, Irrigation Department, L&LR Department, and the Legal Cell of all concerned Departments. Many important time bound decisions were taken and

communicated to the concerned Departments. (MOM of the Meeting, **Annexure: MOM Tolly Nullah**)

❖ **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 has submitted the Assessment Report along with DPR showing the revised cost at Rs. 250 crores. Proposal for granting permission for switching over of the Project from HAM model to DBOT model along with the DPR has already been sent to NMCG on 23.04.2021 for their consideration.

❖ **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)

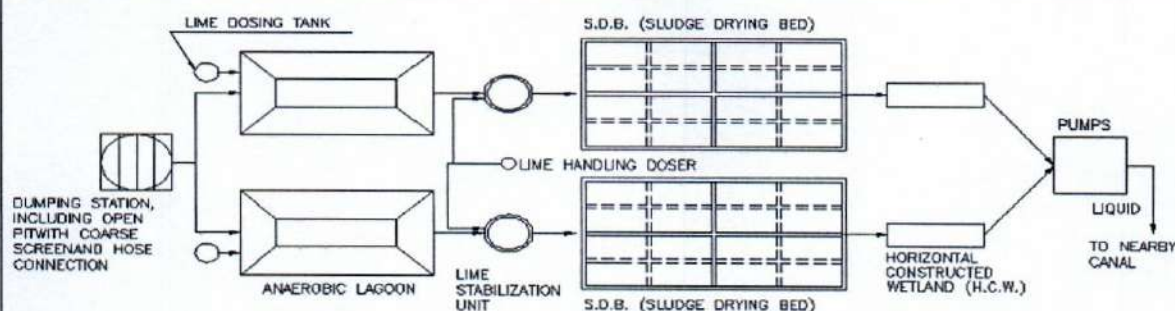
Components: -

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 26th March 2021 under the Chairmanship of Additional Chief Secretary, Environment Department, GoWB.

❖ **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. A Report in this regard was sent to CPCB on 1st April 2021 which is already annexed with this Report.

❖ **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.

❖ **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 invited 2nd call and two bidders qualified. Technical bid evaluation is going on.

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 soon.

Site Inspection Report

Name of the Executing Agency- Kolkata Municipal Corporation

Reference:

Month- March 2021
Version: 20210521V2Memo 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 Opened on: 25/03/2021. Technical Evaluation in Progress.	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 relay 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- Bansdrani 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

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Compulsory Site Visit of the Engineers of Executing
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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 (KEIIP)	45	March 2022	17% Piling work for SBR & CCT under progress	1%
2	At Bank Plot, M.G Road*	KMC (KEIIP)	40	March 2022	14% Piling work for SBR, CCT & Air Blower under progress and construction of chlorination room & boundary wall under progress	0.5%
3	At Rajpur-Sonarpur, Rania*	KMC (KEIIP)	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. Contract Agreement signed, but NTP could not be issued because of Model Electoral Code of Conduct for General Election to the Legislative Assembly of WB	Contract Agreement signed
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 Report has been sent to NMCG on 24/03/2021 for perusal and approval thereto towards opening of Financial Bid.	TBER Submission to NMCG
5	Near Golf Garden, Sukha pukur		5.06			
6	Near Kavi Nazrul Metro Station, Birji Road		5.7			

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Sl. No	Location	ULB jurisdiction	Proposed capacity in MLD	Timeline for completion	Present Status	Incremental progress over the last visit
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 22/05/2021. 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.	NIL
8	STP Near Surinaam Ghat, Dhankheti Nikashi		25			NIL
9	STP Near Bhanga Khal, Gardenreach area		35			NIL
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	NIL

*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 535 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).

Incremental progress over the last visit: 25Cr. Disbursed

Site Inspection Report

Name of the Executing Agency- Kolkata Municipal Corporation

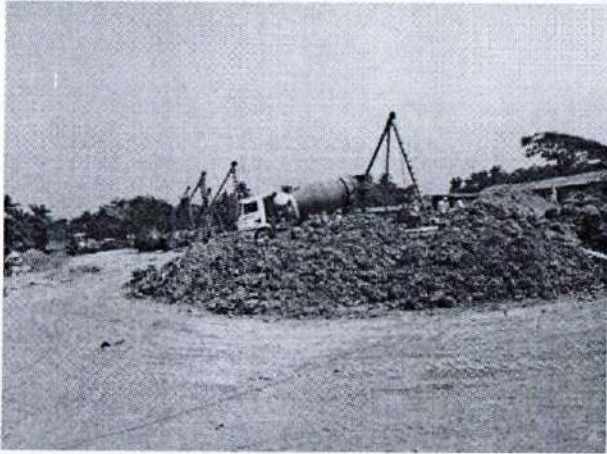
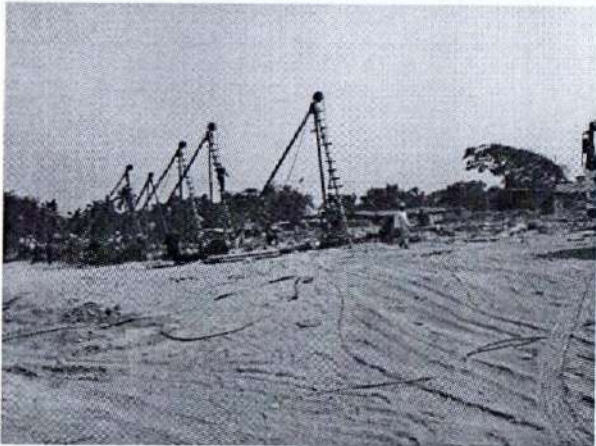
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Compulsory Site Visit of the Engineers of Executing
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3.1 Photograph of Under Construction STP

	
Piling work in progress at STP Near WBSETCL, Joka	Excavation work for pile breaking upto cut off level at STP Near WBSETCL, Joka
	
Piling work at STP, Bank Plot, M.G Road	Piling work at STP, Bank Plot, M.G Road

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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

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4.1 Photograph of Outfalls South



Picture OF1: Dhankheti Khal



Picture OF2: Dhankheti Khal

Site Inspection Report

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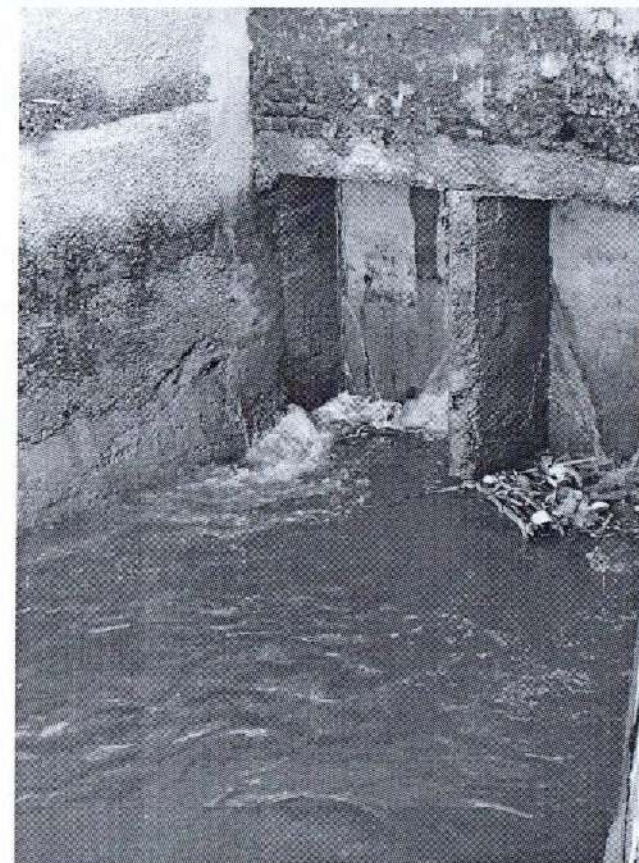
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Compulsory Site Visit of the Engineers of Executing
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4.2 Photograph of Outfalls North



Picture OF3: Nimtala Ghat PenstockGate.



