Government of West Bengal
Department of Environment

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

No. EN/853/3C-01/2019 Dated, Kolkata 24th June, 2020

From :: Rabijyoti Majumdar, IAS
Commissioner
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 – June, 2020

Sir,

Enclosed please find the present status report in respect of polluted river stretches in the State of West Bengal as per your prescribed proforma.

This is for your information and necessary action.

This has approval of Principal Secretary, Environment Department.

with regards

R. Majumdar

Rabijyoti Majumdar
Commissioner
Department of Environment

Monthly Progress Report in connection with O.A. 673/2018

Asansol Durgapur Development Authority Submitted in: June 2020

Activity to be monitored Timeline Compliance status	**River Damodar**	**River Barakar**
1. Ensure 100% treatment of sewage atleast in-situ remediation Timeline: 31.03.2020	• 11 Drainage outfall channels indentified discharging into the river. • Action for Bio / Phyto remediation for the 11 drains shall be taken up as an interim measure. • Laboratory test on Quality of waste water of all drainage channels have been conducted by WBPCB. Timeline: 30.06.2021	• 7 Drainage outfall channels indentified discharging into the river. • Action for Bio / Phyto remediation for the 7 drains shall be taken up as an interim measure. • Laboratory test on Quality of waste water of all drainage channels have been conducted by WBPCB. Timeline: 30.06.2021
Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STP must be ensured Timeline: 31.03.2020	DPR shall be prepared under the active initiation of the KMDA. Timeline: 30.04.2021	DPR shall be prepared under the active initiation of the KMDA. Timeline: 30.04.2021
2. Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning Timeline: 31.03.2021	• DPR is under process. Action for Bio / Phyto remediation for the aforesaid 18 drains has been considered necessary in the mean time as an interim measure. Action shall be taken in the above direction. • Jadavpur University shall be requested to provide technical advice in respect of selection of technically feasible and economically viable technology for STP. Timeline: 31.05.2022	• DPR is under process. Action for Bio / Phyto remediation for the aforesaid 18 drains has been considered necessary in the mean time as an interim measure. Action shall be taken in the above direction. • Jadavpur University shall be requested to provide technical advice in respect of selection of technically feasible and economically viable technology for STP. Timeline: 31.05.2022
3. Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary level • Chief Secretaries may have an accountable person attached in their office for this purpose Timeline: 22.01.2020 • Monitoring at state level must take place Timeline: Fortnightly commencing 21.12.2019	Environment Monitoring Cell at the office of the Chief Secretary has been constituted. CEO, KMDA is the nodal officer for liquid waste management. SUDA is the nodal agency for solid waste management.	Environment Monitoring Cell at the office of the Chief Secretary has been formed. CEO, KMDA is the nodal officer for liquid waste management. SUDA is the nodal agency for solid waste management.

Activity to be monitored Timeline Compliance status	**River Damodar**	**River Barakar**
4. Progress report may be furnished by the state/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Progress report was sent on 23.03.2020 just before Lockdown.	Progress report was sent on 23.03.2020 just before Lockdown.
5. Progress Report may be comprised of details along with completion time line on :		
i. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment ii.	11 Drainage outfall channels identified discharging into the river.	7 Drainage outfall channels identified discharging into the river.
iii. <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, Gap Analysis, Proposed treatment facilities along with completion timeline	Total GAP – (Within AMC Area) 175 MLD (Within DMC Area) 66.18 MLD The KMDA has initiated to prepare the DPR and it is under process. Timeline: 31.05.2022	
iv. <u>Status of CETPs</u> Details of existing CETP and ETP infrastructure, Gap analysis, proposed along with completion timeline, No. of industries and complying status	All the industries have active ETP and they have complied with the effluent discharge standard and hence there is no GAP. However identification of new industries are under process. Existing STP maintained by the following organizations in Durgapur i) DMC (1 MLD), ii) DSP (6 MLD), iii) DPL (5 MLD), iv) ABL (0.5 MLD), v) DVC (1.32 MLD), Total – 13.82 MLD Capacity of the proposed STP within DMC (2035) = 80 MLD Capacity of Existing STP / ETP=13.82 MLD GAP Analysis(DMC) = 66.18 MLD Capacity of the STP within AMC (2035)= 175MLD Capacity of Existing STP / ETP= 0 MLD GAP Analysis(AMC) = 175 MLD	

