Government of West Bengal
Department of Environment

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

No. EN/270/3C-01/2019 Dated, Kolkata 11 February, 2020

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 – December-2020 & January, 2021

Sir,

The undersigned is directed to forward herewith the Monthly Performance Report(MPR) in the prescribed proforma covering the months of December-2020 & January, 2021for the State of West Bengal in respect of polluted river stretches in West Bengal.

It is humbly requested that the MPR of West Bengal may kindly be taken note of and be included in your comprehensive report for consideration of Hon'ble NGT for next hearing fixed on 16th Frbruary,2021.

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 December 2020 and January 2021 and updated as on 10.02.2021)
West Bengal

Overall status of the State:

I. Total Population: Urban Population & Rural Population: **10.09 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. To address the gap of 383.68 MLD, 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.

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 significant reduction of the pollution load in the river. **Annexure-I**

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 Management System, an internationally acclaimed low cost wastewater treatment system maintained by Kolkata Municipal Corporation is annexed in **Annexure-III**

Details of operational STPs in the State

No.	Location	Existing STP Capacity (MLD)	Capacity Being Utilized (MLD)	Operational Status of STP	Compliance Status of STP
1.	JagaddalBhatpara 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	Shyamnagar	10.00			Complied
3	Jagaddal Bhatpara old	9.50			Complied
4	Kankinara STP,Madrail, Bhatpara	10.00			Complied
5	STP Kalyani-I	11.00	19.00		Complied
6	STP Kalyani-II	10.00			Complied
7	Gayeshpur	8.33	3.20		Complied
8	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. Renovation work of some structures will be started very soon.	Partially Complied Likely date of completion May 2021
9	Konnagar (Uttarpara)	22.00	12.00	Partially Operational. physical progress(Civil work)as on 31.01.2021 : 20%, Repairing & renovation of STP: 10%, Repairing & renovation of LS (4 nos.) & MPS (1 no) :-80% , Cleaning, Repairing & renovation of network-5%	Partially Complied
10	Naihati	11.56	7.00	Partially functional and presently undergoing renovation to make it fully functional. Overall Physical Progress as on 31.01.2021 is: 15% Repairing & renovation of STP-20% Repairing & renovation of MPS (2nos) and LS (1 no.)-15%	Partially Complied Likely date of completion May 2021.

				Cleaning, Repairing & renovation of network-10% Repairing & renovation of Diversion structure-2%	
11	Bangur	52	26	Operational	Partially complied
12	Garden Reach	57	53.68	Operational	Partially complied
13	Keorapukur	45	36	Operational	Partially complied
14	Baghajatin	15	14.25	Operational as oxidation pond	Partially complied
15	Hatisur	10	8	Operational	Partially complied
16	Nabadwip Municipality, Nadia	10	6.72	Operational	Partially complied
17	Katwa Municipality, Purba-Burdwan	4.36	2.36	Operational	Partially Complied
18	Diamond Harbour Municipality	2.03	0.2	Operational	Partially Complied
19	Murshidabad Municipality	1.96	0.24	Operational	Partially Complied
20	JiagunjAzimgunj Takia Oxidation Pond	0.69	0.47	Partially Operational as Oxidation Pond. (Estimate for Civil Part submitted to UD & MA).De-sludging of the pond is complete.	Partially Complied
21	JiagunjAzimgunj Takia Oxidation Pond	0.69	0.47	Partially Operational as Oxidation Pond. (Estimate for Civil Part submitted to UD & MA). De-sludging of the pond is complete.	Partially Complied
22	Kestopur	27.24	18	Operational Proposal for replacement of sludge pump and other components amounting approx.Rs.60 lakhs, tender has been invited and the bid opening date is on 3rd February 2021.	Partially Complied
23	Digha Sankarpur Development Area	6.7	3	Operational	Complied
24	New Town Kolkata (Action Area IIC)	31	15.4	Operational	Complied
25	New Town Kolkata (Action Area IIB)	14	2.1	Operational	Complied

26	Barrackpore	18.00	Trial run	Partially functional. Fund allotment status for House to House Connections -allotment of 35000 nos. households of Rs. 42,78,50,500.00 received from the State Govt. Fund allocated to the municipality to immediately start the tender process.	December, 2020
27	Barrackpore	6.00	Trial run	Fund allotment status for House to House Connection -allotment of 35000 nos. households of Rs. 42,78,50,500.00 received from the State Govt. Fund allocated to the municipality to immediately start the tender process.	December, 2020
28	Halisahar	16.00	Trial run	Fund allotment status for House to House Connections -allotment of 32,686 nos. households of Rs. 43, 47, 56,486.00 received from the State Govt. Fund allocated to the municipality to immediately start the tender process.	May, 2021
29	East Kolkata Wetlands	910	910		
Total		**441.36 +910 = 1351.36**	**252.39 + 910 =1162.39**		

