TRIPURA STATE POLLUTION CONTROL BOARD

(A Govt. of Tripura Organisation)

No.F.19 (7)/TSPCB/RRC/3116-19 **February 17,2020.**

To
The Secretary
Ministry of Jal Shakti (MoJS)
1st floor, Major Dhyan Chand National Stadium
India gate, New Delhi-110002.

Sub. : Submission of monthly progress report of six identified river stretches of Tripura for the month of January, 2020.

Sir,

In compliance to Hon'ble National Green Tribunal Order dated 6.12.2019 in O.A No.673/2018 in the matter of news item published in 'The Hindu' titled "More River Stretches are now critically polluted :CPCB" please find enclosed the monthly progress report for six identified river stretches of Tripura for the month of January,2020 in the prescribed format for kind information.

Yours Sincerely,

17.2.2020

(Bishu Karmakar)
Member Secretary

Enclosed: as stated

Copy to:

1. PS to the Secretary, Science, Technology and Environment, Government of Tripura for kind information of the Secretary.
2. The Director, Science, Technology and Environment, Govt. of Tripura for kind information.
3. Mr. A. Sudhakar, DH, WQM-1 Division, Central Pollution Control Board MoEF & CC, Govt. of India. Parivesh Bhawan, East Arjun Nagar, Delhi-110032.

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MONTHLY STATUS REPORT OF 6 (SIX) IDENTIFIED RIVER STRETCHES IN THE STATE OF TRIPURA

- In pursuance to the Report of the CPCB and in compliance of the directions of the Hon'ble NGT, Principal Bench, New Delhi, vide its Order dated 20.09.2018 in O.A. 673 of 2018, the State Government constituted a **River Rejuvenation Committee (RRC),** vide its Memorandum dated 01.11.2018. The Committee is also functioning as the Monitoring Committee for the Action Plans already prepared for rejuvenation of 6 (six) identified river stretches as mentioned under 30 above. The Committee comprises the following officers of the State Government:

1.	Director, Science, Technology & Environment	Chairman
2.	Director, Urban Development	Member
3.	Director, Industries & Commerce	Member
4.	Member Secretary, TSPCB	Member Secretary

The Committee is working under overall supervision of the Secretary, Science, Technology and Environment.

- Besides the above, as per directions of the Hon'ble NGT, Principal Bench, New Delhi, the State Government has also constituted District-level Special Environment Surveillance Task Force (SESTF) for each District.
- The River Rejuvenation Committee has prepared the Action Plans for individual river stretches as suggested by the CPCB. The Action Plans were sent to CPCB on 28.06.2019. The said Action Plans have been uploaded in the TSPCB website.
- Tripura State Pollution Control Board (TSPCB) is conducting water quality monitoring on monthly basis under National Water Quality Monitoring Programme (NWMP) of Central Pollution Control Board for the following six identified polluted river stretches in the State:

River	River Stretch

Burigaon	Along Bishalgarh
Gumti	Telkajila To Amarpur
Haora	Agartala To Bishramganj
Juri	Along Dharmanagar
Khowai	Along Teliamura
Manu	Along Kailashahar

- From the analytical report for all the monitoring locations of six rivers entered in EWQDES portal of CPCB by TSPCB since June, 2016, it has been observed that the BOD values for the six identified polluted river stretches were within prescribed standard limit (3 mg/l) except for some specific months in respect of Gumati river (June, July, August & September, 2016 at Sonamura location), Haora river (June & July, 2016 at Chandrapur location; June to August, 2016 at Dashamighat location) Juri river (June to November, 2016 at Krishnapur location) Manu river (June to August, 2016 at Kailasahar location). It is relevant to mention that for all the monitoring locations of Khowai river, the BOD value was within prescribed standard limit (3 mg/l) since June, 2016. The month wise latest analytical report in respect of BOD values for the six identified polluted river stretches are at (**ANNEXURE-1**)**.**
- All concerned Departments / Organizations have been directed to take necessary steps for effective implementation of the Action Plans so that the water quality of the 6 (six) identified river stretches remains within prescribed standards.
- The River Rejuvenation Committee, Tripura review the action taken on implementation of the Action Plans for rejuvenation of the six identified river stretched on regular basis. The minutes are being uploaded in TSPCB website.
- Ther Chief Secretary, Tripura also monitored the action taken on implementation of the Action Plans for rejuvenation of the six identified river stretched every month in the State Level Committee meeting through video conferencing with all DMs.
- Further, Detail Status on Implementation of Action Plan For Restoration of 6 (Six) Identified River Stretches of Tripura in the prescribed format are as follows :

DETAIL STATUS ON IMPLEMENTATION OF ACTION PLAN FOR RESTORATION OF 6 (SIX) IDENTIFIED RIVER STRECTHES OF TRIPURA

Name of the River: Burigaon River

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
1	**Ensure 100 % treatment of sewage at least in situ remediation**	31.03.2022	A Detailed Project Report for Installation of Sewage Treatment Plant having capacity of 4 MLD at Bishalgarh Municipal Council areas is being formulated for submission to concerned Ministry, Government of India. However, all the ULBs has been directed to construct low cost STPs as the water quality of all the six rivers and stretches are within prescribed standard.
	Commencement of setting up of STPs and Connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2022	Channelization including diversion of sewage generated from household townships to sewer lines /interception of all the drains presently carrying sewage and for ensuring proper treatment through the upcoming STPs will be done after installation of STP.
2	**Time line for completing all steps of action plans including completion of setting up of STPs and their commissioning**	31.03.2022	All the ULBs has been directed to construct low cost STPs as the water quality of all the six rivers and stretches are within prescribed standard.