**Picture OF4: Cossipore Ghat (Dilarjung Ghat)
PenstockGate.**

Site Inspection Report

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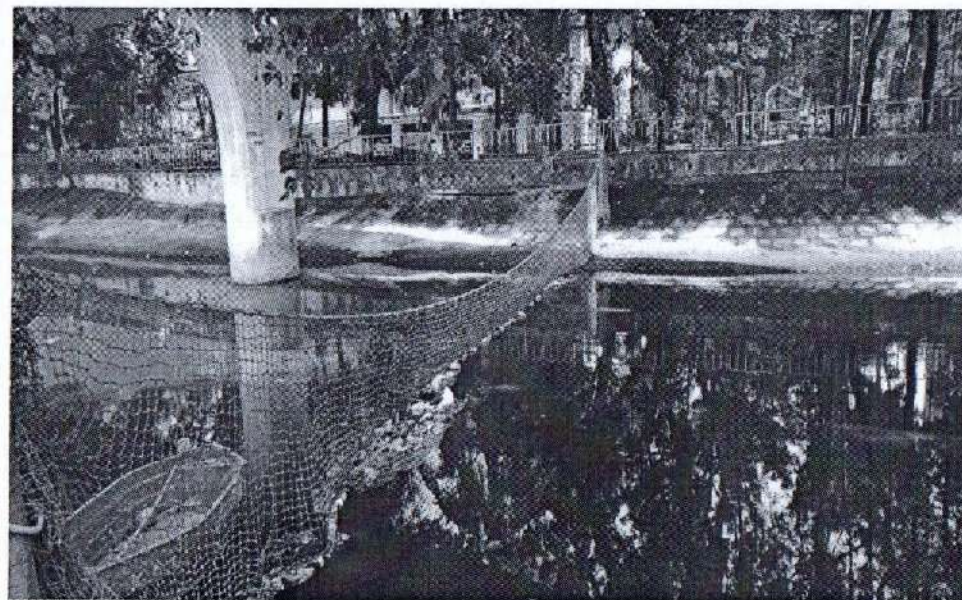
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4.3 Photograph of TNP



Picture TNP1: Garbage Arrester Net



Picture TNP2: Garbage Arrester Net near Netaji Metro Station

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Agencies in connection with NGT matters.



Picture TNP3: OWC Ward no. 115, near Karunamoyee Temple, Kudghat



Picture TNP4: OWC Ward no. 114, Kudghat Bazar

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

Site Inspection Report

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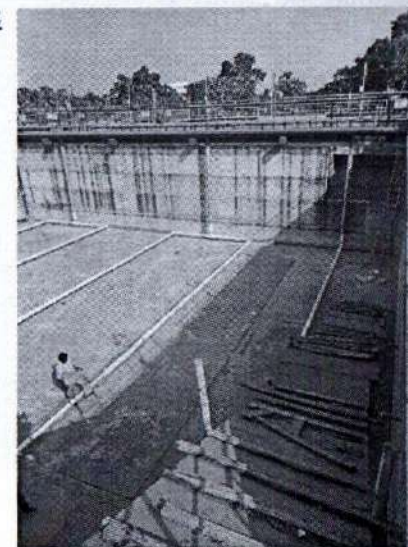
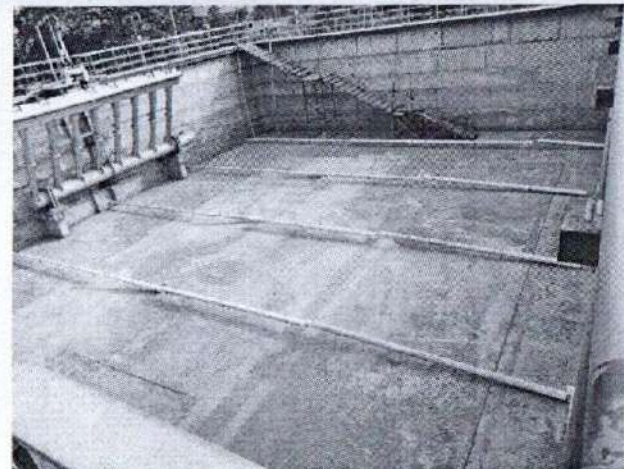
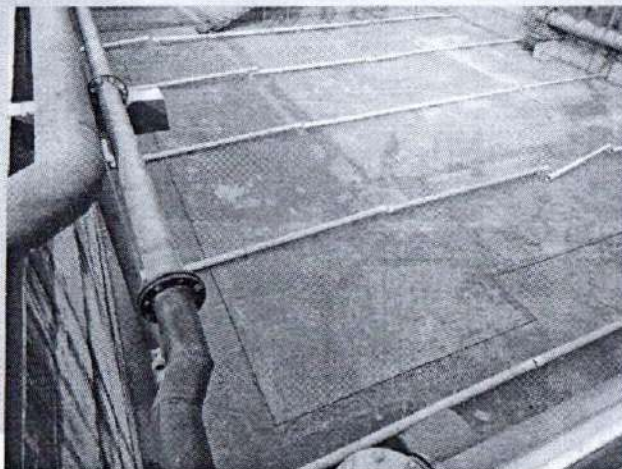
Memo No. 115 –UDMA-24011(99)/7/2021-JS(UDMA) dated
02/02/2021 of Joint Secretary UD&MA Department, Govt. of WB.

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

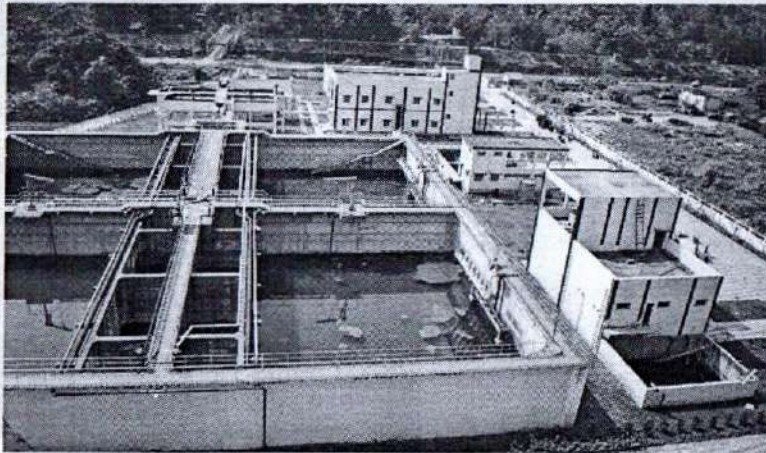
Date of Reporting 06/04/2021

Sl. No	Section of Site Inspection Report	Name of the Concerned Officer	Designation of Concerned Officer	Contact no
1	Section-1, Sl. no-1, Bangur	Soumen Mukherjee	E.E (E)/ MDPS	9836305380
2	Section-1, Sl. no-2, Garden Reach	Sanjoy Kumar Halder	EE (E) Garden Reach Behala Unit	9433203667
3	Section-1, Sl. no-3, Keorapukur	Supriyo Sengupta	E.E (E)/ Kudghat	9830311559
4	Section-1, Sl. no-4 & 5, Baghajatin, Hatisur	Biswajit Bala	E.E (M)/ DLPS	9433923082
5	Section-3, Sl. No- 1 & 2 Under Construction STP Section 3.1 Photograph of Under Construction STP	Chandranath Bera	NGT Reporting Officer delegated by KEIIP	9836043244
6	Section-3, Sl. No- 3, Rajpur-Sonarpur, Rania	Chandranath Bera	NGT Reporting Officer delegated by KEIIP	9836043244
7	Section-3, Sl. No- 4, 5, 6 Tolly's Nullah Rehabilitation Project. Section-4, Sl. No- 4 Tolly's Nullah Section-4.3, Photograph of TNP	Frazul Haque	A.E (C) TNP	9062922766
8	Section-3, Sl. No- 7, 8, 9 Municipal Waste Water Project.	Sanjay Kumar Mandal	Dy.C.E (C) Drainage Central	9830345868
9	Section-4, Sl. No- 1, Dhankheti Khal Section-4.1, Photograph of Outfalls South	Sanjib Kumar Bose	E.E (C) Drainage South	9432072716
10	Section-4, Sl. No- 2, 3, 5. Nimtala Burning Ghat Drain, Cossipore Ghat Drain, Chitpur Ghat Khal/ Circular Canal	Anirban Mukherjee	E.E (C) Drainage North	9830019288
11	Section-4.2 Photograph of Outfalls North	Anirban Mukherjee	E.E (C) Drainage North	9830019288

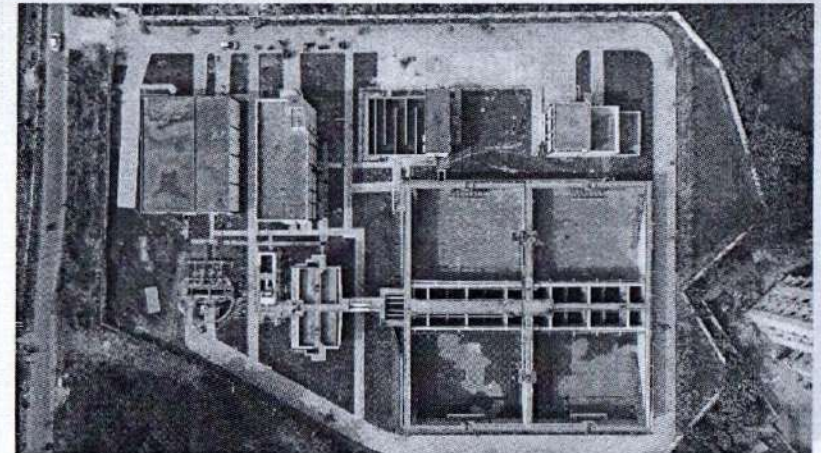
Annexure-B: Progress of construction of STP at New Town- Rajarhat Action Area-III DExecuted under PHE