Activity to be monitored Timeline Compliance status	**River Damodar**	**River Barakar**
v. <u>Status of solid waste management & details of processing facilities</u> Details of existing infrastructure, Gap analysis, proposed facilities along with completion time line	A Transaction advisor has been selected for implementation of processing plant on PPP mode and its is under the designing stage An Agency has been selected for preparing of DPR on integrated SWM. Distribution of Blue Bins & Green Bins has already been started for segregation of Solid Waste at source after conducting necessary awareness program. Railway, Restaurants, Industries, Commercial places, Markets, Housing producing more than 100 kg per day shall be asked to setup their own processing units by themselves for disposals. CMOH under the department of health shall be asked to employ suitable empaneled agency of the health Dept. for disposal of Bio-Medical waste & COVID waste. Written communication was sent on 10th June, 2020. Tender formalities for preparation of DPR on SWM, AMC & DMC are under process and under the active initiation of the SUDA. Timeline: June,2020 to July, 2022	
vi. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river	At Mujher Mana BOD = 2.85 mg/ltr. FC = 4700 MNP/ 100 mltr. Total Coliform = 7000 MNP/100 mltr. D.O. = 7.9 mg/ltr.	BOD = 3.9 mg/ltr. F.C. = 4600 MNP/100 mltr. Total Coliform = 9400 MNP/100 mltr. D.O. = 8.3 mg/ltr.
vii. Preventing dumping of waste and scientific waste management including biomedical wastes, plastic wastes and decentralizing waste processing, including generated from hotels, ashrams etc.	A transaction advisor has been selected for implementation of processing plant on PPP mode and its is under the designing stage An Agency has been selected for preparing of DPR on integrated SWM. Distribution of Blue Bins & Green Bins has already been started for segregation of Solid Waste at source after conducting necessary awareness program. Railway, Restaurants, Industries, Commercial places, Markets, Housing producing more than 100 kg per day shall be asked to setup their own processing units by themselves for disposals. CMOH under the department of health have being employing suitable empanelled agencies of the health Dept. for collection, transportation and disposal of Bio-Medical waste & COVID waste. Tender formalities for preparation of DPR on SWM, AMC & DMC are under process and under the active initiation of the SUDA.	
viii. Ground water regulation	Water meter without telemetry system is install at industrial tube well. Monitoring of ground water resources have been done and regulation of ground water extraction by the industries has been maintained as per GEC norms. There is no exploited and critical blocks present in Paschim Bardhaman. For Roof top Rain Water Harvesting for surface storage a pond of size 150'x 50'x6'8" need to be maintained by the industries as a pre-requisite before issuing any permit under WBGR act 2005. Periodic water assessment is done twice a year.	

Activity to be monitored Timeline Compliance status	**River Damodar**	**River Barakar**
ix. Adopting good irrigation practices	Micro irrigation with supplementary water management activities. Good agriculture practices, crop diversification, good irrigation practices and soil & water conservation are the major considerations of the proposed scheme undertaken by the Agriculture Dept. Timeline: 2019 – 2022(3 Years) A project name West Bengal Major Irrigation & Flood Management has been taken up by I& WD, Govt. Of West Bengal with the Financial Assistants of the World Bank and AIIB to enhance irrigation command to the tune of 3 lack 76 thousand ha. with a view to mitigating food damage in the lower Damodar basin. Timeline: 2025	
x. Protection and management of Flood Plain Zone	River specific action plan stressed on (1) Flood Pain Zone Management and good irrigation practice. Timeline: 2025	
xi. Rain water harvesting	For Roof top Rain Water Harvesting for surface storage a pond of size 150'x 50'x6'8" needs to be maintained by the industries as a pre-requisite before issuing any permit under WBGR act 2005. Rain water harvesting and Re-use of artificial recharge to the ground water schemes at Durgapur Institute of Advance technology & Management Campus is takenup by the Planning division SWID, Kolkata.	
xii. Maintaining minimum environmental flow of river	The environmental flow is maintained through the release of water from the Maithon Dam.	The environmental flow is maintained through the release of water from the Panchet Dam.
xiii. Plantation on both sides of the river	Massive advance work include raising of seedlings, planting of trees and its regular maintenance is undertaken by Forest Dept. Since July, 2020. An Amount of 62,16,385/- has been earmarked for this project. A total of 394011 Plants were planted Timeline: Sept. 2020 A total of 394011 Plants were planted covering an area of 580 ha. of land and those include both horticulture & social forestry species, and this scheme has been executed by P&RD Dept. Gov. Of West Bengal. Timeline: 2020-21 (Horticulture and Plantation of 302.5 ha.)	
xiv. Setting up biodiversity parks on flood plains by removing encroachment	Govt. Of West Bengal has been conceived of a plan to set up Bio-Diversity Park at Every Block from the ensuing Financial Year to ameliorate environmental condition.	

Monthly Progress Report in connection with O.A. 673/2018

Kolkata Metropolitan Development Authority Submitted in: June 2020

Activity to be monitored Timeline Compliance status	**River Ganga**	**River Churni**
1. Ensure 100% treatment of sewage atleast in-situ remediation Timeline: 31.03.2020	56 drains identified discharging into the river. 55 drains are in tidal zone. However, Bio/Phyto remediation for 6 drains already started as pilot project. Tender for Bio/Phyto-remediation and/or in-situ treatment work at Jangipur Drain has already been invited. Extended last date of Bid submission 15th June 2020.	2 (Two) nos. drains are identified at Ranaghat for interim measure - 1. Sreenathpur 2. BaskoKhal Tender for Bio/Phyto - remediation work for these drains have been invited by KMDA. Tender was invited on February, 2020. At present, Technical and Financial evaluation has been completed and processed for Financial Sanctioned from the competent Authority.
Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STP must be ensured Timeline: 31.03.2020	Under KMDA Jurisdiction: STP operational: 16 STP under construction: 9 STP under different stages of up-gradation (Non-operational): 6 STP under HAM: 3 STP under tendering/DPR stage: 2 Under KMC Jurisdiction: STP operational: 3 STP under construction: 3 STP under different stages of up-gradation (Non-operational): 2 STP under tendering/DPR stage: 7 Under PHE Jurisdiction: STP operational: 4 STP under different stages of up-gradation (Non-operational): 2	DPR prepared. Administrative approval and financial sanction accorded by GoWB. Accordingly tender process initiated. Last date of extended Bid Submission of the Tender is 15th June 2020.
2. Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning Timeline: 31.03.2021	31.12.2023	Proposed STPs - 1] 4 MLD STP (with SBR Technology) at Sreenathpur. 2] 5.2 MLD STP (with SBR Technology) at Chaitanyaghat 3] 2.6 MLD STP (with SBR Technology) at Silver Jubliee Road Timeline of completion : 31.12.2023