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs- Compliance Status
3	**Chief secretaries may set up appropriate monitoring mechanism at state level.** **Specifying accountability of nodal Authorities not below the secretary level.** **Chief may have an accountable person attached in their office for this purpose.**	Continuous activity	State level committee has been notified under the chairmanship of Chief Secretary to Monitor the overall progress of the compliance. In addition, a committee has been constituted namely the River Rejuvenation Committee (RRC) to look after the progress of the implementation of the action plan for restoration of the river stretches. A district level committee has been constituted which is also known as district task force for overall monitoring of the implementation of the action plan
	Monitoring at state level must take place	Fortnightly commencing 21.12.2019	State level committee meeting under the chairmanship of the Chief Secretary have been conducted monthly to monitor the overall progress at the state level and River Rejuvenation Committee (RRC) also holding meeting regularly.
4	**Progress report may be furnished by the states/UTs to** • **Secretary, Ministry of Jal Shakti** • **Member Secretary, CPCB**	Monthly (Preferably before 20th of every month)	Monthly progress report will be sent to Secretary, Ministry of Jal Shakti and Member Secretary, CPCB
5.1	**Identification of polluting sources including drains contributing to**	31.03.2021	Identification of all the industries located in and around 500 meters of the Burigaon river stretches has been done. A total of 38 small industries were found in the identified river

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
	river pollution and action as per NGT order on in-situ treatment.		stretches of Burigaon river. Identification of drains (if any) is being done by the district level monitoring committee. However, wire mesh has been installed in all the drains. Tripura is already declared as ODF state. So, no such Kachha Latrine are there to discharge the human excrita directly in the river water.
5.2	**Status of STPs, I & D and sewerage Networks**	31.03.2022	As the BOD values of the river water and river stretches are within prescribed standard limit, all the ULBs are communicated for installation of low cost STP.
5.3	**Status of CETPs** **Details of existing CETP and ETP infrastructure, gap analysis proposed with completion timeline, No. of industries and complying status.**	31.03.2022	**ETP:** Direction has been issued by the Tripura State Pollution Control Board to all industrial units situated at the catchment areas of the river for installation of ETP. ETP has been constructed in almost all the industries where ever required. Though, very small amount of industries have the requirement of installation of ETP. **CETP:** CETP is not required in this specific river stretch as the BOD level is under the prescribed standard.
5.4	**Status of Solid Waste Management and details of processing facilities** **(Details of Existing Infrastructure, Gap analysis,**	31.03.2020	Door to Door Collection has been started involving women SHGs . The collected wastes after source segregation are transported to Solid waste processing site at Devendra Chandra Nagar, Agartala.
		31.03.2021	Strengthening of Solid Waste Management Disposal Site is being done.
		Continuous activity.	Sign Board for prohibition of disposal of municipal plastic, bio- medical wastes and other wastes has been displayed at different

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
	Proposal along with completion timeline.)		locations within municipality area. Fitting fixing of wire mesh to protect plastic flow work at four feeder point is going on. Source segregation of different types of wastes is carried out involving women SHGs**.**
			Approximately 11.6 TDP solid waste has been generated under Bishalgarh Municipal Council. All most all the Wards are being engaged with women SHGs for collection and segregation of solid wastes before further disposal into Devendra Chandanagar solid waste disposable site. No such gap found between current status and desirable level.
5.5	**Latest Water Quality of Polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river.**	Continuous activity	Tripura State Pollution Control Board (TSPCB) is conducting water quality monitoring on monthly basis under National Water Quality Monitoring Programme (NWMP) of Central Pollution Control Board for the following six identified polluted river and river stretches in the State. The month wise latest analytical report in respect of BOD values for the six identified polluted river stretches are at **Annexure-1.**
5.6	**Preventing Dumping of waste and scientific waste management including Bio Medical waste and decentralizing waste processing including waste generated from Hotels and**	31.03.2021	Dumping of solid wastes is strictly prohibited in river and river stretches by using bylaws. Trainings to all healthcare workers and others, involved in handling of bio-medical waste have been provided at the time of induction. Strict monitoring are being done by the Health department as well as Tripura State Pollution Control Board so that no Bio medical wastes dumped into the river. Amongst the Public Health Facilities 03 state level hospitals namely GBP Hospital, IGM Hospital & Cancer hospital have their own