PRESENTCONDITIONOFDEFUSERBASIN



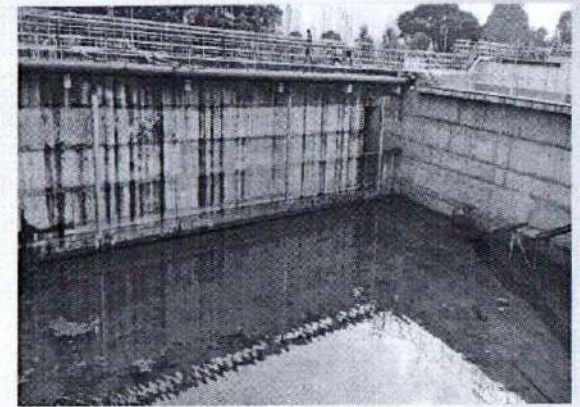
SIDEVIEWOFS.T.P.



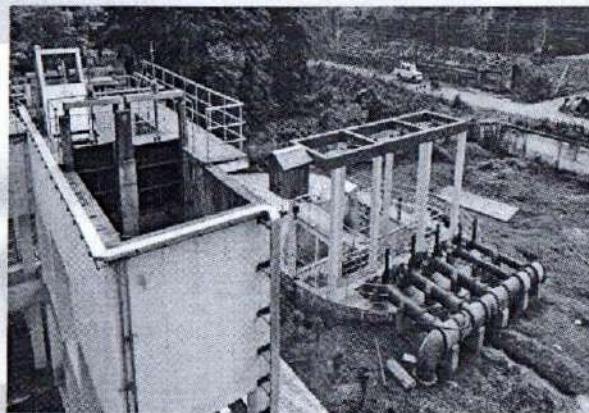
TOPVIEWOFS.T.P.



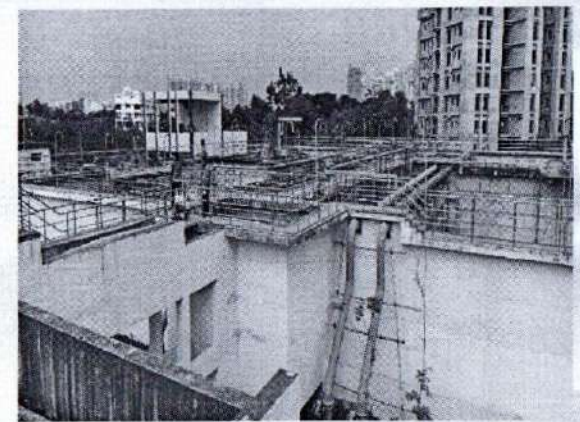
STILLINGCHAMBER



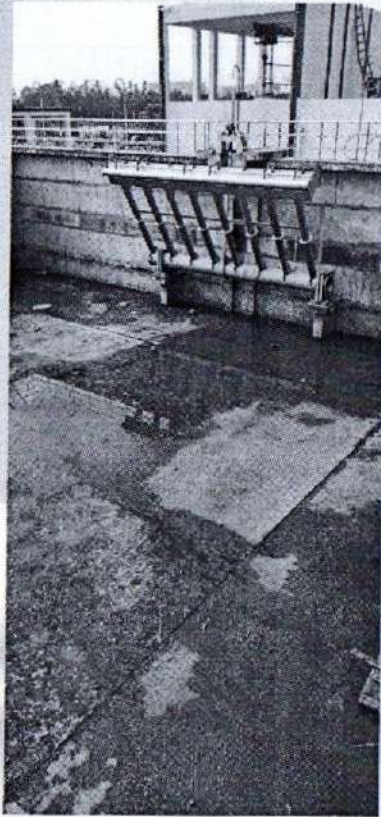
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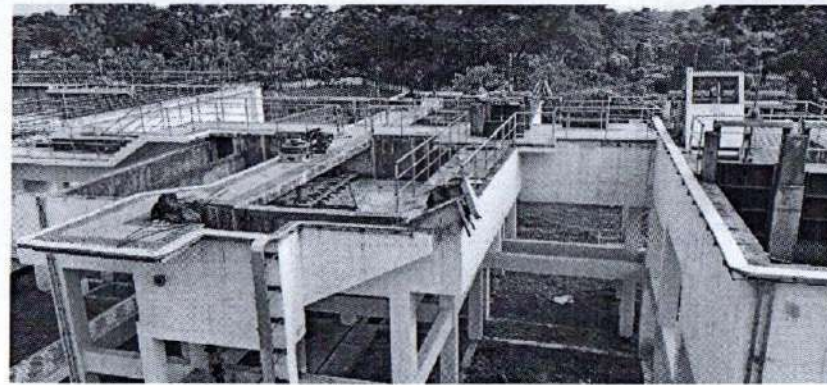
RAWSEWAGESUMP



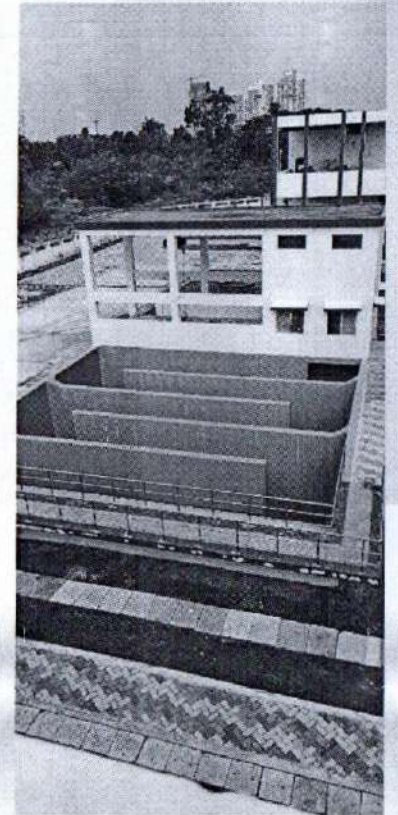
SPLITERBOX



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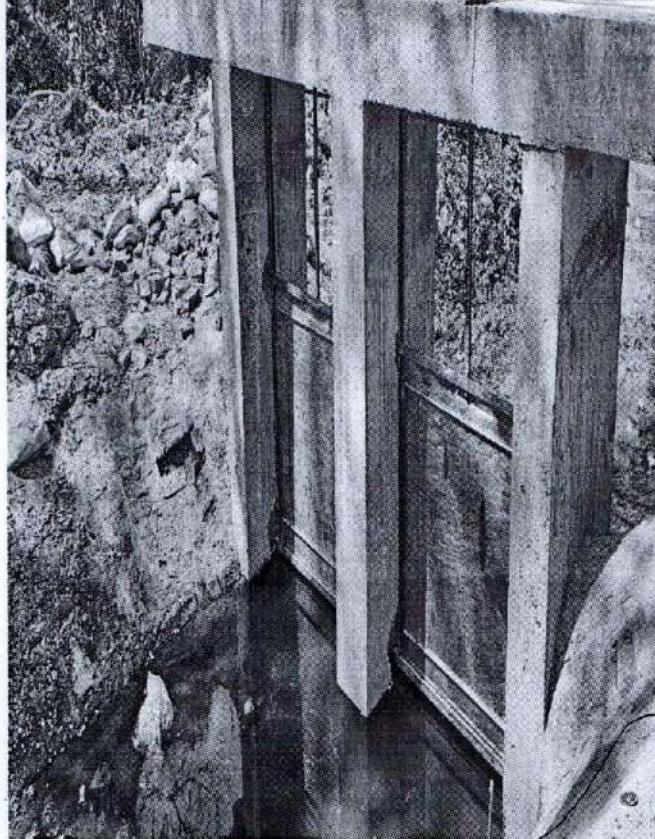
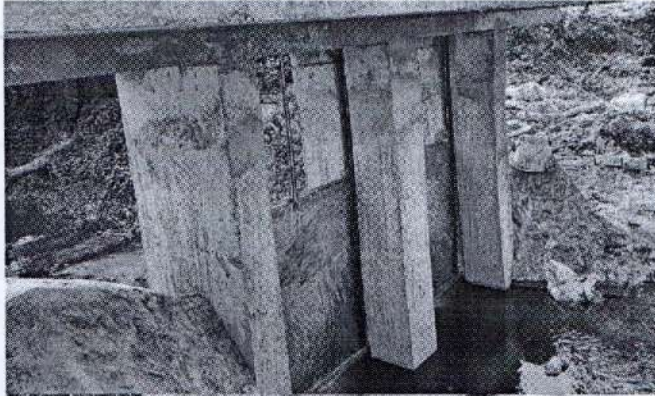