Activity to be monitored Timeline Compliance status	**River Ganga**	**River Churni**
3. Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary level • Chief Secretaries may have an accountable person attached in their office for this purpose Timeline: 22.01.2020 • Monitoring at state level must take place Timeline: Fortnightly commencing 21.12.2019	Environment Monitoring Cell at the office of the Chief Secretary has been constituted. CEO, KMDA is the nodal officer for liquid waste management. SUDA is the nodal agency for solid waste management.	Environment Monitoring Cell at the office of the Chief Secretary has been formed. CEO, KMDA is the nodal officer for liquid waste management. SUDA is the nodal agency for solid waste management.
4. Progress report may be furnished by the state/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Progress report was sent on 23.03.2020 just before Lockdown.	Progress report was sent on 23.03.2020 just before Lockdown.
5. Progress Report may be comprised of details along with completion time line on :		
i. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment	DhankhetiKhal, Tolly's Nullah &ChitpurGhat/ Circular Canal are amongst the 56 priority drains discharging to river Ganga. Dhankheti Khal is having tidal impact. Presently Bio/ Phyto Remediation will be done on a pilot basis to check the feasibility of this approach in the context of high tidal flow scenario of lower Gangetic region.	2 (Two) nos. drains are identified at Ranaghat for interim measure - 1. Sreenathpur 2. Basko Khal Tender for Bio/Phyto - remediation work for these drains have been invited by KMDA. Tender was invited on February, 2020. At present, Technical and Financial evaluation has been completed and processed for Financial Sanctioned from the competent Authority.
ii. <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, Gap Analysis, Proposed treatment facilities along with completion timeline	**Under KMDA Jurisdiction:** 1]Total Gap in MLD : 47.72 MLD for KMDA **For KMC** –23.94 MLD Additional STP will be set up in consultation with NMCG.	Present Sewage generation = 10.14 MLD Projected Sewage Generation =11.6 (2035) Proposed capacity of STP = 11.80 MLD (Under tendering stage) with Interception & Diversion network in Ranaghat Town.

Activity to be monitored Timeline Compliance status	**River Ganga**	**River Churni**
iii. <u>Status of CETPs</u> Details of existing CETP and ETP infrastructure, Gap analysis, proposed along with completion timeline, No. of industries and complying status		Survey work for identification of water polluting industries is being taken up.
iv. <u>Status of solid waste management & details of processing facilities</u> Details of existing infrastructure, Gap analysis, proposed facilities along with completion time line	Report enclosed as **Annexure-A**	D 2 D collection of solid waste is expected to be achieved within March 2020. Waste segregation at source is expected to be achieved within October 2020 Present generation of waste in town is 26 TPD. Establishment of waste processing facility including SLF for town will be completed following the timeframe as stipulated in Rule 22 of SWM Rule 2016
v. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river	BOD = 4.35 mg/l FC=170000 MPN/100 ml At Dakshineswar (May. 2020)	BOD = 8.45 mg/l FC=8000 MPN/100 ml At Ranaghat (May. 2020)
vi. Preventing dumping of waste and scientific waste management including biomedical wastes, plastic wastes and decentralizing waste processing, including generated from hotels, ashrams etc.	**Bio-medical waste Management** 7 (seven) nos. of CBMWTSDF (Common Bio-medical Waste Treatment,storage and Disposal Facilities) are in operation and another 6 (Six) nos. CBMWTSDF are in pipeline. **Plastic waste Management** 1. Construction of MRF measuring area of 1.00 Hectare at Dhapa dumpsite is in pipeline. Proposed timeline: December 2020	One common BMW treatment facility is in operation.
vii. Ground water regulation	1) The installation of Water Meter with telemetry system at Industrial Tube Wells for monitoring of real-time GW withdrawal is in progress. 2) The implementation of Real-Time GW Level monitoring system is in progress. Present water supply under KMC jurisdiction – Treated surface water – 94% Ground water – 6%	1. Water meter without telemetry system is installed at industrial tubewell. 2.Physio-chemical quality of Ground Water (GW) samples collected from GW monitoring nullahs during pre-monsoon and post monsoon period is tested every year.
viii. Adopting good irrigation practices	Present status 33% (Achieved)	Present status 33% (Achieved)
ix. Protection and management of Flood Plain Zone	In left bank, 0.135 km bank protection work of Rs.2.61 Crore is under running and 1.045 km bank protection work	0.5 km bank protection work of Rs. 1.56 Crore will be taken up during 2020-21, by which 2000 people in 98 Ha