Details of STPs in the State under Renovation

No.	Location	Existing STP Capacity (MLD)	Capacity Being Utilized (MLD)	Operational Status of STP	Compliance Status of STP
1	Baidyabati	6.00	5.00	Tendering is in progress last date of bid submission on 17.02.2021.	Under Renovation
2	Bhadreswar	7.60	5.50		Under Renovation
3	Chandannagar, Khalisani, Chinsurah-Hooghly	18.16	14.50	Partially Operational. LOI for Renovation work of the existing STP to make it fully functional has been issued on 22/06/2020. Accordingly work order has been issued on 30.06.2020. Renovation work of some structures will be started very soon.	Renovation work under progress. Likely date of completion June 2021 Partially completed.
4	Chandannagar , Khalisani, Chinsurah-Hooghly	4.50	4.00		
5	Titagarh	4.50	4.0	Partially Operational STPs. Presently undergoing renovation to make it fully functional. Overall Physical Progress as on 31.01.20210 is : 59% comprising Repairing & renovation of STP-65% Repairing & renovation of MPS (1 nos) and LS (3 no.)-40% Cleaning, Repairing & renovation of network- 10% Repairing & renovation of Diversion structure-60%	Under renovation Likely date of completion May 2021
6	Titagarh	4.50	4.5		Likely date of completion May 2021
7	Bandipur (Khardaha)	14	-	Non-functional STPs but under Renovation. Overall physical Progress as on 31.1.2021: 26% comprising Repairing & renovation of STP-20% Cleaning, repairing & renovation of network-40%	Under renovation Likely date of completion March 2021

8	Champadani	1.00		Single bidder had quoted @134% above which is not acceptable so 3rd call has been invited. Last date of Bid submission on 08.03.2021 and date of opening on 10.03.2021.	Under Renovation. Likely date of completion June 2021
9	Garulia	7.90		Non-functional and presently undergoing renovation to make it fully functional. Overall physical progress as on 31.1.2021 :50% comprising Repairing & renovation of STP-60% Repairing & renovation of MPS (1nos) and LS (1 no.)-20% Repairing & renovation of network- 30% Repairing & renovation of Diversion structure-40%	Under Renovation. Likely date of completion May 2021.
10	Naihati	6.50		Non-functional and presently Undergoing renovation to make it fully functional. Overall physical progress as on 31.01.2021 : 22% comprising- Repairing & renovation of STP-24% Repairing & renovation of MPS (2nos)-20% Repairing &renovation of network- 15% Repairing & renovation of Diversion structure-5%	Under Renovation. Likely date of completion May 2021.
11	Panihati	12.00	-	Non-functional and presently undergoing renovation to make it fully functional. Overall physical progress as on 31.1.2021: 15% comprising Repairing & renovation of STP- 5% Repairing & renovation of MPS (1nos) and LS(3no.)-10% Repairing & renovation of network- 20%	Under Renovation. Likely date of completion May 2021

12	Serampore	18.60	-	Single bidder had quoted @134% above which is not acceptable so 3rd call has been invited. Last date of Bid submission on 08.03.2021 and date of opening on 10.03.2021.	Under Renovation Likely date of completion June 2021
13	Balli (Kona)-Kona, Chakpara(Anandana gargram Panchayet	62.00		Financial Closure Status- NMCG has established bank account in the name of M/S NMCG Howrah STP ESCROW ACCOUNT (Account No: 344902010108587, IFSC Code: UBIN0534498), which shall be an interest bearing, no lien account, denominated in Indian rupees for the benefit of the Concessionaire (The Escrow Account) Site progress- Handing over procedure of Proposed site is under progress. Design vetting- Presently under observation of IIT, Kharagpur. Interception and Diversion planning status- Right now it is under preparation by the concessionaire and will be submitted within short period of time.	Under Renovation.30 months from Financial closure
14	Howrah-Arupara	65.00	-	**Financial Closure Status-** NMCG has established bank account in the name of M/S NMCG Howrah STP ESCROW ACCOUNT (Account No: 344902010108587, IFSC Code: UBIN0534498), which shall be an interest bearing, no lien account, denominated in Indian rupees for the benefit of the Concessionaire (The Escrow Account) **Site progress-** Handing over procedure of	Under Renovation 30 months from Financial closure

				proposed site is under progress. **Design vetting-** Presently under observation of IIT, Kharagpur. **Interception and Diversion planning status-** Right now it is under preparation by the concessionaire and will be submitted within short period of time.	
15	Kamarhati - Baranagar -Kamarhati, Mathkol, near Belgachia Metro Car Shed	60.00	–	**Financial Closure Status-** NMCG has established bank account in the name of M/S NMCG Howrah STP ESCROW ACCOUNT (Account No: 344902010108587, IFSC Code: UBIN0534498), which shall be an interest bearing, no lien account, denominated in Indian rupees for the benefit of the Concessionaire (The Escrow Account) **Site progress-** Handing over procedure of Proposed site is under progress. **Design vetting-** Presently under observation of IIT, Kharagpur. **Interception and Diversion planning status-** Right now it is under preparation by the concessionaire and will be submitted within short period of time.	Under Renovation 30 months from Financial closure
16	Berhampore Murshidabad	3.7	-	Non-Operational	Not Complied
17	Mahananda Left Bank, Siliguri	15	-	Non-Operational. DPR has been vetted by KMDA,SJDA is going for Tendering on 11/02/21	Not Complied

18	Jorapani&Fules wariRiver, Siliguri	24	-	Non-Operational. DPR has been vetted by KMDA,SJDA is going for Tendering on 11/02/21	Not Complied
Total		**334.96**	**37.5**		