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
	ashrams etc.		incinerator. Other Public Health Facilities are managing the biomedical waste through disinfection, deep burial & sharp pits. However, one CBWTF Operator has been selected by Health & Family Welfare Department, Govt. of Tripura through open tendering through e-Procurement for the whole State of Tripura to cater to all 126 Public Health Facilities having estimated 4319 beds. EC has been issued in favour of the said project. The concerned agency has been instructed to expedite the process for infrastructure development as well as setting up of the facility at an early date.
5.7	**Ground Water regulation**	Continuous activity	Assessment of Ground water in all the identified locations has been done by the Tripura State Pollution Control Board on a regular basis. So far, there is no contamination observed.
		Continuous activity.	Direction has been issued to obtain the NOC from Central Ground Water Authority to all the Industrial units located in the catchment areas of Burigaon River. Many of the units have also submitted the declarations along with the NOC from Central Ground Water Authority.
5.8	**Adopting good irrigation practice**	Continuous activity	Generation of mass awareness to conserve water and also for good irrigation practices is being carried out by the farmers in the catchment areas of Burigaon River.
5.9	**Protection and Management of Flood Plain Zone (FPZ)**	Continuous activity	Bamboo Plantation on sides of the river banks has been done in collaboration with Forest Department, Tripura. Target achieved 100%.
			Regular monitoring is going on to check illegal

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
			encroachment.
5.10	Rain Water Harvesting	Continuous activity	All the industries using in the catchment areas responsible for using ground water for industrial purpose is directed to construct rain water harvesting plant and the compliance has been ensured.
5.11	**Environmental Flow (E-Flow)**	31.03.2022	Tender has been invited for installation of digital e-flow meter to monitor the minimum discharge during lean period and records to be maintained monthly basis after installation.
5.12	**Plantation on both sides of the river**	31.03.2020	Extensive river side plantation has been carried out on both sides of the river.
5.13	**Setting up of Bio diversity parks on flood plains by removing encroachments.**	31.03.2022	Extensive river side plantation has been carried out on both sides of the river. Proper monitoring are being done by Concerned District administration to prohibit any kind of illegal encroachment in the river stretches.
5.14	**Awareness Generation**	Continuous activity	Extensive awareness activities are going on involving Eco Club Schools, NGOs and representatives of Urban Local Bodies on continuous basis. Awareness programme is going on in every Friday during village tour headed by District Magistrate & Collector of Sipahijala district and covered Nidaya GP, Killamura ADC Village, Taibandal ADC Village, Rangmala ADC Village, Ramcherra ADC Village , Purba Gakulpur GP, Dhanirampur ADC Village till date, which are situated near the river bank. School level awareness has been done through drama, science seminar and quiz competition for mass awareness generation and restoration of Burigaon river.

Name of the River: GUMTI RIVER (AMARPUR TO TELKAJLA)

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
1	**Ensure 100 % treatment of sewage at least in situ remediation**	31.03.2022	A Detailed Project Report for Installation of Sewage Treatment Plant having capacity of 8 MLD at Udaipur for the three Urban local bodies such as Amarpur Nagar Panchayet, Udaipur Municipal Council and Sonamura Nagar Panchayet areas is being formulated for submission to concerned Ministry, Government of India. However, all the ULBs has been directed to construct low cost STPs as the water quality of all the six rivers and stretches are within prescribed standard.
	Commencement of setting up of STPs and Connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2022	Channelization including diversion of sewage generated from household townships to sewer lines /interception of all the drains presently carrying sewage and for ensuring proper treatment through the upcoming STPs will be done after installation of STP.
2	**Time line for completing all steps of action plans including completion of setting up of STPs and their commissioning**	31.03.2022	All the ULBs has been directed to construct low cost STPs as the water quality of all the six rivers and stretches are within prescribed standard.

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs- Compliance Status
3	**Chief secretaries may set up appropriate monitoring mechanism at state level.** **Specifying accountability of nodal Authorities not below the secretary level.** **Chief may have an accountable person attached in their office for this purpose.**	Continuous activity.	State level committee has been notified under the chairmanship of Chief Secretary to Monitor the overall progress of the compliance. In addition, a committee has been constituted namely the River Rejuvenation Committee (RRC) to look after the progress of the implementation of the action plan for restoration of the river stretches. A district level committee has been constituted which is also known as district task force for overall monitoring of the implementation of the action plan
	Monitoring at state level must take place	Fortnightly commencing 21.12.2019	State level committee meeting under the chairmanship of the Chief Secretary have been conducted monthly to monitor the overall progress at the state level and River Rejuvenation Committee (RRC) also holding meeting regularly.
4	**Progress report may be furnished by the states/UTs to** • **Secretary, Ministry of Jal Shakti** • **Member Secretary, CPCB**	Monthly (Preferably before 20th of every month)	Monthly progress report will be sent to Secretary, Ministry of Jal Shakti and Member Secretary, CPCB.
5.1	**Identification of polluting sources including drains contributing to**	31.03.2021	Identification of all the industries located in and around 500 meters of the Gomati river stretches has been done. A total of 24 small industries were found in the identified river