GRITCHAMBER



CHLORINATION SYSTEM

Annexure- C- I& D for 06 MLD Barrackpore STP



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 Burning Ghat.
- 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 to Malancha Burning Ghat has to be considered. Preliminary survey reveals that STPs need to be constructed for Barasat, Madhyamgram, New Barrackpore, Rajarhat-Gopalpur, North Dumdum 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. They have submitted an Interim Report in this respect which is annexed herewith (Annexure-IIT)

Government of West Bengal
Department of Urban Development & Municipal Affairs
DF-8, Sector-I, Salt Lake,
Kolkata-700064

Memo No. 35/1-1(16)-JS(NG)

Date: 15.03.2021

To:

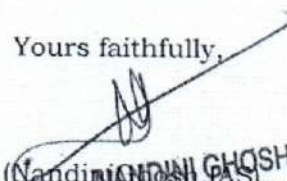
1. Municipal Commissioner, Kolkata Municipal Corporation, 5, S.N. Banerjee Road, Kolkata-7000013
2. C.E.O., K.M.D.A & PD, SPMG, Unnayan Bhavan, Sector-II, Salt Lake, Kolkata- 700091.
3. Additional Secretary, Environment Department, Pranisampad Bhavan, 5th Floor, LB-2, Sector-III, Salt Lake, Kolkata-700106.
4. Special secretary, UD & MA Department.
5. C.E.O.SJDA, 41/196, Hill Cart Rd, Ward 3, Pradhan Nagar, Siliguri, West Bengal 734001
6. C.E.O.ADDA, 2nd Floor, Administrative Building, 1st St, City Center, Durgapur, West Bengal 713216
7. Director, SUDA, HB-305, AB Rd, HC Block, Sector III, Bidhannagar, Kolkata, West Bengal 700106.
8. Additional Project Director, SPMG, Unnayan Bhavan, Sector-II, Salt Lake, Kolkata- 700091.
9. Secretary, MED, Bikash Bhavan, Salt Lake, Kolkata, West Bengal 700091.
10. Chief Engineer, GAP Sector, KMDA, Unnayan Bhavan, Sector-II, Salt Lake, Kolkata- 700091.
11. Chief Engineer, KMDA, Unnayan Bhavan, Sector-II, Salt Lake, Kolkata- 700091.
12. Chief Engineer, P.H.E., 7th floor, New Secretariat Building, I.K.S.Roy Road,, Pin - 700001
13. Chief Engineer, MED, Bikash Bhavan, Salt Lake, Kolkata, West Bengal 700091.
14. Special Engineer, SLRDC, DF Block, Salt Lake, Kolkata, West Bengal 700091.
15. Dr. T.K. Gupta, Chief Technical Advisor, West Bengal State Pollution Control Board and Environment Department, Government of West Bengal, Paribesh Bhavan, 10A, LA Block, Sector III, Bidhannagar, Kolkata, West Bengal 700106
16. Senior Law Officer, UD & MA Department.

Sub:-MOM of the Review Meeting of Honourable Principal Secretary UD & MA Department on Issues related with Solid & Liquid Waste Management in West Bengal held on 3rd March 2021 at the Conference Hall of Nagarayan.

Sir/Madam,

With reference to the above subject I am directed to attach herewith the Minutes of the above Meeting for your kind perusal and further actions.

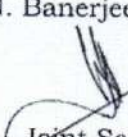
Yours faithfully,


NANDINI GHOSH, IAS
Joint Secretary
Department of Urban Development &
Municipal Affairs,
Government of West Bengal
Date: 15.03.2021

Memo No. 35/1-2(3)-JS(NG)

Copy forwarded for kind information to:

- 1) Special Municipal Commissioner, Kolkata Municipal Corporation, 5, S.N. Banerjee Road, Kolkata-7000013.
- 2) O.S.D to Municipal Commissioner, Kolkata Municipal Corporation, 5, S.N. Banerjee Road, Kolkata-7000013.
- 3) P.S to Principal Secretary, UD & MA Department.


NANDINI GHOSH, IAS
Joint Secretary
Department of Urban Development &
Municipal Affairs,
Government of West Bengal
15/03/2021

MOM of the Review Meeting of Honourable Principal Secretary UD & MA Department on Issues related with Solid & Liquid Waste Management in West Bengal held on 3rd March 2021 at the Conference Hall of Nagarayan.

The meeting was chaired by Ld Principal Secretary UD&MA Department, and was attended by the officials and Engineers as below:

1. CEO KMDA & PD SPMG
2. Additional Secretary, Environment Department
3. Special Secretary, UD & MA
4. Nandini Ghosh, Joint Secretary
5. CEO SJDA
6. CEO ADDA
7. Director SUDA
8. Additional Project Director, SPMG
9. Secretary MED
10. Dr T. K. Gupta, Chief Technical Advisor, CPCB
11. Senior Law Officer, UD & MA
12. Concerned Engineers from KMDA, KMC, PHE, SLRDC, ADDA and SJDA
13. Team SPMG

Principal Secretary UD&MA Department welcomed all with Season's Greetings and highlighted the agenda of the meeting which were as follows:

AGENDA

1. Progress in Tolly's Nullah Project-KMC:

Draft Technical Bid Evaluation Report has been submitted by KMC to NMCG for approval. There have been certain observations by Finance Department on EMD and Bid Security money. It has been decided that KMC would put up specific proposals through E-file and clarify the matter to the Finance Department through SPMG and UD & MA and the matter will be sorted out soon.

2. Hooghly-Chinsurah STP Project-KMDA:

There had been some land issues in this Project but KMDA has sorted out an alternative site at Taldanga under its control. There are some 60 trees which need to be uprooted for the purpose of the construction. UD & MA has taken up the issue with the Forest Department and DFO. The matter has been settled, KMC would apply online by next week for necessary permission from the Forest Department. KMDA has informed the matter to NMCG and work will start soon.

3. Mahesthala Project-KMDA:

Final LOA has been issued by KMDA on 11.02.2021. Concessionaire agreement will be signed on April 2021.

4. HAM Projects-KMDA (Howrah):

Concessionaire agreement has been signed. Work has started and handing over procedure of the proposed site will be completed after the Election. It has been decided that UD & MA would seek an updated Report regarding the progress of Rehabilitation of the fishermen from the Convenor of the Committee (Joint Secretary KDMA) constituted by this Department for smooth and speedy progress in the matter.

5. GardenReach-Keorapukur Rehabilitation Project-KMC:

KMC has already deployed an agency to prepare the Condition Assessment Report as well as DPR. The Agency will submit its Report by 31st March 2021. It has been decided that KMC would place a formal prayer before NMCG seeking its approval in switching over from HAM model to DBOT model. This project has a capital cost of around Rs. 20 Crores and around Rs 140 Crores as O&M for 15 years. The prayer is routed through PD SPMG.

6. Rejuvenation of Jiaganj-Azimganj Oxidation Pond -MED:

There has been slight revision of the civil estimate and this estimate along with the EMD estimate would be submitted to the Department by the next week.

7. Kestopur STP- SLRDC

Work Order has already been issued to the Party and the work started.

8. Barrackpore, Halishahar, Budge Budge STP-KMDA

Trial run is going on and the remaining work of Tran's sewer line will be taken up after Election.

Progress of Pollution Abatement Work in Polluted River Stretches:-

MED:

- **Karola-West Bengal** has taken up Korala river as a Model river having 46 number of Outfalls. UD & MA Department is happy to state that the work is 100% complete. We have made at least one river Pollution free. Since Korala is connected with river Teesta so in a way, the pollution of river Teesta is also getting controlled to some extent.
- **Kansi:** Work started – 70% completed.
- **Mayurakshi:** There are some land issues; Department of UD & MA has taken up the matter.

- **Rupnarayan:** Work started – 40% completed
- **Jalangi:** Work started – 80% completed
- **Silabati:** Work started – 35% completed
- **Dwarekeswar:** Work started – 55% completed
- **Kaljani:** Work started – 90% completed
- **Churni- KMDA:** Department of UD & MA has called a special meeting of DTC on 4th March 2021 to finalise the tender of three (03) numbers of STPs on river Churni. The DTC has cleared the tender and the matter is lying with Finance Department for approval.