Details of under Construction STPs in the State

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
1.	Joka	45	Physical progress: 15% Piling under progress	Trunk sewers are being laid.	March 2022
2.	M.G. Road	40	Physical progress: 13% Land development, chlorination building & boundary wall under progress	Trunk sewers are being laid.	March 2022
3.	Budge-Budge	9.33	Overall physical progress achieved as on 31.1.2021 is **94.8%.** (Trial run Stage) TOTAL FOR RCC PIPELINE - 1.88 KM. out of 3.39 KM.	Fund allotment status for House to House Connections - allotment of 13,200 nos. households of Rs. 16,96,17,307.00 received from the State Govt. Fund allocated to the municipality to immediately start the tender process.Tender invited and date of opening on 11.02.2021.	Project is presently under the final trial run stage. December, 2020
4.	Kanchrapara	18.00	Overall physical progress achieved as on 31.1.2021 is **30%.** 1. Construction of STP- 30%	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.	New Town, Rajarhat Action Area- IIID	24	98% Commissioning awaited after 3rd party inspection.	There is a community sewage system which is supposed to transport the sewage to the plant.	December 2020
6.	Tarapith	4.25	25%	Provision of only Institutional Connection (90%)	May 2021
7.	Ghusighata	170	0%	Feasibility for setting up of STP will be completed within Mar. 2021.	May 2022
8.	Nabadwip	9.50	Overall physical progress achieved as on 31.1.2021 is 62%.	Execution of I&D structure is under progress and there no	June, 2021

				provision of house sewer connection in the scope of the work	
9.	Baharampore	3.50	Vetted Sewerage Network drawing submitted and approved by the competent authority .The survey and design work for setting up STP will start after the finalization of alternative land is under process or after getting the present land free from local disturbances.	I&D structure work has not yet started and there is no provision of House sewer connection.	May, 2022
10.	Raghunathganj	5.00	Approved Vetted Design &Drawing of 5 MLD STP and approved design and drawing of 5 MLD STP of Raghnathganj Town submitted. DWC sewer line-274m length of laying completed	I&D structure work has not yet started and there is no provision of House sewer connection.	May, 2022
11.	Jangipur	8.00	Approved Vetted Design &Drawing of 8MLDSTP submitted. Sewerage Network design submitted and approved and laying of sewer line about 982 m length completed till date.Piling works for constructing 8.00 MLD STP ofJangipur town started.	I&D work just started but there is no provisio of House sewer connection in the scope of work.	May, 2022
Total		**337**			

Details of proposed STPs in the State

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage / Under Tendering / Work to be Awarded)	Likely Date of Completion
1.	Wireless Park	15.3	Tender process ongoing under Tolly'sNullah Rehabilitation Project. Technical bid opened on - 10/12/2020 Technical bid evaluation is in progress.Department has sought opinion of Finance Department regarding relaxation of EMD as notified by NMCG.Decision awaited.	30months for from date of contract agreement.
2.	Sukhapukur	5.06		
3.	Birji Road	5.7		
4.	L.S.10	16	• Draft DPR submitted to NMCG on 31/03/2019 for approval & extension of time (EOT) • NMCG approved EOT on 08/09/2020 up to 22/02/2021. • Soft copy of the draft DPR resubmitted on 14/09/2020. Hard copy submitted on 01/10/2020. • Virtual meeting on draft DPR held on 16/12/2020. • Formal observation/Approval is yet to be received.	52 months from the date of issuance of work order.
5.	DhankhetiNikashi	25		
6.	BhangaKhal, Garden Reach	35		
7.	Rania	23	Under tendering. Re-tendering done on 30.09.2020 Tender opened: 27/11/2020. Financial bid opened on 21/01/2021. Evaluation in progress	24 months from the date of issuance of work order.
8.	Borough-XII	70	To be finalized based on Implementation of future loan or from own resources of KMC.	Not yet finalized.
9.	Sreenathpur	4	Lowest bidder rate has been recommended for acceptance to departmental tender committee after getting approval of the Tender from the DTC, LOA will be issued.	December, 2022
10.	Chaitanyaghat	5.2		
11.	Silver Jubliee Road	2.6		
12.	Maheshtala	35.00	LOA issued 25.01.2021. On receipt of LOA lowest bidder M/S Viswaraj Environment Pvt ltd has requested to TIA for waiving off addl. Performance security and they have proposed	24 months from Financial closure

			to shift Rs. 30,26,70,000/- from Bid project cost to O& M cost while keeping the accepted contract value of Rs. 273,52,51,130/- (excluding cost of land).File is placed to NMCG for necessary direction.	
13.	Hooghly-Chinsurah	26.50	Tender is in progress. Last date of Bid submission 17.02.2021.	18 month after signing of form of contract.
14.	North-Barracpore	11.25	Presently under DPR Stage. Compliance of NMCG's observations is under process.	
15.	North-Barracpore	6.5		
16.	Dhuliyan	5.68	Fresh tender invited after modification in bid document, opening date-06/01/2021 Timeline for Preparation of DPR-February-2021	
17.	Kalna	2.99	2nd call invited on 29 / 09 / 2020, Opening- 10 / 11 / 2020. Timeline for Preparation of DPR- February-2021	
18.	Santipur	16.60	Earlier DPR prepared by KMDA is under consideration. Timeline for Preparation of DPR-February-2021	
19.	Chakdah	5.06	2nd call invited, Tender opening date: 22/01/2020 Timeline for Preparation of DPR- February-2021	
20.	Haldia	24.29	2nd call opened on I2-11-2020, Evaluation under process. Timeline for preparation of DPR- February-2021	
21.	Raiganj	10.52	Fresh tender invited after modification in bid document, opening dare-06/0l/2021 Timeline for Preparation of DPR-February-2021	
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 pis-ciculture 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 which has been designated as conservation area and treating around 910 MLD of sewage.