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
	river pollution and action as per NGT order on in-situ treatment.		stretches of Gumati river. Identification of drains (if any) is being done by the district level monitoring committee. However, wire mesh has been installed in all the drains under the Udaipur, Amarpur and Sonamura town. Tripura is already declared as ODF state. So, no such Kachha Latrine are there to discharge the human excreta directly in the river water.
5.2	**Status of STPs, I & D and sewerage Networks**	31.03.2022	As the BOD values of the river water and river stretches are within prescribed standard limit, all the ULBs are communicated for installation of low cost STP.
5.3	**Status of CETPs** **Details of existing CETP and ETP infrastructure, gap analysis proposed with completion timeline, No. of industries and complying status.**	31.03.2022	**ETP:** Direction has been issued by the Tripura State Pollution Control Board to all industrial units situated at the catchment areas of the river for installation of ETP. ETP has been constructed in almost all the industries where ever required. Though, very small amount of industries have the requirement of installation of ETP. **CETP:** CETP is not required in this specific river stretch as the BOD level is under the prescribed standard.
5.4	**Status of Solid Waste Management and details of processing facilities** **(Details of Existing Infrastructure,**	31.03.2020	Door to Door Collection has been started involving women SHGs. The collected wastes after source segregation are transported to Solid waste processing site .
		31.03.2021	Strengthening of Solid Waste Management Disposal Site as cluster basis is being done.
		Continuous activity.	Sign Board for prohibition of disposal of municipal plastic, bio- medical wastes and other wastes has been displayed at different

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
	Gap analysis, Proposal along with completion timeline.)		locations within municipality area. Fitting fixing of wire mesh to protect plastic flow work at four feeder point is going on. Source segregation of different types of wastes is carried out involving women SHGs**.**
			Approximately 18.5 TDP solid waste has been generated under Udaipur Municipal Council, 6.1 TDP solid waste has been generated under Sonamura Nagar Panchayetl, 5.8 TDP solid waste has been generated under Amarpur Nagar Panchayet . All most all the Wards are being engaged with women SHGs for collection and segregation of solid wastes before further disposal into solid waste disposable site. No such gap found between current status and desirable level.
5.5	**Latest Water Quality of Polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river.**	Continuous activity.	Tripura State Pollution Control Board (TSPCB) is conducting water quality monitoring on monthly basis under National Water Quality Monitoring Programme (NWMP) of Central Pollution Control Board for the following six identified polluted river and river stretches in the State. The month wise latest analytical report in respect of BOD values for the six identified polluted river stretches are at **Annexure-1.**
5.6	**Preventing Dumping of waste and scientific waste management including Bio Medical waste and decentralizing waste processing**	31.03.2021	Dumping of solid wastes is strictly prohibited in river and river stretches by using bylaws. Trainings to all healthcare workers and others, involved in handling of bio-medical waste have been provided at the time of induction. Strict monitoring are being done by the Health department as well as Tripura State Pollution Control Board so that no Bio medical wastes dumped into the river. Amongst the Public Health Facilities 03 state

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
	including waste generated from Hotels and ashrams etc.		level hospitals namely GBP Hospital, IGM Hospital & Cancer hospital have their own incinerator. Other Public Health Facilities are managing the biomedical waste through disinfection, deep burial & sharp pits. However, one CBWTF Operator has been selected by Health & Family Welfare Department, Govt. of Tripura through open tendering through e-Procurement for the whole State of Tripura to cater to all 126 Public Health Facilities having estimated 4319 beds. EC has been issued in favour of the said project. The concerned agency has been instructed to expedite the process for infrastructure development as well as setting up of the facility at an early date.
5.7	Ground Water regulation	Continuous activity	Assessment of Ground water in all the identified locations has been done by the Tripura State Pollution Control Board on a regular basis. So far, there is no contamination observed.
		Continuous activity.	Direction has been issued to obtain the NOC from Central Ground Water Authority to all the Industrial units located in the catchment areas of Burigaon River. Many of the units have also submitted the declarations along with the NOC from Central Ground Water Authority.
5.8	Adopting good irrigation practice	Continuous activity.	Generation of mass awareness to conserve water and also for good irrigation practices is being carried out by the farmers in the catchment areas of Gomati River.
5.9	**Protection and Management of Flood Plain Zone**	Continuous activity.	Bamboo Plantation on sides of the river banks has been done in collaboration with Forest Department, Tripura. Target achieved 100%.

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
	(FPZ)	Continuous activity.	Regular monitoring is going on to check illegal encroachment.
5.10	**Rain Water Harvesting**	Continuous activity.	All the industries in the catchment areas responsible for using ground water for industrial purpose is directed to construct rain water harvesting plant and the compliance has been ensured.
5.11	**Environmental Flow (E-Flow)**	Continuous activity.	Tender has been invited for installation of digital e-flow meter to monitor the minimum discharge during lean period and records to be maintained monthly basis after installation.
5.12	**Plantation on both sides of the river**	31.03.2020	Extensive river side plantation has been carried out on both sides of the river.
5.13	**Setting up of Bio diversity parks on flood plains by removing encroachments.**	Continuous activity.	Extensive river side plantation has been carried out on both sides of the river. Proper monitoring are being done by Concerned District administration to prohibit any kind of illegal encroachment in the river stretches.
5.14	**Awareness Generation**	Continuous activity.	Extensive awareness activities are going on involving Eco Club Schools, NGOs and representatives of Urban Local Bodies. Mass awareness programme are organized by the students and teachers in the schools as well as within the villages near the river bank of Gumati river.