Activity to be monitored Timeline Compliance status	**River Ganga**	**River Churni**
	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.	of areas may be benefitted.
x. Rain water harvesting	Out of 102 nos. RWHS, 25 nos. have already been completed. The remaining are in progress. The project has been undertaken jointly by WBPCB and P& RD Dept. under MGNREGA.	
xi. Maintaining minimum environmental flow of river	The river is a perennial river. The environmental flow is maintained through the release from Farakka barrage throughout the year.	Hanskhali, Krishnaganj and Ranaghat - 0.5 KM bank protection work to prevent erosion of the right bank at Bapujinagar GP, Hanskhali Nadia which will help to maintain e-flow. Proposed timeline : 31-3-2021 (estimation stage)
xii. Plantation on both sides of the river	Advance work (raising of seedlings) started in January 2020 and will continue upto June 2020 This project is implemented by Forest Dept. Beside Plantation made are 11,922 in 2019 in KMC area, total number of shrubs and hedges planted in different gardens and parks is about 20,000.	Plantation has been done in a massive way on both sides of the river and executed by P&RD Dept.
xiii. Setting up biodiversity parks on flood plains by removing encroachment	GoWB is going to set up Biodiversity park at every block from the next financial year.	GoWB is going to set up Biodiversity park at every block from the next financial year.

Monthly Progress Report in connection with O.A. 673/2018

Municipal Engineering Directorate — Submitted in: June 2020

Activity to be monitored Timeline Compliance status	**River Kansi**	**River Mayurakshi**	**River Rupnarayan**	**River Jalangi**
1. Ensure 100% treatment of sewage at least in-situ remediation Timeline: 31.03.2020	Primary treatment will be completed by 31.03.2021	Primary treatment will be completed by 31.03.2021	Primary treatment will be completed by 31.03.2021	Primary treatment will be completed by 31.03.2021
2. Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STP must be ensured Timeline: 31.03.2020	Primary treatment will be sufficient as BOD level is 2.90 mg/l (Jan. 2020)	Primary treatment will be sufficient as BOD level is 1.45 mg/l (Jan. 2020)	Primary treatment will be sufficient as BOD level is 2.45 mg/l (Jan. 2020)	Primary treatment will be sufficient as BOD level is 2.65 mg/l (Jan. 2020)
3. Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning Timeline: 31.03.2021				
4. Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary level • Chief Secretaries may have an accountable person attached in their office for this purpose Timeline: 22.01.2020 • Monitoring at state level must take place Timeline: Fortnightly commencing 21.12.2019	Environment Monitoring Cell at the office of the Chief Secretary has been constituted. CEO, KMDA is the nodal officer for liquid waste management. SUDA is the nodal agency for solid waste management.	Environment Monitoring Cell at the office of the Chief Secretary has been constituted. CEO, KMDA is the nodal officer for liquid waste management. SUDA is the nodal agency for solid waste management.	Environment Monitoring Cell at the office of the Chief Secretary has been constituted. CEO, KMDA is the nodal officer for liquid waste management. SUDA is the nodal agency for solid waste management.	Environment Monitoring Cell at the office of the Chief Secretary has been constituted. CEO, KMDA is the nodal officer for liquid waste management. SUDA is the nodal agency for solid waste management.

Activity to be monitored Timeline Compliance status	**River Kansi**	**River Mayurakshi**	**River Rupnarayan**	**River Jalangi**
5. Progress report may be furnished by the state/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Progress report was sent on 23.03.2020 just before Lockdown.	Progress report was sent on 23.03.2020 just before Lockdown.	Progress report was sent on 23.03.2020 just before Lockdown.	Progress report was sent on 23.03.2020 just before Lockdown.
6. Progress Report may be comprised of details along with completion time line on :				
i. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment	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. 3rd call opening date-29/06/2020, tender expected to be finalized by August-2020.	Primary treatment for river by providing screens, aeration followed by disinfection by chlorination at out falls of 12 nos. of drains and 14 nos. at Santhia Is proposed. 2nd call opening date-26/06/2020, tender expected to be finalized by August-2020.	Primary treatment for river by providing screens, sedimentation tank followed by disinfection by chlorination at out falls of 4 nos. of drains is proposed. 3rd call opening date-29/06/2020, tender expected to be finalized by August-2020.	Primary treatment for river by providing screens, aeration followed by disinfection by chlorination at out falls of 8 nos. of drains is proposed. 4th call opening date-22/07/2020, tender expected to be finalized by August-2020.
ii. <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, Gap Analysis, Proposed treatment facilities along with completion timeline				
iii. <u>Status of CETPs</u> Details of existing CETP and ETP infrastructure, Gap analysis, proposed along with completion timeline, No. of industries and complying status				