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

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

IV. Details of IndustrialPollution:

No. of industries in the State (Red = 3927, Orange = 12332)	=16259
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)
• ActionplantobridgegapbetweenInstalledCapacityandCurrentUtilizationof processing facilities (if Gap >20%)	11930 TPD RFP floated for integrated solid waste management in 82 ULBs. Inter-departmental land transfer is in progress in 22 ULBs.

	In rest 21 ULBs wastes are segregated and process has been initiated for its treatment as per rules.
• No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)	Setting up of one plant ofcapacity 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	2938 2820 wards (96%) 852 wards (29%)
• 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 Biomethanation plant. At Kamarhati 180 TPDCP&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 ofthe rivers	1 (3.2 acre) Naihati
• No. of drains falling into river sand no. of drains having floating racks / screens installed to prevent solid waste from falling into the rivers	402 (400)

Status of ULB wise Management of Solid Waste

Sl. No.	Name of ULBs	Total MSW generation in TPD	Total MSW being Processed in TPD	Existing MSW Facilities	Utilization Capacity of the existing MSW Facilities	Proposed MSW Facilities & Completion Timeline
1	Alipurduar	35.65				Setting up of Compost Plant (CP) / Bio methanation / Material Recovery Facility (MRF) / Sanitary Landfill (SLF) as per SWM Rules, 2016 are in progress and expected completion timeline is December, 2021
2	Arambagh	30.25				
3	Asansol MC	654				
4	Ashoknagar-K_garh	79.65				
5	Baduria	13.62				
6	Baidyabati	68	48	CP	48	
7	Balurghat	75				
8	Bankura	75				
9	Bansberia	39				
10	Baranagar	150				
11	Barasat	130				
12	Barddhaman	140				
13	Barrackpore	50				
14	Baruipur	17				
15	Basirhat	29				
16	Beldanga	17.75				
17	Berhampore	90				
18	Bhadreswar	23				
19	Bhatpara	205	78	CP	78	
20	Bidhan Nagar MC	400				
21	Birnagar	16.77				
22	Bishnupur	59.2				
23	Bolpur	45.44				
24	Bongaon	65				
25	Budge Budge	40				
26	Buniadpur	30				
27	Chakdah	54.12				
28	Champdany	19	19	CP	19	
29	Chandannagore MC	55.5				
30	Chandrakona	7.8				
31	Contai	45				
32	Cooch Behar	45.69				
33	Cooper's Camp	13.86				
34	Dainhat	48.51				
35	Dalkhola	8.22				
36	Dankuni	25				
37	Darjeeling	55.11				
38	Dhulian	46.42				
39	Dhupguri	11				

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
40	Diamond Harbour	18				
41	Dinhata	20				
42	Domkal	100				
43	Dubrajpur	47.87				Setting up of Compost Plant (CP) / Bio methanation / Material Recovery Facility (MRF) / Sanitary Landfill (SLF) as per SWM Rules, 2016 are in progress and expected completion timeline is December, 2021
44	Dum Dum	62.1				
45	Durgapur MC	402.63				
46	Egra	19				
47	English Bazar	190				
48	Gangarampore	30.56				
49	Garulia	35				
50	Gayeshpur	60				
51	Ghatal	26.52				
52	Gobardanga	17.7				
53	Gushkara	26				
54	Habra	72				
55	Haldia	80	70	CP+MRF	70	
56	Haldibari	4				
57	Halisahar	52				
58	Haringhata	0.01				
59	Hooghly Chinsurah	80				
60	Howrah MC	910	60	CP	60	
61	Islampur	21.73				
62	Jainagar-Mazilpur	18	6.2	WTE	6.2	
63	Jalpaiguri	55				
64	Jangipur	40				
65	Jhalda	7.56				
66	Jhargram	44				
67	Jiaganj-Azimganj	20.53	3	MRF	3	
68	Kaliaganj	59				
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				

Sl. No.	Name of ULBs	Total MSWgeneration in TPD	Total MSWbeing Processed in TPD	Existing MSW Facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
80	Kolkata MC	4500	1207.7	CP+MRF	1207.7	
81	Konnagar	32	5.5	CP+MRF	5.5	
82	Krishnanagar	130	130	CP	130	
83	Kurseong	11				
84	Madhyamgram	58				
85	Maheshtala	184	8.2	CP	8.2	
86	Mal	14	0.5	CP	0.5	
87	Mathabhanga	9.79				Setting up of Compost Plant (CP) / Bio methanation / Material Recovery Facility (MRF) / Sanitary Landfill (SLF) as per SWM Rules, 2016 are in progress and expected completion timeline is December, 2021
88	Mekliganj	4.69				
89	Memari	14.53				
90	Midnapore	87.3				
91	Mirik	4.2				
92	Murshidabad	30				
93	Nabadwip	53.98				
94	Naihati	100				
95	Nalhati	32				
96	New Barrackpore	29.8				
97	North Barrackpore	59				
98	North Dum Dum	165				
99	Old Malda	27.13				
100	Panihati	193				
101	Panskura	24.18				
102	Pujali	15.6				
103	Purulia	60.6				
104	Raghunathpur	11.43				
105	Raiganj	90				
106	Rajpur-Sonarpur	170	1.1	MRF+BM	1.1	
107	Ramjibanpur	7.55				
108	Rampurhat	105				
109	Ranaghat	25.89				
110	Rishra	50	5	CP	5	
111	Sainthia	32				
112	Santipur	65.22				
113	Serampore	90	10	CP	10	
114	Siliguri MC	380	70	CP	70	
115	Sonamukhi	11.7				
116	South Dum Dum	372				
117	Suri	60				
118	Taherpur	0.45				
119	Taki	21.75				
120	Tamralipta	15				
121	Tarakeswar	13.16				
122	Titagarh	65				
123	Tufanganj	14.23				
124	Uluberia	50				
125	UttarparaKotrung	90.66	40	CP+MRF	40	
TOTAL		**13708.585**	**1778.2**	**Total**	**1778.2**	