NAME OF RIVER : HAORA RIVER (AGARTALA To CHAMPAKNAGAR STRETCH)

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
1	**Ensure 100 % treatment of sewage at least in situ remediation**	31.03.2022	One STP of 8 MLD at Agartala is functional and meets the prescribed standard. The treated water is being reused for gardening and water sprinkling at the road side . A Sewage Treatment Plant (STP) of 8 MLD capacity will be installed in Akhaura ICP (International Check Post). DPR has been prepared. Tenders are invited and bid received from bidders. Tender finalized. However, all the ULBs has been directed to construct low cost STPs as the water quality of all the six rivers and stretches are within prescribed standard.
	Commencement of setting up of STPs and Connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2022	Channelization including diversion of sewage generated from household townships to sewer lines /interception of all the drains presently carrying sewage and for ensuring proper treatment through the upcoming STPs will be done after installation of STP.
2	**Time line for completing all steps of action plans including completion of setting up of STPs and their commissioning**	31.03.2022	All the ULBs has been directed to construct low cost STPs as the water quality of all the six rivers and stretches are within prescribed standard.

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs- Compliance Status
3	**Chief secretaries may set up appropriate monitoring mechanism at state level.** **Specifying accountability of nodal Authorities not below the secretary level.** **Chief may have an accountable person attached in their office for this purpose.**	Continuous activity	State level committee has been notified under the chairmanship of Chief Secretary to Monitor the overall progress of the compliance. In addition, a committee has been constituted namely the River Rejuvenation Committee (RRC) to look after the progress of the implementation of the action plan for restoration of the river stretches. A district level committee has been constituted which is also known as district task force for overall monitoring of the implementation of the action plan
	Monitoring at state level must take place	Fortnightly commencing 21.12.2019	State level committee meeting under the chairmanship of the Chief Secretary have been conducted monthly to monitor the overall progress at the state level and River Rejuvenation Committee (RRC) also holding meeting regularly.
4	**Progress report may be furnished by the states/UTs to** • **Secretary, Ministry of Jal Shakti** • **Member Secretary, CPCB**	Monthly (Preferably before 20th of every month)	Monthly progress report will be sent to Secretary, Ministry of Jal Shakti and Member Secretary, CPCB
5.1	**Identification of polluting sources including drains contributing to**	31.03.2021	Identification of all the industries located in and around 500 meters of the Haora river stretches has been done. A total of 97 small industries were found in the identified river stretches of

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
	river pollution and action as per NGT order on in-situ treatment.		Haora river. Identification of drains (if any) is being done by the district level monitoring committee. However, wire mesh has been installed in all the drains. Tripura is already declared as ODF state. So, no such Kachha Latrine are there to discharge the human excrita directly in the river water.
5.2	**Status of STPs, I & D and sewerage Networks**	31.03.2022	As the BOD values of the river water and river stretches are within prescribed standard limit, all the ULBs are communicated for installation of low cost STP.
5.3	**Status of CETPs** **Details of existing CETP and ETP infrastructure, gap analysis proposed with completion timeline, No. of industries and complying status.**	31.03.2022	**ETP:** Direction has been issued by the Tripura State Pollution Control Board to all industrial units situated at the catchment areas of the river for installation of ETP. ETP has been constructed in almost all the industries where ever required. Though, very small amount of industries have the requirement of installation of ETP. **CETP:** There is only one (01) CETP of 500 KLD capacities setup at Bodhjungnagar Industrial Complex in the State of Tripura. At present the plant is running smoothly. The CETP is connected with Effluent generating Units through common pipe line for transportation of Effluent to the plant for treatment purpose. Effluent is being treated in CETP at different stage so as to make the content of impurities up to a permissible limit as per guide line of Tripura State Pollution Control Board (TSPCB). It is complying with the effluent standards.
5.4	**Status of Solid Waste**	31.03.2020	Door to Door Collection has been started involving women SHGs . The collected wastes

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
	Management and details of processing facilities **(Details of Existing Infrastructure, Gap analysis, Proposal along with completion timeline.)**		after source segregation are transported to Solid waste processing site at Devendra Chandra Nagar, Agartala.
		31.03.2021	Strengthening of Solid Waste Management Disposal Site at Devendra Chandranagar, Agartala for effective solid waste management for Bishalgarh Municipal Council as cluster basis has been strengthened.
		Continuous activity.	Sign Board for prohibition of disposal of municipal plastic, bio- medical wastes and other wastes has been displayed at different locations within municipality area. Fitting fixing of wire mesh to protect plastic flow work at four feeder point is going on. Source segregation of different types of wastes is carried out involving women SHGs**.**
			Approximately 241.1 TDP solid waste has been generated under Agartala municipal Corporation, 7.2 TDP solid waste has been generated under Ranir Bazar municipal Council, 6.3 TDP solid waste has been generated under Jirania Nagar Panchayet . All most all the Wards are being engaged with women SHGs for collection and segregation of solid wastes before further disposal into Devendra Chandanagar solid waste disposable site. No such gap found between current status and desirable level.