Activity to be monitored Timeline Compliance status	**River Kansi**	**River Mayurakshi**	**River Rupnarayan**	**River Jalangi**
iv. <u>Status of solid waste management & details of processing facilities</u> Details of existing infrastructure, Gap analysis, proposed facilities along with completion time line	D 2 D collection of solid waste is expected to be achieved within Jan. 2021. Waste segregation at source is expected to be achieved within Mar. 2021 Present generation of waste in town is 114 TPD. Establishment of waste processing facility including SLF for the town will be completed following the timeframe as stipulated in Rule 22 of SWM Rule 2016	**<u>Sainthia</u>** D 2 D collection of solid waste is expected to be achieved within Jan. 2021. Waste segregation at source is expected to be achieved within Mar. 2021 Generation of waste in town is 27 TPD. Establishment of waste processing facility including SLF for the town will be completed following the timeframe as stipulated in Rule 22 of SWM Rule 2016 **<u>Suri</u>** D 2 D collection of solid waste is expected to be achieved within March 2020. Waste segregation at source is expected to be achieved within Octo.2020 Generation of waste in town is 47 TPD. Establishment of waste processing facility including SLF for the town will be completed following the timeframe as stipulated in Rule 22 of SWM Rule 2016	D 2 D collection of solid waste is expected to be achieved Jan. 2021. Waste segregation at source is expected to be achieved within Mar. 2021 Present generation of waste in town is 54 TPD. Establishment of waste processing facility including SLF for the town will be completed following the timeframe as stipulated in Rule 22 of SWM Rule 2016	D 2 D collection of solid waste is expected to be achieved within Jan. 2021. Waste segregation at sources expected to be achieved within Mar. 2021 Present generation of waste in town is 154 TPD. Establishment of waste processing facility including SLF for town will be completed following the timeframe as stipulated in Rule 22 of SWM Rule 2016
v. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river	BOD = 1.05 mg/l FC=4900 MPN/100 ml At Midnapur (May. 2020)	BOD = 2.10 mg/l FC=1500 MPN/100 ml At Suri (May. 2020)	BOD = 2.00 mg/l FC=5800 MPN/100 ml At Kolaghat (May. 2020)	BOD = 3.25 mg/l FC=400 MPN/100 ml At Krishnanagar (May. 2020)

Activity to be monitored Timeline Compliance status	**River Kansi**	**River Mayurakshi**	**River Rupnarayan**	**River Jalangi**
vi. Preventing dumping of waste and scientific waste management including biomedical wastes, plastic wastes and decentralizing waste processing, including generated from hotels, ashrams etc.	BMW reaches to common BMW facility.	BMW reaches to common BMW facility.	BMW reaches to common BMW facility.	BMW reaches to common BMW facility.
vii. Ground water regulation	Groundwater in the area is regulated by SWID, GoWB	Groundwater in the area is regulated by SWID, GoWB	Groundwater in the area is regulated by SWID, GoWB	Groundwater in the area is regulated by SWID, GoWB
viii. Adopting good irrigation practices	Bank protection work is running.	Bank protection work is running.	Bank protection work is running.	Bank protection work is running.
ix. Protection and management of Flood Plain Zone				
x. Rain water harvesting	Included in Municipal Building Byelaws	Included in Municipal Building Byelaws	Included in Municipal Building Byelaws	Included in Municipal Building Byelaws
xi. Maintaining minimum environmental flow of river				
xii. Plantation on both sides of the river	Forestry development will be taken up.	Forestry development will be taken up.	Forestry development will be taken up.	Forestry development will be taken up.
xiii. Setting up biodiversity parks on flood plains by removing encroachment	GoWB is going to set up Biodiversity park at every block from the next financial year.	GoWB is going to set up Biodiversity park at every block from the next financial year.	GoWB is going to set up Biodiversity park at every block from the next financial year.	GoWB is going to set up Biodiversity park at every block from the next financial year.

Monthly Progress Report in connection with O.A. 673/2018

Municipal Engineering Directorate — Submitted in: June 2020

Activity to be monitored Timeline Compliance status	**River Silabati**	**River Dwarekeswar**	**River Kaljani**	**River Karola**
1. Ensure 100% treatment of sewage atleast in-situ remediation Timeline: 31.03.2020	Primary treatment will be completed by 31.03.2021	Primary treatment will be completed by 31.03.2021	Primary treatment will be completed by 31.03.2021	Primary treatment will be completed by 31.03.2021
2. Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STP must be ensured Timeline: 31.03.2020	Primary treatment will be sufficient as BOD level is 2.95 mg/l (Jan. 2020)	Primary treatment will be sufficient as BOD level is 2.95 mg/l (Jan. 2020)	Primary treatment will be sufficient as BOD level is 1.40 mg/l (Jan. 2020)	Primary treatment will be sufficient as BOD level is 1.20 mg/l (Jan. 2020)
3. Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning Timeline: 31.03.2021				
4. Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary level • Chief Secretaries may have an accountable person attached in their office for this purpose Timeline: 22.01.2020 • Monitoring at state level must take place Timeline: Fortnightly commencing 21.12.2019	Environment Monitoring Cell at the office of the Chief Secretary has been constituted. CEO, KMDA is the nodal officer for liquid waste management. SUDA is the nodal agency for solid waste management.	Environment Monitoring Cell at the office of the Chief Secretary has been constituted. CEO, KMDA is the nodal officer for liquid waste management. SUDA is the nodal agency for solid waste management.	Environment Monitoring Cell at the office of the Chief Secretary has been constituted. CEO, KMDA is the nodal officer for liquid waste management. SUDA is the nodal agency for solid waste management.	Environment Monitoring Cell at the office of the Chief Secretary has been constituted. CEO, KMDA is the nodal officer for liquid waste management. SUDA is the nodal agency for solid waste management.