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

VI. Bio-medical Waste Management:

No. of Hospitals and Health Care Facilities	=8509
Total Bio-medical generation	=41571.4 kg / day
Status of Treatment Facility / CBMWTF	= 6 CBMWTF are operating
Treatment capacity	= 1,40,000 bed

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

VII. Hazardous Waste Management:

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

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

VIII. Plastic Waste Management:

- Total Plastic Waste Generation: around 300236.12 MT/Year (approx..)
- Treatment / Measures adopted for reduction or management of plasticwaste:
  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 Dept. 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 theDepartment:**

   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 toplastic.**

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 taken up for Jangipur drain. Necessary chemical dosing 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 treatmentProcess.	0.2
Churni	Basko Canal	Bio / Phyto remediation treatment process as interim measure taken up for Basko Canal. Work in progress.	4.28
	Sreenathpur Drain	Bio / Phyto remediation treatment process as interim measure taken up for Sreenathpur Drain. Necessary chemical dosing 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 for Midnapore for river Kansi by providing screens, sedimentation tank, followed by disinfection by chlorination at out falls of 2 nos. of drains (although 26 nos. of drains are very small out of 28 nos. identified) is proposed. Recommendation for acceptance by Department received on 27.09.2020 and work order issued on 9/10/2020. work started, 15% physical progress.	21.41
Mayurakshi	14	Primary treatment for river by providing screens, aeration followed by disinfection by chlorination at out falls of 12 nos. of drains at Suri and 14 nos. at Santhia Is proposed. For Suri-No land is available as all are private lands & municipality is not in a position to purchase right now. For Sainthia- Already construction work completed by ULB as per direction of DM, The Chief Engineer, MED had requested for the land at up stream&down stream side near the 14 nos. of out fall so that construction work may be carried out as per guideline of NGT, but no land is available.	Suri -4.04 Sainthia-2.68

River name	Polluting drain	In-situ treatment details	MLD treated
Rupnarayan	4	Primary treatment for river by providing screens, sedimentation tank followed by disinfection by chlorination at out falls of 4 nos. of drains is proposed. Recommendation for acceptance by Department received on 27.09.2020 and work order on 05.11.2020. Physical progress of work is 30%.	8.37
Jalangi	8	Primary treatment for river by providing screens, aeration followed by disinfection by chlorination at out falls of 8 nos. of drains is proposed. Letter of acceptance issued on 10 / 08 / 2020, work order issued on 25.08.2020. Site has been handed over to Agency. Work is going on and 85% work completed.	17.45
Silabati	4	Primary treatment for Ghatal for river Silabati by providing screens, sedimentation tank, followed by disinfection by chlorination at out falls of 4 nos. of drains is proposed. Work Order issued on 30.07.2020 and work started after delay due to heavy rain. 20% work completed.	3.80
Dwarekeswar	13	Primary treatment for Bankura for river Dwarkeswar by providing screens, sedimentation tank followed by disinfection by chlorination at out falls of 13 nos. of drains Is proposed. Work order issued on 07.08.2020. Work started, 50% progress achieved.	15.10
Kaljani	18	Primary treatment for Alipurduar for river Kaljani by providing screens, sedimentation tank, followed by disinfection by chlorination at out falls of 18 nos. of drains is proposed. Work order issued on 03.07.2020. Work resumed &90% physical progress achieved.	9.33
Korala	47	Primary treatment for Jalpaiguri for river Karola by providing screens and aeration arrangement at out falls of 47 nos. of drains is proposed. Work order issued on 02 / 07 / 2020 and work has started. 99% physical progress	12.81

		achieved. It will be completed by the target date of Feb 2021.	
Ganga	21	Pls refer the note given below:	

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

- CPCB has identified 56 major channels which carry most of the polluted sewage to River Ganga. We are taking time-bound steps for connecting them to STPs (existing STPs as well as proposed ones under tendering).However, there are 21 drains which pose a challenge in terms of technical feasibility. For these drains, KMDA is preparing an Action Plan within March 2021 on the basis of alternative Technologies like In- Situ Treatment, Feacal Sludge Management/Bio-Gas Plant etc.
- As per NGT's orders, in respect of the Jangipur Canal, bio-phyto remediation has been initiated successfully, as an interim measure from July 2020.