PHE & KMDA

- **Bidyadhari:-** Two (02) numbers of STPs are proposed to be constructed at Kestopur and DPR has been finalised by KMDA. For the STP to be constructed on Bagjola arm, there are some land issue which the Department of UD & MA is sorting out. PHE has completed a survey of the outfalls on Bidyadhari and is taking Expert opinion on application of appropriate technologies for combating Pollution.

SJDA

- **Teesta-** SJDA has engaged a consultant for doing a Feasibility study and the Report is expected to be submitted by 31st March 2021.
- **Mahananda-** KMDA has vetted the DPR amounting to Rs. 62,18,27,777.00/- UD & MA has sought an Expert Opinion in this matter. The tender has already been floated. Bid submission last date- 08.03.2021 and Opening date- 13.03.2021.

ADDA

- **Barakar-** The agency has proposed two (02) numbers of STPs on river Barakar.
- **Damodar-** The agency has proposed seven (07) numbers of STPs on river Damodar. ADDA and UD & MA are sorting out the land issues, post which DPR will be finalized.

- **Progress of Tendering in SWM including Legacy Dumpsites.**

Status of Legacy Waste	
Status of Tender floated for Bio-mining of legacy waste	No. of Dumpsites
WO Issued, Work Started	49
Tender Floated	42
Yet to Float	16
TOTAL	107

Dumpsite taken up by :

1. KMDA: 75
2. SUDA: 12
3. KMC: 2
4. HMC: 2
5. BMC: 1
6. 15 Sites have land issues. SUDA is trying to resolve it

- **Installation of OCEMS:**

UD & MA has constituted a Tender Committee to expedite the process. The first call did not mature and second call has been invited. The Bid opening date is on 12th March 2021.

Miscellaneous Issues discussed and Decisions made:

1. It was again instructed by Ld Principal Secretary that from now onward all the STPs would be constructed on ' Turn Key basis ' with forward and backward linkages (Trans Sewer Network, Interception & diversion, House connections, Installation of OCEMS, Setting up of Environmental Lab) as an integrated Project. One single Agency would complete all the work.
2. Presently there is an overall Gap in the treatment capacity in urban area of 383.68 MLD. To address this Gap, proposals for additional treatment capacity of 550 MLD (based on estimated population in 2036) by setting up new STPs in 16 Ganga Towns and by capacity augmentation of existing STPs, all amounting to Rs. 2,885 crore have been sent to NMCG under Namami Gange -II (2021-2023) by PD, SPMG on 4th February, 2021. Previously it was decided that this work of augmentation and construction of STP is to be done by KMDA in KMA area and by PHE in non KMA area. Subsequently, PHED has expressed their inability to take up this additional work under NG-II. They would continue with the Pollution Abetment programme for Bidyadhari river. It has been decided in the meeting that from now onward in non KMA area the work under NG-II programme will be executed by MED. DPR's to be prepared by KMDA and the tendering process will be completed by KMDA as per financial norms the execution part will be implemented by MED.

3. It has been decided that from now onward the preparation of Feasibility Report and DPR would be executed under the same tender. Both the work will be taken up together by the successful bidder as this will expedite the process.
4. It was decided that a Liquid Waste Management Cell would be setup in the Department of UD & MA under supervision of Nandini Ghosh, Joint Secretary and for this matter PD PSMG would be formally requested to engage man-power on contractual basis.
5. Use of Mobile App- CPCB has instructed that the data regarding all the STPs in West Bengal is to be digitised in a mobile app created by CPCB. It has sent User ids and Passwords for some of the STPs. Department of UD & MA has taken up the matter and has written to the CPCB for providing balance user id and passwords for 25 number of STPs. After getting the complete list, the process of digitisation would start.


(Khalil Ahmed)
Principal Secretary,
UD & MA Department

Government of West Bengal
Department of Urban Development & Municipal Affairs
DF-8, Sector-I, Salt Lake,
Kolkata-700064

Memo No. 46-1(15)-JS(NG)

Date: 24.03.2021

To:

1. Municipal Commissioner, Kolkata Municipal Corporation, 5, S.N. Banerjee Road, Kolkata-700013
2. C.E.O., K.M.D.A & PD, SPMG, Unnayan Bhavan, Sector-II, Salt Lake, Kolkata- 700091.
3. Additional Secretary, Environment Department, Pranisampad Bhavan, 5th Floor, LB-2, Sector-III, Salt Lake, Kolkata-700106.
4. Special secretary, UD & MA Department.
5. C.E.O.SJDA, 41/196, Hill Cart Rd, Ward 3, Pradhan Nagar, Siliguri, West Bengal 734001
6. C.E.O.ADDA, 2nd Floor, Administrative Building, 1st St, City Center, Durgapur, West Bengal 713216
7. Director, SUDA, HB-305, AB Rd, HC Block, Sector III, Bidhannagar, Kolkata, West Bengal 700106.
8. Additional Project Director, SPMG, Unnayan Bhavan, Sector-II, Salt Lake, Kolkata- 700091.
9. Secretary, MED, Bikash Bhavan, Salt Lake, Kolkata, West Bengal 700091.
10. Chief Engineer, GAP Sector, KMDA, Unnayan Bhavan, Sector-II, Salt Lake, Kolkata- 700091.
11. Chief Engineer, KMDA, Unnayan Bhavan, Sector-II, Salt Lake, Kolkata- 700091.
12. Chief Engineer, P.H.E., 7th floor, New Secretariat Building, 1.K.S.Roy Road,, Pin - 700001
13. Chief Engineer, MED, Bikash Bhavan, Salt Lake, Kolkata, West Bengal 700091.
14. Dr. T.K. Gupta, Chief Technical Advisor, West Bengal State Pollution Control Board and Environment Department, Government of West Bengal, Paribesh Bhavan, 10A, LA Block, Sector III, Bidhannagar, Kolkata, West Bengal 700106
15. Senior Law Officer, UD & MA Department.

Sub:- MOM of the Review Meeting of Honourable Principal Secretary UD & MA Department on Issues related with Liquid Waste Management in West Bengal held on 18th March 2021 at the Conference Hall of Nagarayan.

Sir/Madam,

With reference to the above subject I am directed to attach herewith the Minutes of the above Meeting for your kind perusal and further actions.

Yours Faithfully,

(Nandini Ghosh, IAS)

Joint Secretary

Department of Urban Development & Municipal Affairs,

Government of West Bengal

Memo No. 46/1-2(3)-JS(NG)

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- 2) O.S.D to Municipal Commissioner, Kolkata Municipal Corporation, 5, S.N. Banerjee Road, Kolkata-700013.
- 3) P.S to Principal Secretary, UD & MA Department.

Joint Secretary

**MOM of the Review Meeting of Honourable Principal Secretary UD & MA
Department on Issues related with Liquid Waste Management in West Bengal held
on 18th March 2021 at the Conference Hall of Nagarayan.**

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2. Additional Secretary, Environment Department
3. Nandini Ghosh, Joint Secretary
4. CEO SJDA
5. CEO ADDA
6. Additional Project Director, SPMG
7. Director General, Tolly Nullah
8. Secretary MED
9. Dr T. K. Gupta, Chief Technical Advisor, CPCB
10. Chief Engineer, GAP Sector, KMDA
11. Chief Engineer, KMDA
12. Chief Engineer, MED
13. Additional Chief Engineer, SJDA
14. Special Engineer, SLRDC
15. Senior Law Officer, UD & MA
16. Concerned Engineers from KMDA, KMC, PHE, SLRDC, ADDA and SJDA
17. Team SPMG

Principal Secretary UD&MA Department welcomed all with Season's Greetings and highlighted the agenda of the meeting which were as follows:

AGENDA

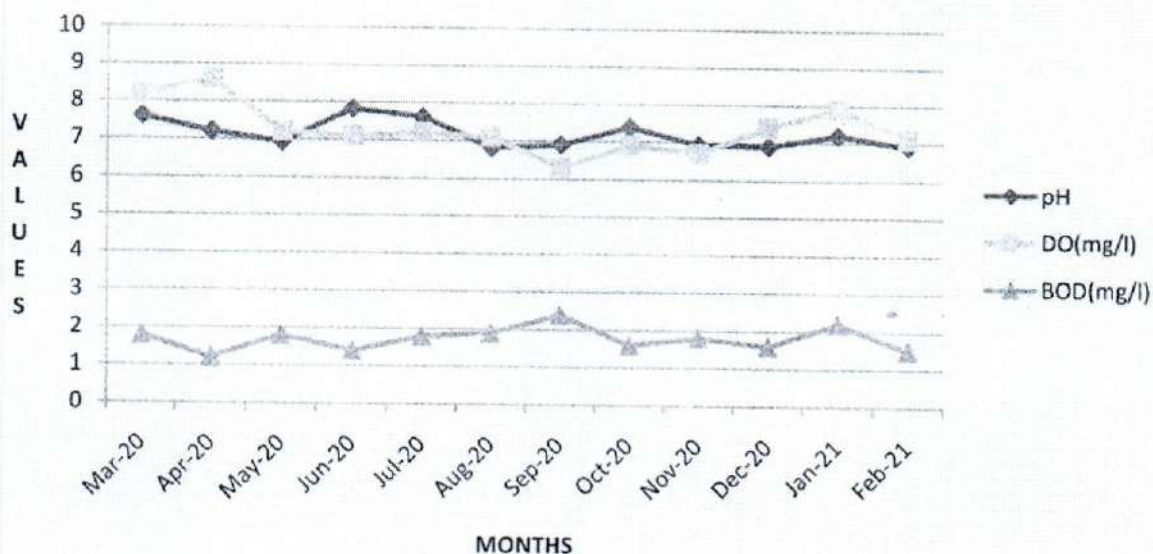
- 1. Inclusion of Report on Monitoring & Review Meetings done with details like RRC,LWM Committee etc including good quality photos:**

It has been decided to include the Report on Monitoring & Review meetings done along with good quality photos, Site Inspection Report and Reports on the meetings of RRC and LWM Committee.

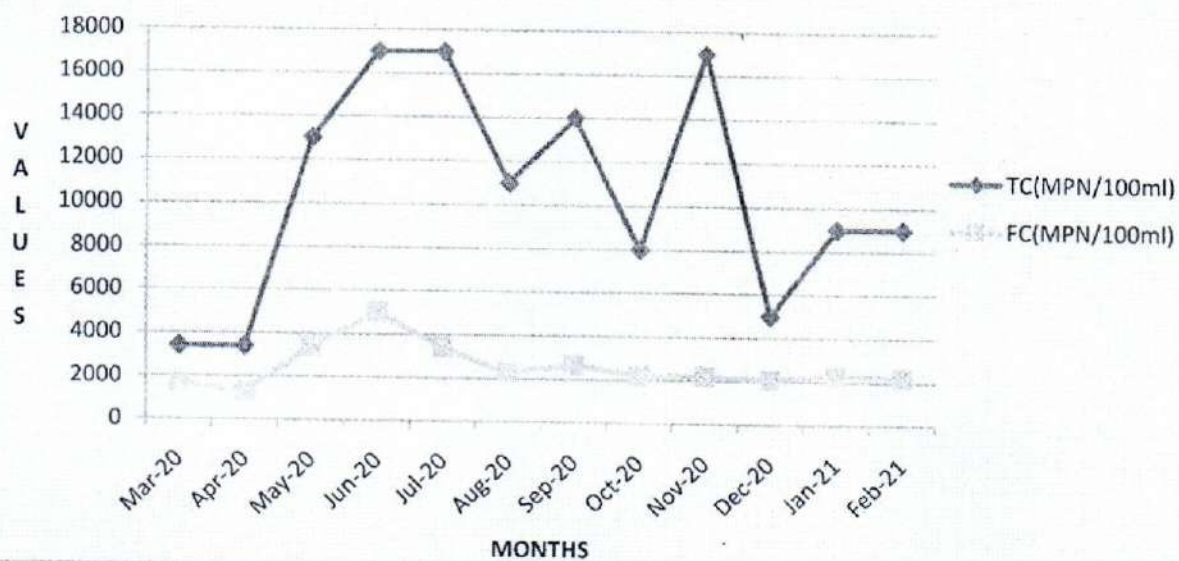
- 2. Inclusion on Analytics on WQ & Industrial Effluent Data:**

From now onwards, as advised by NMCG, analytics on WQ and Industrial Effluent would be incorporate in the Report. A specimen is given as under.

River Karola



RIVER KAROLA



3. Demarcation of Flood Plain Zones:

WBPCB is working on this issue along with Irrigation Department, GoWB. A Report in this regard is to be submitted by 30th June 2021. It has been decided that WBPCB would write to CPCB and NMCG seeking clarification regarding the definition of Flood plains. (What is a Flood plain zone, what is its definition)

4. Progress of Online Monitoring through OCEMs & Mobile app:

Since KMDA is a Nodal Agency regarding installation of OCEMS, a Report is to be submitted in this regard. With respect to Digitisation of STPs in Mobile app as devised by CPCB, an exclusive Training has been given by CPCB to the Executing Agencies/STP operators of West Bengal on 18th March 2021. It has been decided that the Static and Dynamic data regarding STPs should be digitised in the app by 30th April 2021.

5. A separate Note on EKW:

It has been decided that from now onward a separate note on EKW is to be incorporated in the Reports & Returns. The Environment Department has been requested to submit a specific Report on the Quality and Quantity of Sewer water getting treated as EKW.

6. Special Mention of Cleaning of Ghats, Plantation & Bio-Diversity Parks:

- Ghats: Regarding cleaning of Ghats, MED has been entrusted with fencing, and netting on the banks of the rivers and screening of the drains. They have been requested to submit a Report along with good quality photographs to the Department. Cleaning and removal of garbages from the banks of the river is to be included in the O&M with the Agencies doing the abovementioned work. The O&M should be at least for three years and then it is to be handed over to the concerned Municipalities. Project Director, SPMG and Nandini Ghosh, Joint Secretary have been requested to publish a Copy Book on Ghats of river Ganga along with their geographical and historical importance.
- Plantation & Bio-Diversity Parks: In Murshidabad, a model Bio-diversity Park has been setup. A Report is requested to be sought from the Forest Department in this regard. Team SPMG and Sri Arup Ratan Mukhopadhyaya, JS Budget have been entrusted to chalk out the possibilities of setting up of Bio-diversity Parks with local species of plants and Butterfly parks. They have been requested to submit a Report in this regard early.

7. Land issues:

- **Bagjola STP.**

KMDA has been requested to find out small plot of lands for construction of these STPs and put up the sign board.

- **Site for Pollution Abatement work at Suri & Sainthia.**

MED has been requested to conduct an Internal Review whether the scope of the DPR need to be revised or not. Also, they were requested to look at the Feasibility of including Aeration Tanks constructed by the Municipalities. A Report has been sought by 16th April 2021.

- **STP site of Baharampore.**

KMDA has been requested to sort out this matter with Local Administration keeping Sri Debopriya Biswas, Joint Secretary in the loop.

- **New Site of Hooghly & Chinsurah STP at Taldanga**

Work has already been started for uprooting the trees of this site. KMDA is coordinating with DFO Howrah in this regard.

- **Site of Anandapuri cleared for Barrackpore STP Project.**

MOD has given ROW at Anandapuri for laying out the Sewer line for Barrack pore STP. Work will start soon.

- **STP at Bardhaman.**

KMDA has been requested to sit with the Bardhaman Development Authority to sort out this issue.

- **New Pumping station at Jiaganj:**

MED has given the Civil Estimate of this work; EM estimate is to be given by KMDA. CEO KMDA who is also CEO MED is looking into the matter and it will be sorted out soon.

8. Progress of Tolly Nullah Project, Review Meeting of Chief Secretary on OA-12, Adi Ganga Case scheduled on 24th March 2021:

Department of UD & MA has prepared the Meeting Notice and sent the invitation to all concerned Department with a request to attend the meeting. KMC being the Executing Agency has been requested to prepare a Presentation to be shown and also to draw up a Report to be submitted to the Chief Secretary.

KMC has also been requested to send the Draft Technical Bid Evaluation Report to NMCG immediately without any further delay for their observation and approval.

9. Proposed STPs on Damodar and Barakar (Proposed Bio-Phyto Remediation):

The Department has directed CEO ADDA to continue with the proposed Bio Phyto- remediation in two Nullahs of Damodar. In this context, Chief Engineer, GAP Sector, KMDA and his team have been instructed to visit the site and provide Technical guidance in this matter.

Prof Arunabha Majumdar, Honorary Member of LWM Committee also would be consulted in this issue.

10. Feasibility Report on River Teesta:

The Department has directed CEO SJDA to continue with the proposed Feasability Report as prepared by the Qualified Agency for Teesta. In this context, Chief Engineer, GAP Sector, KMDA and his team have been instructed to visit the site and provide Technical guidance in this matter.