Activity to be monitored Timeline Compliance status	**River Silabati**	**River Dwarekeswar**	**River Kaljani**	**River Karola**
5. Progress report may be furnished by the state/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Progress report was sent on 23.03.2020 just before Lockdown.	Progress report was sent on 23.03.2020 just before Lockdown.	Progress report was sent on 23.03.2020 just before Lockdown.	Progress report was sent on 23.03.2020 just before Lockdown.
6. Progress Report may be comprised of details along with completion time line on : 7.				
i. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment	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. 3rd call opening date-02/07/2020, tender expected to be finalized by August-2020.	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. 3rd call opening date-02/07/2020, tender expected to be finalized by August-2020.	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. Acceptance issued on 19/06/2020, work to be started shortly.	Primary treatment for Jalpaiguri for river karola by providing screens, sedimentation tank, followed by disinfection by chlorination at out falls of 4 nos. of drains is proposed. Acceptance issued on 19/06/2020, work to be started shortly.
ii. <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, Gap Analysis, Proposed treatment facilities along with completion timeline				
iii. <u>Status of CETPs</u> Details of existing CETP and ETP infrastructure, Gap analysis, proposed along with completion timeline, No. of industries and complying status				

Activity to be monitored Timeline Compliance status	**River Silabati**	**River Dwarekeswar**	**River Kaljani**	**River Karola**
iv. <u>Status of solid waste management & details of processing facilities</u> Details of existing infrastructure, Gap analysis, proposed facilities along with completion time line	D 2 D collection of solid waste is expected to be achieved within Jan. 2021. Waste segregation at source is expected to be achieved within Mar. 2021 Present generation of waste in town is 28 TPD. Establishment of waste processing facility including SLF for the town will be completed following the timeframe as stipulated in Rule 22 of SWM Rule 2016	D 2 D collection of solid waste is expected to be achieved within Jan. 2021. Waste segregation at source is expected to be achieved within Mar. 2021 Present generation of waste in town is 65 TPD. Establishment of waste processing facility including SLF for the town will be completed following the timeframe as stipulated in Rule 22 of SWM Rule 2016	D 2 D collection of solid waste is expected to be achieved within Jan. 2021. Waste segregation at source is expected to be achieved within Mar. 2021 Present generation of waste in town is 22 TPD. Establishment of waste processing facility including SLF for the town will be completed following the timeframe as stipulated in Rule 22 of SWM Rule 2016	D 2 D collection of solid waste is expected to be achieved within Jan. 2021. Waste segregation at source is expected to be achieved within Mar. 2021 Present generation of waste in town is 40 TPD. Establishment of waste processing facility including SLF for the town will be completed following the timeframe as stipulated in Rule 22 of SWM Rule 2016
v. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river	BOD = 1.70 mg/l FC=3100 MPN/100 ml At Ghatal (May. 2020)	BOD = 2.95 mg/l FC=3100 MPN/100 ml At Bankura (May. 2020)	BOD = 1.80 mg/l FC=3300 MPN/100 ml At Alipurduar (May. 2020)	BOD = 1.80 mg/l FC=3400 MPN/100 ml At Jalpaiguri (May. 2020)
vi. Preventing dumping of waste and scientific waste management including biomedical wastes, plastic wastes and decentralizing waste processing, including generated from hotels, ashrams etc.	BMW reaches to common BMW facility.	BMW reaches to common BMW facility.	BMW reaches to common BMW facility.	BMW reaches to common BMW facility.
vii. Ground water regulation	Groundwater in the area is regulated by SWID, GoWB	Groundwater in the area is regulated by SWID, GoWB	Groundwater in the area is regulated by SWID, GoWB	Groundwater in the area is regulated by SWID, GoWB
viii. Adopting good irrigation practices	Bank protection work is running.	Bank protection work is running.	Bank protection work is running.	Bank protection work is running.

Activity to be monitored Timeline Compliance status	**River Silabati**	**River Dwarekeswar**	**River Kaljani**	**River Karola**
ix. Protection and management of Flood Plain Zone				
x. Rain water harvesting	Included in Municipal Building Byelaws	Included in Municipal Building Byelaws	Included in Municipal Building Byelaws	Included in Municipal Building Byelaws
xi. Maintaining minimum environmental flow of river				
xii. Plantation on both sides of the river	Forestry development will be taken up.	Forestry development will be taken up.	Forestry development will be taken up.	Forestry development will be taken up.
xiii. Setting up biodiversity parks on flood plains by removing encroachment	GoWB is going to set up Biodiversity park at every block from the next financial year.	GoWB is going to set up Biodiversity park at every block from the next financial year.	GoWB is going to set up Biodiversity park at every block from the next financial year.	GoWB is going to set up Biodiversity park at every block from the next financial year.