Details of Nodal Officer appointed by Chief Secretary in the State /UT:

- Principal Secretary, Department of Environment, Govt. of West Bengal

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

XII. Latest water quality of polluted river, its tributaries, drains with flow details andground water quality in the catchment of pollutedriver:

Water Quality of Polluted River Stretches of 17 rivers in West Bengal during December 2020

Priority	River	Stations	BOD (mg/l)	DO (mg/l)	Fecal Coliform (MPN/100ml)	Fecal Streptococci (MPN/100ml)	pH
I	Vidyadhari	Haroa Bridge (Upstream)	13.57	1.10	33000	130	7.40
	Vidyadhari	Malancha (Downstream)	12.50	0.90	49000	240	7.45
II	Mahananda	Siliguri (Upstream)	1.40	6.80	7000	330	6.97
	Mahananda	Ramghat (Downstream)	10.00	3.80	110000	470	6.54
III	Ganga	Tribeni	1.85	7.80	17000	330	8.01
	Ganga	Palta	2.40	7.70	13000	700	8.26
	Ganga	PaltaShitalatala	3.60	7.20	33000	1700	8.09
	Ganga	Serampore	3.60	7.50	33000	140	8.04
	Ganga	Dakshineswar	3.90	7.30	70000	220	7.65
	Ganga	Garden Reach	2.30	6.70	79000	170	6.85
	Ganga	Howrah-Shibpur	3.25	6.90	130000	220	7.22
	Ganga	Uluberia	2.00	6.70	33000	130	7.57
	Ganga	Durgachak near Pathikhali	1.10	5.31	9400	110	7.51
	Ganga	Diamond Harbour	2.00	6.80	7000	49	7.74
III	Churni	Downstream of Ranaghat Town	3.30	4.90	22000	1700	7.84
	Churni	Majhdia	2.67	3.50	17000	49	8.15
III	Dwarka	Upstream of Tarapith at	2.85	7.90	11000	63	7.94

Water Quality of Polluted River Stretches of 17 rivers in West Bengal during December 2020

Priority	River	Stations	BOD (mg/l)	DO (mg/l)	Fecal Coliform (MPN/100ml)	Fecal Streptococci (MPN/100ml)	pH
		SadhakBamdebGhat					
	Dwarka	Downstream of Tarapith, Satighat	3.25	7.50	17000	94	7.6
IV	Damodar	Dishergarh Village	2.15	8.00	3800	11	7.52
	Damodar	Downstream of IISCO	1.95	8.10	2700	12	7.57
	Damodar	Narainpur	2.25	8.20	1500	14	7.46
	Damodar	Near Mujher Mana Village	3.65	7.50	4900	33	7.06
	Damodar	Andal Upstream	1.75	8.10	1400	14	7.52
	Damodar	Andal Downstream	1.70	8.20	2000	25	7.56
	Damodar	Asansol Upstream	1.50	8.40	2100	13	7.69
	Damodar	Durgapur Upstream	1.60	8.00	2400	21	8.45
	Damodar	Raniganj Downstream	1.55	8.20	2500	33	8.03
	Damodar	Water Intake Point for Burdwan Town	2.05	8.10	2000	11	8.6
IV	Kansi	Downstream at Midnapore	0.80	9.10	7900	--	7.89
IV	Jalangi	Downstream of Krishnanagar	5.70	8.80	7000	430	8.14
IV	Mathabhanga	Gobindapur	4.50	3.90	17000	130	7.93
V	Barakar	Asansol	2.00	8.30	3200	25	7.41
V	Silabati	Ghatal (Downstream)	1.30	8.50	6300	--	7.18
V	Rupnarayan	Geonkhali	1.75	7.00	5800	--	8.06
	Rupnarayan	Kolaghat (Downstream)	1.50	7.60	6300	--	7.46
V	Dwarkeswar	Bankura Town	1.95	8.20	1700	24	7.48
V	Mayurakshi	Suri Town	1.50	8.30	1400	12	7.68
V	Kaljani	Downstream of Alipurduar	1.60	7.20	2100	17.00	7.40
V	Karola	Downstream of Jalpaiguri	1.60	7.40	2100	34.00	6.90
V	Teesta	At Jalpesh	1.40	6.40	5000	4.00	7.02
	Teesta	At Sevoke	1.20	7.10	5000	34.00	7.02

XIII. Ground waterregulation:

River	Groundwater regulation
Vidyadhari	• Groundwater extraction is regulated according to West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005 by SWID,GoWB. • Water meter without telemetry system is installed at industrial tube well permitted by SWID. • Groundwater Resources Estimation and Assessment (2016-2017) is done

	as per GEC'97 guidelines. • Groundwater level (GWL) monitoring is done periodically four times a year (Jan, April, Aug & Nov). A few manual GW Level Monitoring stations is converted to Real-Time GW Level Monitoring stations by installation of Digital Water Level Recorder(DWLR).
Mathabhanga Dwarka	• 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. □ **Dwarka river stretch:** *Semi-Critical*- Rampurhat-II (Birbhumdist.) □ **Mathabhanga river stretch:** *Semi-Critical*- Deganga (North 24 Parganas dist.) • Periodic groundwater sampling for its Physio-chemical tests is done twice a year (April & Nov).
Damodar Barakar	• 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. • 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-chemicaltestsfor52GWsamplescollectedduringPre-mosoon'20period,from or nearby GW monitoring stations under the blocks along polluted stretch of river Churni have been completed partially.
Kansi Mayurakshi	• Water meter without telemetry system is installed at industrial tube well permitted by SWID. • Groundwater Resources Estimation and Assessment (2016-2017) is done as per GEC'97 guidelines. • Groundwater level (GWL) monitoring is done periodically four times a year (Jan, April, Aug & Nov). A few manual GW Level Monitoring stations is converted to Real-Time GW Level Monitoring stations by installation of Digital Water Level Recorder (DWLR). GWL database for Aug'20 (monsoon) has been generated. • All are "safe" categorized block along polluted stretches of Kansi, Mayurakshi, Rupnarayan, Jalangi River except the following Blocks. □ **Kansi RiverStretch:** *Semi-Critical*- Keshpur, Debra (PaschimMedinipurDist) *Critical*-Panshkura (PurbaMedinipur dist.) □ **Mayurakshi RiverStretch:**
Rupnarayan Jalongi	*Semi-Critical*- Suti-I (Murshidabad dist.), Labhpur (Birbhum dist.) □ **Jalangi River Stretch:** *Semi-Critical*- Berhampur, Nowda (MurshidabadDist), Tehatta-II, Chapra (Nadia dist.) *Critical*- Domkal (Murshidabad dist.), Karimpur-II, Tehatta-I, Nakashipara, Krishnagar-II, Krishnagar-I (Nadia dist.) Ground water sampling for its Physio-chemical tests is done twice a year (April & Nov).
Silabai Dwarekeswar Kaljani Karola	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).