Prof Arunabha Majumdar, Honorary Member of LWM Committee also would be consulted in this issue.

For both Agenda no 9 and 10, it has been decided that Payment to the parties will be essentially linked with the quality of Performance and Results.

11. Budget Issues:

- Review of NG-2 Budget, finalizing the STPs & including Mayapur STP as Krishna Nagar -2 STP.

PD SPMG has been requested to look into the matter and finalize the Budget proposal for NG-2.

The cost of the Project to include installation of STPs, I&D network, Installation of OCEMS, Setting up of Environmental Lab and O&M.

- Proposed Budgetary Estimate for different types of Pollution Abatement works ongoing and upcoming as per order of HNGT for the period 2021-2022 to be bourn from State Fund.

Sri Arup Ratan Mukhopadhyaya, JS Budget has requested the Executing Agencies to draw plans in this regard. A Format would be circulated from the Budget Cell to all concerned for standardizing the process.

PD SPMG and Smt Nandini Ghosh, JS, UD MA have been entrusted to organize a whole day Workshop cum Seminar on different technologies for combating Pollution in the rivers and water stretches. They may invite competent Agencies from across the State to discuss and make presentations on the strategies involved into it. Participants of this Workshop will include Officials and concerned Engineers from different Executing agencies.

- Tolly Nullah EMD issue.

Department of UD & MA has already sent the file along with its observations to Finance Department for modifying their earlier views on the above issue. In the meanwhile, KMC is to send the Draft TBER to NMCG immediate for their observation and approval.

- Fund for electricity deposit of Garulia Crematorium.

JS Budget opined that he is looking into this matter.

12. Miscellaneous issues:

- Decision on 22 Polluted Drains.

The Department has sought a Report from KMDA and the same is to reach to the Department by 25th March 2021 & subsequently to be sent to CPCB. In this context, KMDA stated that out of these 22 drains, 3 drains containing mainly industrial effluent will be taken care of by WBPCB and 2 drains namely Old Muni khal and Bagher khal will be connected to the ongoing STP projects through I&D. For the remaining 17 drains, the Feasibility Report of the 10 drains will be prepared by the existing Agency already engaged by KMDA in this work and for rest 7 drains with heavy flow and discharge, some competent Professional Agencies will be engaged through Tendering process shortly.

- Permission to continue NGT Works (relief from MCC).

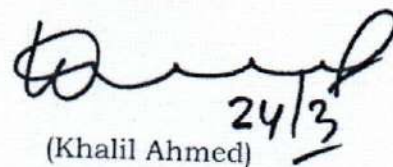
Sri Saikat Dutta, Joint Secretary, UD & MA has elaborately explained the mechanism for seeking exemption from MCC for the ongoing Projects covered under the direction of Hon'ble NGT. He has also shared a PowerPoint presentation to all. All concerned have been accordingly instructed to follow the procedure and send the proposals to him and to the Special Secretary, UD & MA.

- Payment of Vetting charge to KMDA:

In case the EM portion of any DPR prepared for STPs by MED, SJDA, ADDA and other Executing Agencies need to be vetted by KMDA, it is decided that Vetting charge is to be paid to KMDA and the cost element is to be included in the Project cost.

- Use of 'Paribesh' App and Digitization of STPs through Mobile App

All concerned have been duly instructed to use the above mentioned apps and furnish a compliance Report by 30th April 2021.


24/3

(Khalil Ahmed)
Principal Secretary,
UD & MA Department

No. 05/US(L)/D(Lands)/2021
Government of India,
Ministry of Defence
Department of Defence
New Delhi-110001
Dated: 04.05.2021

To

1. The Chief of Army Staff, New Delhi.
2. The Director General
Defence Estates, Raksha Sampada Bhawan
Ulaanbaatar Marg, Delhi Cantt.

Subject:- Grant of working permission on the 324 Sqm defence land (analogous to A-1) at Barrackpore for the purpose of laying sewerage network pipeline under "National Mission for Clean Ganga".

Sir,

I am directed to convey the sanction of the President for grant of working permission for laying of underground sewerage pipe line on defence land admeasuring 324 Sqmtr comprising RS Plot Nos. 4893 and 432 and khatian No. 1529 of Mouza Chanak, JL No. 4, North Parganas at Anandpuri Rifle Range to the Kolkata Metropolitan Development Authority (KMDA) initially for a period of 05 years w.e.f. the date of execution of license on payment of nominal licence fee of Rs. 1/- per Sqmt per annum along with refundable security deposit of Rs. 4,11,570.60 as per para 5 (C) of the MoD Guidelines No. 11015/2/2012/D(Lands) dated 02.02.2016.

2. The said working permission is subject to the following terms and conditions:-

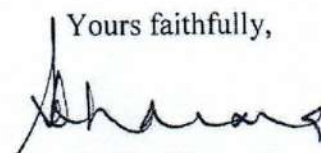
- i) The licence will be renewed after every 05 years on the request of the KMDA and licence fee will be decided by MoD.
- ii) There will be no alienation of land and title and management of defence land will continue to be with LMA throughout the duration of the license.
- iii) KMDA will deposit refundable security money amounting to Rs. 4,11,570.60 to DEO Kolkata before the execution of work. The refund of security money will be made by the DEO, on completion of work and site clearance by the KMDA to the satisfaction of DEO.
- iv) After completion of work, the land will be handed over back to the DEO. An undertaking to this effect will be submitted by the KMDA to MoD/DEO before execution of work on defence land.
- v) Permission is given only for laying sewerage pipeline under the defence land and for no other purpose.
- vi) All precautions for public safety and security will be taken by the executing agency during laying the pipeline by duly displaying notice boards etc at site.
- vii) During excavation, no damages should be done to existing utility services, communication lines by roads.
- viii) All services (E/M & B/R) which get damaged during laying of sewer line shall be repaired and restarted with 4 to 6 hrs by KMDA.
- ix) Trenchless excavation (including E/M and B/R services) be carried out whenever LMA/DEO made request.
- x) No overground construction will be made except manholes as indicated in the proposal.



- xi) Land will be restored to its original state after the completion of the work.
- xii) The reps of LMA/DEO, Kolkata will have unhindered access to the land at site to discharge official work and the laying of the sewer line will be as per directions given by DEO/GE/Cantt Board.
- xiii) Temporary handing/taking over of the subject land will be done with a properly demarcated site plan showing reference points on both ends.
- xiv) The KMDA will be fully responsible for repair/maintenance of the sewerage pipeline.
- xv) Any existing sewer line in the Cantt Area that is to be connected to the sewer line will be so connected without any charge by KMDA.
- xvi) Prior to executing work, all necessary formalities will be completed by KMDA. On any matters of disagreement, the matter will be referred to PDDE Eastern Command whose decision will be final and binding on both parties.
- xvii) Any dispute regarding the interpretation or implementation of this sanction shall be settled only through consultation between both the parties i.e., PDDE, DE Kolkata and the KMDA.
- xviii) The KMDA will execute a licence agreement as mentioned above with the Defence Estate Officer, Kolkata.

3. This issue with the concurrence of Ministry of Defence (Finance) vide their U.O. No. 62 dated 04.05.2021.

Yours faithfully,



(Sanjay Sharma)

Under Secretary to the Government of India,

Copy to:-

1. Min. of Defence (Fin /W-1) Kashmir House, New Delhi.
2. CGDA, Ulaanbaatar Marg, Delhi Cantt-10.
3. DGA DS, L-II Block, Brassey Avenue New Delhi-11.
4. HQ Southern Command, Q (Lands).
5. PCDA, Eastern Command, Kolkata.
6. PDDE, Eastern Command, Kolkata
7. Col Land (North & East), AHQ
8. Kolkata Metropolitan Development Authority, Kolkata
9. DEO, Kolkata.

**MOM held by the Tolly Nullah Committee on 31.03.2021 at the Conference Hall at
NAGARAYAN, DF – 8, Sector – I, Salt Lake, in connection with O.A. 12 of 2015/EZ**

The Hon'ble NGT has passed several orders including an order on 21.09.2020 in O.A. No. 12/2015/EZ (Joydeep Mukherjee, -Vs -The Chairman, Pollution Control Board & Ors) directing *inter-alia* to take effective steps for abatement of pollution of Tolly Nullah.

Environment is an important issue affecting the quality of life. Accordingly, inspired by the Order of Hon'ble NGT, Principal Secretary Department of UD & MA, GoWB personally took up this noble cause and constituted an internal Committee for striking Inter-Departmental co-ordination so that the directions passed by Hon'ble NGT may be executed speedily.