Monthly Progress Report in connection with O.A. 673/2018

Public Health Engineering Department Submitted in: June 2020

Activity to be monitored Timeline Compliance status	River Vidyadhari	River Dwarka	River Mathabhanga
1. Ensure 100% treatment of sewage atleast in-situ remediation Timeline: 31.03.2020	Bio/Phyto remediation is not possible since it is a tidal river.	Bio/ Phyto remediation is not necessary.	Trans-boundary ingress of pollutants from a sugar mill namely Darshana Sugar Mill in Kusthia, Bangladesh. The issue is being dealt at the level of International Joint River Commission between Bangladesh and India.
Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STP must be ensured Timeline: 31.03.2020	STP work of 24 MLD capacity in New Town was started in August 2016	Sewerage Network : February 2018 Construction of STP : February 2020	Not applicable
2. Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning Timeline: 31.03.2021	(a) New Town-Rajarhat - 24 MLD STP to be completed and commissioned by 30/06/2020. (b) Proposed Borobaro STP by KEIIP - 70 MLD, DPR is under preparation by KEIP. (c) 4 module CETP of 5 MLD capacity each, Total 20 MLD to be completed by KMC (d) Proposed STP at Ghusighata of 170 MLD.	May 2021	Not applicable
3. Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary level • Chief Secretaries may have an accountable person attached in their office for this purpose	Environment Monitoring Cell at the office of the Chief Secretary has been constituted. CEO, KMDA is the nodal officer for liquid waste management. SUDA is the nodal agency for solid waste management.	Environment Monitoring Cell at the office of the Chief Secretary has been formed. CEO, KMDA is the nodal officer for liquid waste management. SUDA is the nodal agency for solid waste management.	Environment Monitoring Cell at the office of the Chief Secretary has been formed. CEO, KMDA is the nodal officer for liquid waste management. SUDA is the nodal agency for solid waste management.

Activity to be monitored Timeline Compliance status	River Vidyadhari	River Dwarka	River Mathabhanga
Timeline: 22.01.2020 • Monitoring at state level must take place Timeline: Fortnightly commencing 21.12.2019			
4. Progress report may be furnished by the state/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Progress report was sent on 23.03.2020 just before Lockdown.	Progress report was sent on 23.03.2020 just before Lockdown.	Progress report was sent on 23.03.2020 just before Lockdown.
5. Progress Report may be comprised of details along with completion time line on :			
i. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment	Identified	Identified March 2015 (A DPR has been prepared by School of Water Resources Engg., Jadavpur University)	Trans-boundary ingress of pollutants from a sugar mill namely Darshana Sugar Mill in Kusthia, Bangladesh.
ii. <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, Gap Analysis, Proposed treatment facilities along with completion timeline	Total sewage generation =1539.24 MLD Existing STP=1276.73 MLD Gap assessed=262.51 New Town-Rajarhat - 24 MLD STP to be completed and commissioned by 30/06/2020. Proposed Borobaro STP by KEIIP - 70 MLD, DPR is under preparation by KEIIP. Proposed STP at Ghusighata =170 MLD	In progress. May 2021	Not applicable
iii. <u>Status of CETPs</u> Details of existing CETP and ETP infrastructure, Gap analysis, proposed along with completion timeline, No. of industries and complying status	4 modules of 5 MLD each are in operation. Additional 4 module CETP of 5 MLD capacity each, Total 20 MLD to be completed by KMC.	Not Applicable	Not applicable

Activity to be monitored Timeline Compliance status	River Vidyadhari	River Dwarka	River Mathabhanga
iv. <u>Status of solid waste management & details of processing facilities</u> Details of existing infrastructure, Gap analysis, proposed facilities along with completion time line	No solid waste of KMC reached the river Vidyadhari. However, KMC, BMC, NKDA have taken up solid waste management program. Door to door collection and segregation at source started. Biomining for legacy waste dump site at MollarBheri will start shortly.	Not Applicable	Not applicable
v. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river	BOD = 10.47 mg/l FC=50000 MPN/100 ml At Malancha (May. 2020)	BOD = 3.25 mg/l FC=7900 MPN/100 ml At Satighat (May. 2020)	BOD = 5.75 mg/l FC=30000 MPN/100 ml At Gobindapur (May. 2020)
vi. Preventing dumping of waste and scientific waste management including biomedical wastes, plastic wastes and decentralizing waste processing, including generated from hotels, ashrams etc.	Two common BMW treatment facilities are in operation. Decentralised waste processing facilities will be set up shortly.	One common BMW treatment facility is in operation. Decentralised waste processing facilities will be set up shortly.	Not applicable
vii. Ground water regulation	Four (4) nos. only surface water based piped water supply schemes have been taken up. Moreover groundwater in the area is regulated by SWID, GoWB.	Groundwater in the area is regulated by SWID, GoWB	Groundwater in the area is regulated by SWID, GoWB
viii. Adopting good irrigation practices	Erosion protection work by raising, strengthening and improvement of embankment for flood plain zone protection and its management by 31.03.2021.		
ix. Protection and management of Flood Plain Zone			
x. Rain water harvesting	Rs 72.256 (Water Conservation) Schemes to be taken under MGNREGA		

Activity to be monitored Timeline Compliance status	River Vidyadhari	River Dwarka	River Mathabhanga
xi. Maintaining minimum environmental flow of river			
xii. Plantation on both sides of the river	Rs 42.386 Lakh, Schemes to be taken under MGNREGA	Afforestation programme has been taken up by Forest Department.	Afforestation programme has been taken up by Forest Department.
xiii. Setting up biodiversity parks on flood plains by removing encroachment	One biodiversity park called Eco-Park has already been developed in New Town, Kolkata area. GoWB is going to set up Biodiversity park at every block from the next financial year.	GoWB is going to set up Biodiversity park at every block from the next financial year.	GoWB is going to set up Biodiversity park at every block from the next financial year.