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
5.5	**Latest Water Quality of Polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river.**	Continuous activity	Tripura State Pollution Control Board (TSPCB) is conducting water quality monitoring on monthly basis under National Water Quality Monitoring Programme (NWMP) of Central Pollution Control Board for the following six identified polluted river and river stretches in the State. The month wise latest analytical report in respect of BOD values for the six identified polluted river stretches are at **Annexure-1.**
5.6	**Preventing Dumping of waste and scientific waste management including Bio Medical waste and decentralizing waste processing including waste generated from Hotels and ashrams etc.**	31.03.2021	Dumping of solid wastes is strictly prohibited in river and river stretches by using bylaws. Trainings to all healthcare workers and others, involved in handling of bio-medical waste have been provided at the time of induction. Strict monitoring are being done by the Health department as well as Tripura State Pollution Control Board so that no Bio medical wastes dumped into the river. Amongst the Public Health Facilities 03 state level hospitals namely GBP Hospital, IGM Hospital & Cancer hospital have their own incinerator. Other Public Health Facilities are managing the biomedical waste through disinfection, deep burial & sharp pits. However, one CBWTF Operator has been selected by Health & Family Welfare Department, Govt. of Tripura through open tendering through e-Procurement for the whole State of Tripura to cater to all 126 Public Health Facilities having estimated 4319 beds. EC has been issued in favour of the said project. The concerned agency has been instructed to expedite the process for infrastructure development as well as setting up of the facility at an early date.

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
5.7	**Ground Water regulation**	Continuous activity	Assessment of Ground water in all the identified locations has been done by the Tripura State Pollution Control Board on a regular basis. So far, there is no contamination observed.
		Continuous activity.	Direction has been issued to obtain the NOC from Central Ground Water Authority to all the Industrial units located in the catchment areas of Burigaon River. Many of the units have also submitted the declarations along with the NOC from Central Ground Water Authority.
5.8	**Adopting good irrigation practice**	Continuous activity	Generation of mass awareness to conserve water and also for good irrigation practices is being carried out by the farmers in the catchment areas of Haora River.
5.9	**Protection and Management of Flood Plain Zone (FPZ)**	Continuous activity	Bamboo Plantation on sides of the river banks has been done in collaboration with Forest Department, Tripura. Target achieved 100%.
			Regular monitoring is going on to check illegal encroachment.
5.10	Rain Water Harvesting	Continuous activity	All the industries using in the catchment areas responsible for using ground water for industrial purpose is directed to construct rain water harvesting plant and the compliance has been ensured.
5.11	**Environmental Flow (E-Flow)**	31.03.2022	Tender has been invited for installation of digital e-flow meter to monitor the minimum discharge during lean period and records to be maintained monthly basis after installation.
5.12	**Plantation on both sides of the river**	31.03.2020	Extensive river side plantation has been carried out on both sides of the river.

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
5.13	**Setting up of Bio diversity parks on flood plains by removing encroachments.**	31.03.2022	Extensive river side plantation has been carried out on both sides of the river. Proper monitoring are being done by Concerned District administration to prohibit any kind of illegal encroachment in the river stretches.
5.14	**Awareness Generation**	Continuous activity	Extensive awareness activities are going on involving Eco Club Schools, NGOs and representatives of Urban Local Bodies. Awareness programmes has been organized by involving students of the different Schools for creating awareness about river water pollution. . School level awareness has been done through drama, science seminar and quiz competition for mass awareness generation and restoration of Haora river.

NAME OF RIVER : THE JURI RIVER (ALONG DHARMANAGAR)

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
1	**Ensure 100 % treatment of sewage at least in situ remediation**	31.03.2022	A Detailed Project Report for Installation of Sewage Treatment Plant at middle point between Dharmanagar and Kailasahar Municipal area having capacity of 8 MLD is being formulated for submission to concerned Ministry, Government of India. However, all the ULBs has been directed to construct low cost STPs as the water quality of all the six rivers and stretches are within prescribed standard.
	Commencement of setting up of STPs and Connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2022	Channelization including diversion of sewage generated from household townships to sewer lines /interception of all the drains presently carrying sewage and for ensuring proper treatment through the upcoming STPs will be done after installation of STP.
2	**Time line for completing all steps of action plans including completion of setting up of STPs and their commissioning**	31.03.2022	All the ULBs has been directed to construct low cost STPs as the water quality of all the six rivers and stretches are within prescribed standard.