Principal Secretary, Department of UD & MA has a very important role to play in restoring the water quality of Tolly Nullah for ensuring quality public health and for maintaining Environmental balance. We submit to the Hon'ble Tribunal that whenever this Internal Committee sits, the Minutes of Meeting and decisions would be placed before Hon'ble Tribunal for further guidance and directions.

It may kindly be submitted that, the works of this Committee will not in any way interfere/affect the works of the Committee constituted by Hon'ble NGT.

The above mentioned Internal Committee has been constituted vide this Department's Order no. 16/(Law)/UDMA/15011(15)/15/2020 dated 24.03.2021 with the following members:

1.	Smt. Nandini Ghosh, IAS, Joint Secretary, UD&MA Department, Govt. of West Bengal.	Chairman
2.	A representative from Kolkata Port Trust	Member
3.	A representative from Metro Railway, Kolkata	Member
4.	Additional Secretary, IAS, Environment Department	Member
5.	Special Municipal Commissioner, KMC	Special Invitee
6.	Sri Joly Chowdhury, WBCS (Exe.), Joint Secretary, UD&MA Department, Govt. of West Bengal	Member
7.	Sri Arup Rattan Mukhopadhyay, WBCS (Exe.), Joint Secretary, UD&MA Department, Govt. of West Bengal	Member
8.	A representative Irrigation and Water bodies Department not below the rank of Joint Secretary.	Member
9.	Chief Municipal Law Officer, KMC	Member
10.	DG, Tolly Nullah KMC.	Member
11.	DG, Solid waste Management, KMC	Member
12.	Chief Engineer, Bridge, (KMDA)	Member
13.	Sri T.K Gupta, Chief Technical Advisor, Department of Environment & WBPCB.	Member
14.	Sri Sukdeb Das Sr. Law Officer UD&MA Department	Member Convener
15.	Sr. Law Officer, Environment Department	Member

1. The 1st meeting of the said Committee was held on 31.03.2021 and it was chaired by Ld. Principal Secretary, UD & MA Department, and was attended by the Officials as below:

- Sri Rabijyoti Majumder, Additional Secretary, IAS, Environment Department
- Sri Joly Chowdhury, WBCS (Exe.), Joint Secretary, UD & MA Department
- Chief Engineer, KoPT
- Sri Biswajit Majumder, DG, Tolly Nullah KMC
- Sri Sri. S.M. J. Ahsan, CE/O&M, Metro Railway, Kolkata
- Shri T.K Gupta, Chief Technical Advisor, WBPCB
- Sri Biplab Mukherjee, Deputy Secretary – 1, I & W Department
- Sri Bhaskar Sengupta, Chief Engineer, Bridge,(KMDA)
- Sri Partha Pratim Datta, Manager(Env.), KoPT
- Sri P.P. Saha, Addl. CMLO, KMC
- Smt. Pousali Pahari, Sr. Law Officer, Environment Department
- Sri Pratip Kumar Mondal, EE(E), KMC
- Mr. Fazul Haque, Asst. Eng. (Tolly Nullah)
- Sri Pravakar Roy, EE(C), TPDD
- Sri Suman Roy, Dy. CMLO, KMC
- Sri Subkhankar Bhattacharya, Addl. CE
- Chairperson,BOA, Rajpur Sonarpur Municipality as Special Invitee.

2. Agenda of the meeting held on 31.03.2021

(a) The main issues involved in this case are :

- (i) Setting up of STP at Russa Road South and at Chandi Ghosh Road, Ward No. 27.
- (ii) Removal of encroachments from the banks of Adi Ganga and Rehabilitation of displaced persons and request for providing land from KoPT.
- (iii) Demarcation of silt and hydrophytes of entire stretch of the river Adi Ganga.
- (iv) Required Action Plans to be prepared by KMC.
- (v) Strict vigil by WBPCB with regard to implementation of the project.
- (vi) KMC will act as Nodal Agency.
- (vii) Proper management of waste materials surrounding Kalighat Temple.
- (viii) Status of concrete structure constructed near Karunamoyee and Garia market.
- (ix) Status of concrete structure near Kalighat Temple.
- (x) Cleaning of canal from Garia Bazar to Vidyadhari river.
- (xi) Cleaning of Adi Ganga under the Metro Station .
- (xii) Dredging of Adi Ganga .
- (xiii) Fencing, netting and beautification of vacant land of both side of Adi Ganga.
- (xiv) Putting up of IEC materials, public awareness through miking etc.

(b) The above issues have been discussed thoroughly and following decisions have been taken:

- (i) A Report will have to be prepared by the UD & MA Department and will be shared with KMC, Metro Railways, KoPT, WBPCB, KMDA, I & W Department, Govt. of West Bengal and all other stakeholders.
- (ii) The Committee formed by UD & MA Department will coordinate with all stake holders.

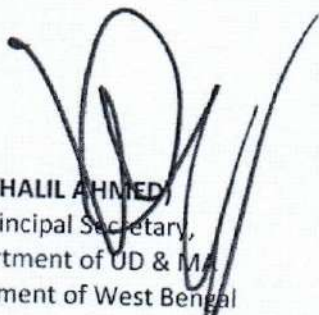
3. Action Point

Sl No.	Action point	Executing Agency	Timeline
(i)	Map and drawings for demarcation of the stretch of Tolly Nullah to KMC	I&W Department	10 th May,2021
(ii)	Draft Technical Bid evaluation report has been sent to NMCG on 23.03.2021by KMC. Now they are waiting for approval of World Bank for opening up of Financial Bid. In the meanwhile, MC, KMC is requested to communicate with the Home & Hill Affairs Department, GoWB for official hand over of land for setting up of STP at Chandi Ghosh Road (Police Telecom)	KMC	10 May,2021
(iii)	A complete report regarding present sewer condition and mechanism of discharge of sewer water in Tolly Nullah starting from Alipore Zoo to Garia Bazar.	KMC	10 th May,2021
(iv)	Demarcation of silt and hydrophytes of river Adi Ganga for the entire stretch of the river.	KMC will file an updated report.	31 st May, 2021
(v)	Coordination of KMC with all its internal wings (Drainage, Basti, SWM Wing, LWM Wing etc) and external stakeholders (KMDA, Irrigation & Waterways Department, KoPT, Metro Railways , Environment Department, Rajpur Sonarpur Municipality etc.)	KMC	1 st meeting would be convened by 15 th May, 2021
(vi)	Water quality report of Adi Ganga at different points.	WBPCB	1 st report will be submitted by 15 th May, 2021
(vii)	KMC will act as Nodal Agency	KMC should immediately form a committee headed by MC, KMC and start functioning as Nodal Agency as per direction of Hon'ble NGTby convening a	10 th May,2021

		meeting with all concerned.	
(viii)	Proper management of waste materials surrounding Kalighat Temple. .	(1) Putting up of bins (2) Feasibility study regarding setting up of Organic Composters for the purpose of segregation and disposal of wastes in the nearby parks.	10 th May,2021 31 st May, 2021
(ix)	Concrete structure constructed near Karunamoyee and Garia Bazar whether or not obstructing the e-flow of the canal.	KMDA	10 th May,2021
(x)	Concrete structure constructed near Kalighat Temple whether or not obstructing the e-flow of the canal.	I&W Department	10 th May,2021
(xi)	A joint visit by Metro Railways, WBPCB, KMC and Committee members, under the Metro Rail Stations constructed on the river stretch to assess the e-flow, solid and liquid waste generated and managed in the Nullah.	UD & MA Department	On a suitable day within 15.05.2021
(xii)	Rajpur Sonarpur Municipality will report with respect to waste management from Dhalai Bridge to Garia Station and from Garia Bazar and onwards.	Rajpur Sonarpur Municipality	15 th May, 2021
(xiii)	Consequent work of dredging, fencing, netting and beautification of both side of Adi Ganga in the vacant portions of the banks.	KMC	31 st May, 2021
(xiv)	Putting up of IEC materials, public awareness through miking.	KMC	On regular basis.
(xv)	Cleaning of canal from Garia Bazar to Vidyadhari river and beautification on both sides.	I & W Department	First report to be filed by 31 st May,2021

- N.B: (i) KMC has submitted an Updated Report as on 31.03.2021 on Tolly Nullah with photos which is enclosed herewith and marked as **Annexure- R/1.**
- (ii) Metro Railway has submitted a report to the committee which is enclosed herewith and marked as **Annexure- R/2.**
- (iii) The committee will sit in the first week of June, 2021 and review each item of the minutes as stated above.

All the concerned authorities will submit their respective reports within the timeline to the Chairman of the Committee positively.



(KHALIL AHMED)
Principal Secretary,
Department of UD & MA
Government of West Bengal