Mahananda Teesta	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 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).

XIV. Good irrigation practices being adopted by the State:

River	Stretch of the river	Good irrigation practices
Dwarka	Tarapith to Sadhak BamdebGhat	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 andcanal 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 JalpaiguriSadar block are irrigated through the canal system of Teesta Barrage Project.

XV. Rain Water Harvesting:

River	Roof Top Rainwater Harvesting and Reuse and / or Artificial Recharge to Groundwater
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)

XVI. Demarcation of Flood plain and removal of illegal encroachments:

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 Vindhadhari 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 takenup 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. 3.15Crore 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 takenup 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 takenup 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.
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 thisstretch 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.

XVII. Maintaining minimum e-flow of river:

Rive r	Maintaining minimum environmental flow of river
Vidyadhari	The river is a perennial river. There is no regulating structure exists on this river for regulationof 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 overDamodar 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. Thisrelease 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.

XVIII. Plantation activities along therivers:

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	

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 KalyaniKrishiViswaVidyalaya.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.

XXI. 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.

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

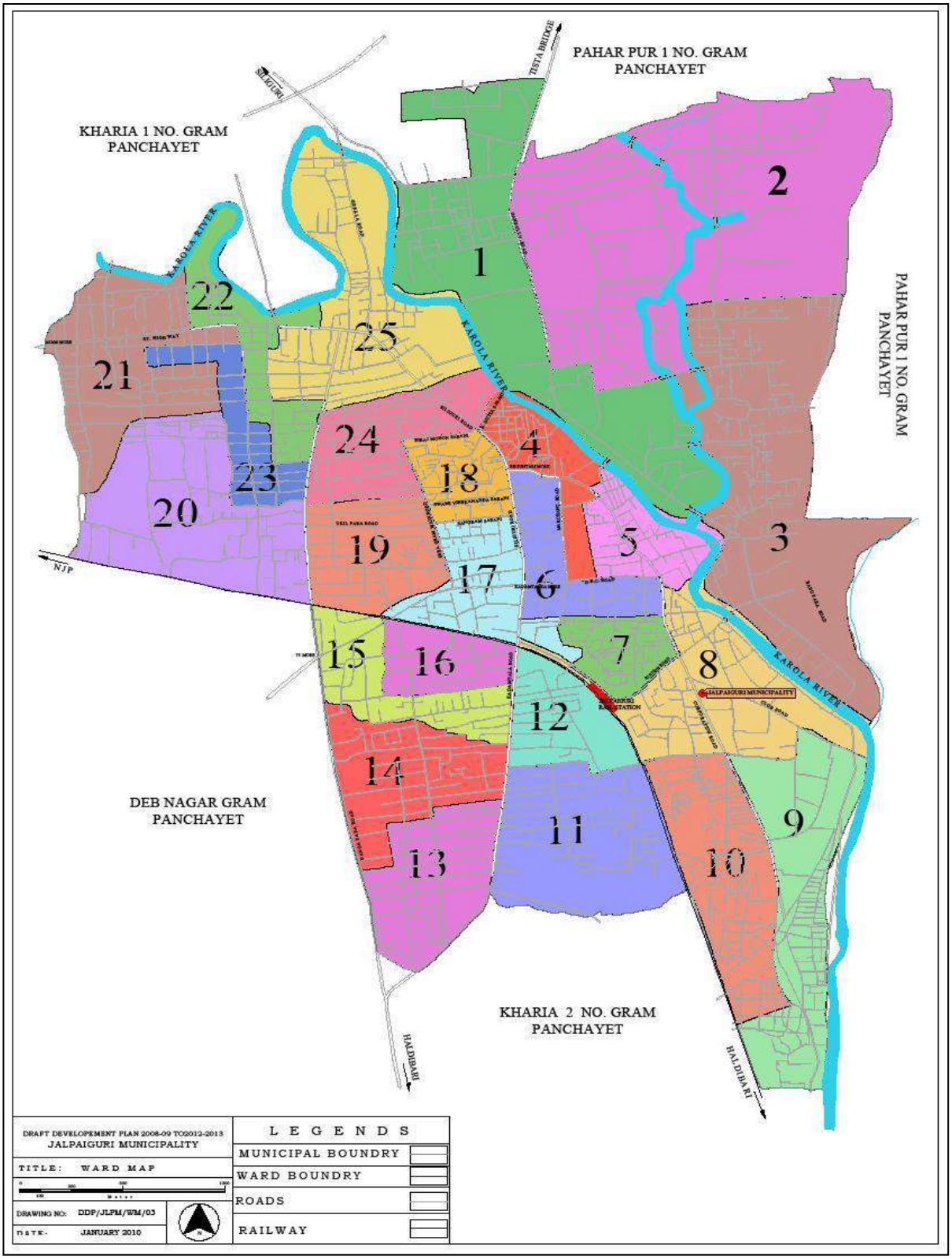
XXIII. Regulation of Mining Activities in the State /UT:

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

XXIV. 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.

Annexure - I



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: 873 –

Date: 10.02.2021

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

To: The Chief Executive Officer
Kolkata Metropolitan Development Authority

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

Madam,

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

Yours faithfully,

10/2/21

Mission Director, MNB & e.o. Joint Secretary

Copy enclosed: As stated

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

Annexure - I

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.