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs- Compliance Status
3	**Chief secretaries may set up appropriate monitoring mechanism at state level.** **Specifying accountability of nodal Authorities not below the secretary level.** **Chief may have an accountable person attached in their office for this purpose.**	Continuous activity	State level committee has been notified under the chairmanship of Chief Secretary to Monitor the overall progress of the compliance. In addition, a committee has been constituted namely the River Rejuvenation Committee (RRC) to look after the progress of the implementation of the action plan for restoration of the river stretches. A district level committee has been constituted which is also known as district task force for overall monitoring of the implementation of the action plan
	Monitoring at state level must take place	Fortnightly commencing 21.12.2019	State level committee meeting under the chairmanship of the Chief Secretary have been conducted monthly to monitor the overall progress at the state level and River Rejuvenation Committee (RRC) also holding meeting regularly.
4	**Progress report may be furnished by the states/UTs to** • **Secretary, Ministry of Jal Shakti** • **Member Secretary, CPCB**	Monthly (Preferably before 20th of every month)	Monthly progress report will be sent to Secretary, Ministry of Jal Shakti and Member Secretary, CPCB
5.1	**Identification of polluting sources including drains contributing to**	31.03.2021	Identification of all the industries located in and around 500 meters of the Juri river stretches has been done. A total of 5 small industries were found in the identified river stretches of

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
	river pollution and action as per NGT order on in-situ treatment.		Haora river. Identification of drains (if any) is being done by the district level monitoring committee. However, wire mesh has been installed in all the drains. Tripura is already declared as ODF state. So, no such Kachha Latrine are there to discharge the human excrita directly in the river water.
5.2	**Status of STPs, I & D and sewerage Networks**	31.03.2022	As the BOD values of the river water and river stretches are within prescribed standard limit, all the ULBs are communicated for installation of low cost STP.
5.3	**Status of CETPs** **Details of existing CETP and ETP infrastructure, gap analysis proposed with completion timeline, No. of industries and complying status.**	31.03.2022	**ETP:** Direction has been issued by the Tripura State Pollution Control Board to all industrial units situated at the catchment areas of the river for installation of ETP. ETP has been constructed in almost all the industries where ever required. Though, very small amount of industries have the requirement of installation of ETP. **CETP:** CETP is not required in this specific river stretch as the BOD level is under the prescribed standard.
5.4	**Status of Solid Waste Management and details of processing facilities** **(Details of Existing Infrastructure, Gap analysis,**	31.03.2020	Door to Door Collection has been started involving women SHGs . The collected wastes after source segregation are transported to Solid waste processing site .
		31.03.2021	Strengthening of Solid Waste Management Disposal Site is being done.
		Continuous activity.	Sign Board for prohibition of disposal of municipal plastic, bio- medical wastes and other wastes has been displayed at different locations within municipality area. Fitting fixing

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
	Proposal along with completion timeline.)		of wire mesh to protect plastic flow work at four feeder point is going on. Source segregation of different types of wastes is carried out involving women SHGs**.**
			Approximately 22.4 TDP solid waste has been generated under Dharmanagar municipal Council. All most all the Wards are being engaged with women SHGs for collection and segregation of solid wastes before further disposal into solid waste disposable site. No such gap found between current status and desirable level.
5.5	**Latest Water Quality of Polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river.**	Continuous activity	Tripura State Pollution Control Board (TSPCB) is conducting water quality monitoring on monthly basis under National Water Quality Monitoring Programme (NWMP) of Central Pollution Control Board for the following six identified polluted river and river stretches in the State. The month wise latest analytical report in respect of BOD values for the six identified polluted river stretches are at **Annexure-1.**
5.6	**Preventing Dumping of waste and scientific waste management including Bio Medical waste and decentralizing waste processing including waste generated from Hotels and**	31.03.2021	Dumping of solid wastes is strictly prohibited in river and river stretches by using bylaws. Trainings to all healthcare workers and others, involved in handling of bio-medical waste have been provided at the time of induction. Strict monitoring are being done by the Health department as well as Tripura State Pollution Control Board so that no Bio medical wastes dumped into the river. Amongst the Public Health Facilities 03 state level hospitals namely GBP Hospital, IGM Hospital & Cancer hospital have their own incinerator. Other Public Health Facilities are

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
	ashrams etc.		managing the biomedical waste through disinfection, deep burial & sharp pits. However, one CBWTF Operator has been selected by Health & Family Welfare Department, Govt. of Tripura through open tendering through e-Procurement for the whole State of Tripura to cater to all 126 Public Health Facilities having estimated 4319 beds. EC has been issued in favour of the said project. The concerned agency has been instructed to expedite the process for infrastructure development as well as setting up of the facility at an early date.
5.7	**Ground Water regulation**	Continuous activity	Assessment of Ground water in all the identified locations has been done by the Tripura State Pollution Control Board on a regular basis. So far, there is no contamination observed.
		Continuous activity.	Direction has been issued to obtain the NOC from Central Ground Water Authority to all the Industrial units located in the catchment areas of Juri River. Many of the units have also submitted the declarations along with the NOC from Central Ground Water Authority.
5.8	**Adopting good irrigation practice**	Continuous activity	Generation of mass awareness to conserve water and also for good irrigation practices is being carried out by the farmers in the catchment areas of Juri River.
5.9	**Protection and Management of Flood Plain Zone (FPZ)**	Continuous activity	Bamboo Plantation on sides of the river banks has been done in collaboration with Forest Department, Tripura. Target achieved 100%.
		Continuous activity	Regular monitoring is going on to check illegal encroachment.