Monthly Progress Report in connection with O.A. 673/2018

Siliguri Jalpaiguri Development Authority Submitted in: June 2020

Activity to be monitored Timeline Compliance status	**River Mahananda**
1. Ensure 100% treatment of sewage atleast in-situ remediation Timeline: 31.03.2020	Primarily we have identified three major polluting drains namely 1. Drain near STP-II pumping Station at PWD More, Siliguri, 2. Drain near Surya Sen Park at Mahakalpally, Siliguri and 3. Drain near junction of Mahismari River with Mahananda River at Geeta Devi ChhatGhat at Samar Nagar, Siliguri flowing into Mahananda river for in-situ treatment. Tender process for in-situ treatment of these drains Tender already invited. Time line: 31.10.2020
Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STP must be ensured Timeline: 31.03.2020	Preparation of Modified DPR comprising of interception of 76 outfall drains at Left Bank Mahananda River & 186 outfall drains at JorapaniFuleshwari and operationalisation STP-II & STP-III with a capacity of 15 MLD & 24 MLD has been done (Which were earlier taken up by SJDA in 2012-13 under Mahananda River conservation plan but left incomplete due to various reason). These two STPs will cover left bank of Mahananda and JorapaniFuleswari (Tributaries of Mahananda) respectively. The total Modified DPR cost is Rs. 118.85 Crore. It has been submitted to KMDA on 27.05.2020 for vetting. Time line: 31.12.2020
2. Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning Timeline: 31.03.2021	After vetting of Modified DPR, it will be submitted to UD & MA Deptt., Govt. of West Bengal for sanction. The following are tentative timelines as submitted by our earlier action plan for Mahananda River: (i) Approval from Govt. by 30.9.2020 (ii) Tender procedure by 31.12.2020 (iii)Completion of STPs by 31.03.2022 Time line : 31.03.2022
3. Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary level • Chief Secretaries may have an accountable person attached in their office for this purpose Timeline: 22.01.2020 • Monitoring at state level must take place Timeline: Fortnightly commencing	Environment Monitoring Cell at the office of the Chief Secretary has been constituted. CEO, KMDA is the nodal officer for liquid waste management. SUDA is the nodal agency for solid waste management.

Activity to be monitored Timeline Compliance status	**River Mahananda**
21.12.2019	
4. Progress report may be furnished by the state/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Progress report was sent on 23.03.2020 just before Lockdown.
5. Progress Report may be comprised of details along with completion time line on :	
i. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment	Primarily we have indentified three major pollutingdrains namely 1. Drain near STP-Il pumpingStation at PWD More, Siliguri, 2. Drainnear Surya Sen Park at Mahakalpally, Siliguri and 3. Drain near junction ofMahismari River with Mahananda River atGeeta Devi ChhatGhat at Samar Nagar, Siliguri flowing into Mahananda river for in-situtreatment. The process have been initiated to execute in-situ treatment on these drains.
ii. <u>Status of STPs, I&D and sewerage networks</u> Details of existing infrastructure, Gap Analysis, Proposed treatment facilities along with completion timeline	Preparation of Modified Detailed ProjectReport for operationalisation STP-II & STP-I II witha capacity of 15 MLD & 24 MLD has been done(Which were earlier taken up by SJDA in 2012-13under Mahananda River conservation plan but left incomplete due to various reason). These twoSTPs will cover left bank of Mahananda and JorapaniFuleswari (Tributaries of Mahananda) respectively. The total cost is Rs. Modified DPR118.85 Crore. It has been submitted to KMDA on27.05.2020 for vetting. With respect to the proposal of STP-I to cover the drains flowing into Mahananda River right bank, there is a problem of land availability. Identification of suitable land is on going. After vetting of Modified DPR, it will besubmitted to UD & MA Dept, Govt. of WestBengal for sanction. The following are tentative timelines as submitted by our earlier action plan for Mahananda River: (i) Approval from Govt. by 30.9.2020 (ii) Tender procedure by 31.12.2020 (iii) Completion of STPs by 31.03.2022
iii. <u>Status of CETPs</u> Details of existing CETP and ETP infrastructure, Gap analysis, proposed along with completion timeline, No. of industries and complying status	NA
iv. <u>Status of solid waste management & details of processing facilities</u> Details of existing infrastructure, Gap analysis, proposed facilities along with completion time line	NA

Activity to be monitored Timeline Compliance status	**River Mahananda**
v. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river	BOD = 18.0 mg/l FC=140000 MPN/100 ml At Ramghat (May. 2020)
vi. Preventing dumping of waste and scientific waste management including biomedical wastes, plastic wastes and decentralizing waste processing, including generated from hotels, ashrams etc.	NA
vii. Ground water regulation	
viii. Adopting good irrigation practices	NA
ix. Protection and management of Flood Plain Zone	NA
x. Rain water harvesting	NA
xi. Maintaining minimum environmental flow of river	NA
xii. Plantation on both sides of the river	NA
xiii. Setting up biodiversity parks on flood plains by removing encroachment	NA