Annexure - II

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.

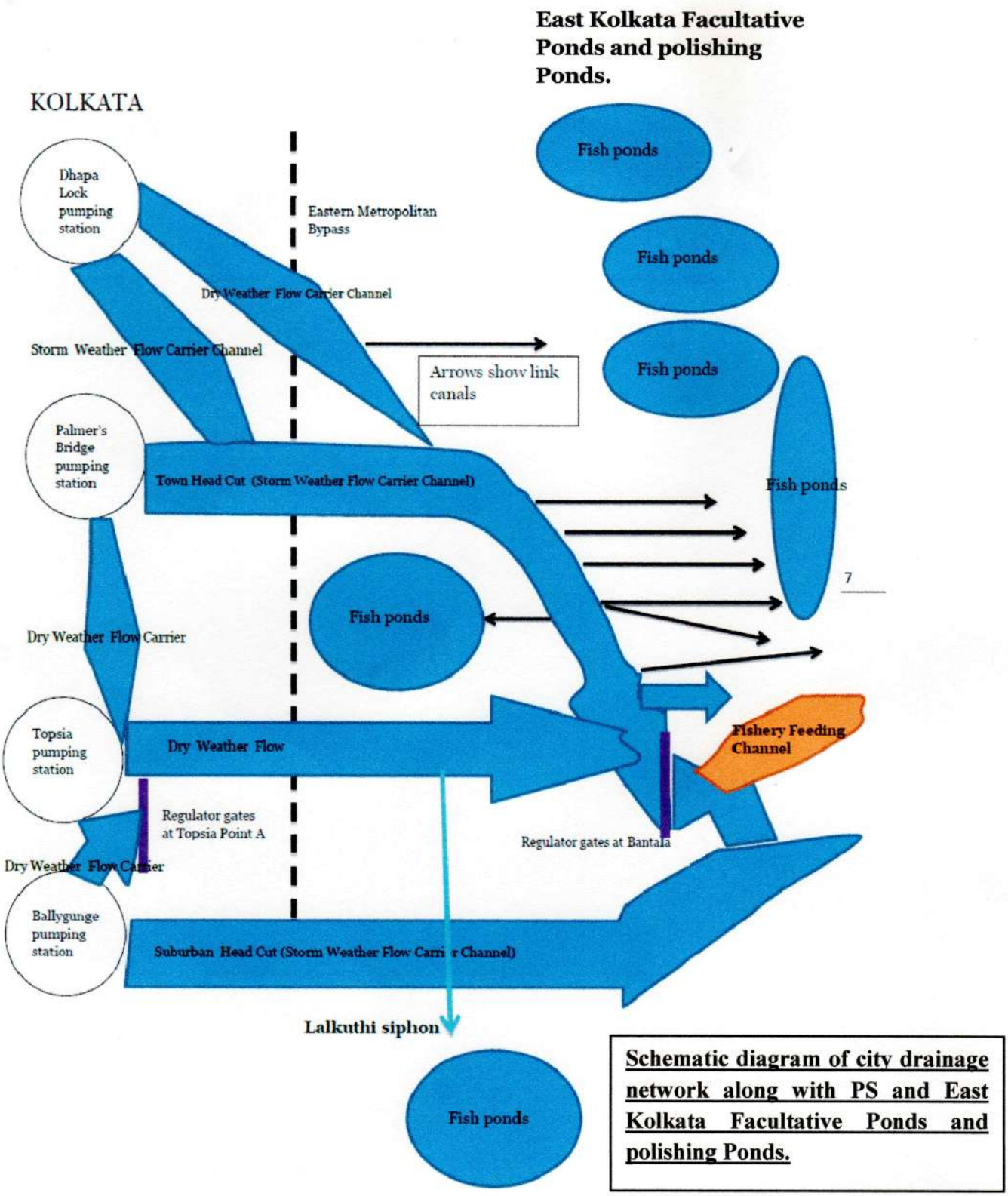
The Kolkata System covers ward no. 7-12,15-28,36-55,60-64,68-70,71-73, 83-98 and Part of Ward 56,57,69,55,71,75 of the area of Bagbazar, Shyambazar, Sovabazar, Taltola, Barabazar, Beniapukur, Entally, Ballygunge etc. The Maniktala system covers ward no. 13,14 and 29-35 of the area of Maniktala, Ultadanga, 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 though 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, Chingrighata 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	Chingrighata 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**

Director General
Sewerage & Drainage



Schematic diagram of city drainage network along with PS and East Kolkata Facultative Ponds and polishing Ponds.

Above quantum of sewage receives it's treatment which happens by recovering the nutrients inherent in domestic sewage through an intregrated 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.

09/02/21

Director General
Sewerage & Drainage