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
5.10	Rain Water Harvesting	Continuous activity	All the industries using in the catchment areas responsible for using ground water for industrial purpose is directed to construct rain water harvesting plant and the compliance has been ensured.
5.11	**Environmental Flow (E-Flow)**	31.03.2022	Tender has been invited for installation of digital e-flow meter to monitor the minimum discharge during lean period and records to be maintained monthly basis after installation.
5.12	**Plantation on both sides of the river**	31.03.2020	Extensive river side plantation has been carried out on both sides of the river.
5.13	**Setting up of Bio diversity parks on flood plains by removing encroachments.**	31.03.2022	Extensive river side plantation has been carried out on both sides of the river. Proper monitoring are being done by Concerned District administration to prohibit any kind of illegal encroachment in the river stretches.
5.14	**Awareness Generation**	Continuous activity	Extensive awareness activities are going on involving Eco Club Schools, NGOs and representatives of Urban Local Bodies. Awareness programmes has been organized by involving students of the different Schools for creating awareness about river water pollution. . School level awareness has been done through drama, science seminar and quiz competition for mass awareness generation and restoration of Juri river.

NAME OF RIVER: THE KHOWAI RIVER (ALONG TELIAMURA)

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
1	**Ensure 100 % treatment of sewage at least in situ remediation**	31.03.2022	A Detailed Project Report for Installation of Sewage Treatment Plant having capacity of 8 MLD is being formulated for submission to concerned Ministry, Government of India. However, all the ULBs has been directed to construct low cost STPs as the water quality of all the six rivers and stretches are within prescribed standard.
	Commencement of setting up of STPs and Connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2022	Channelization including diversion of sewage generated from household townships to sewer lines /interception of all the drains presently carrying sewage and for ensuring proper treatment through the upcoming STPs will be done after installation of STP.
2	**Time line for completing all steps of action plans including completion of setting up of STPs and their commissioning**	31.03.2022	All the ULBs has been directed to construct low cost STPs as the water quality of all the six rivers and stretches are within prescribed standard.

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs- Compliance Status
3	**Chief secretaries may set up appropriate monitoring mechanism at state level.** **Specifying accountability of nodal Authorities not below the secretary level.** **Chief may have an accountable person attached in their office for this purpose.**	Continuous activity	State level committee has been notified under the chairmanship of Chief Secretary to Monitor the overall progress of the compliance. In addition, a committee has been constituted namely the River Rejuvenation Committee (RRC) to look after the progress of the implementation of the action plan for restoration of the river stretches. A district level committee has been constituted which is also known as district task force for overall monitoring of the implementation of the action plan
	Monitoring at state level must take place	Fortnightly commencing 21.12.2019	State level committee meeting under the chairmanship of the Chief Secretary have been conducted monthly to monitor the overall progress at the state level and River Rejuvenation Committee (RRC) also holding meeting regularly.
4	**Progress report may be furnished by the states/UTs to** • **Secretary, Ministry of Jal Shakti** • **Member Secretary, CPCB**	Monthly (Preferably before 20th of every month)	Monthly progress report will be sent to Secretary, Ministry of Jal Shakti and Member Secretary, CPCB
5.1	**Identification of polluting sources including drains contributing to**	31.03.2021	Identification of all the industries located in and around 500 meters of the Khowai river stretches has been done. A total of 5 small industries were found in the identified river

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
	river pollution and action as per NGT order on in-situ treatment.		stretches of Khowai river. Identification of drains (if any) is being done by the district level monitoring committee. However, wire mesh has been installed in all the drains. Tripura is already declared as ODF state. So, no such Kachha Latrine are there to discharge the human excrita directly in the river water.
5.2	**Status of STPs, I & D and sewerage Networks**	31.03.2022	As the BOD values of the river water and river stretches are within prescribed standard limit, all the ULBs are communicated for installation of low cost STP.
5.3	**Status of CETPs** **Details of existing CETP and ETP infrastructure, gap analysis proposed with completion timeline, No. of industries and complying status.**	31.03.2022	**ETP:** Direction has been issued by the Tripura State Pollution Control Board to all industrial units situated at the catchment areas of the river for installation of ETP. ETP has been constructed in almost all the industries where ever required. Though, very small amount of industries have the requirement of installation of ETP. **CETP:** CETP is not required in this specific river stretch as the BOD level is under the prescribed standard.
5.4	**Status of Solid Waste Management and details of processing facilities** **(Details of Existing Infrastructure, Gap analysis,**	31.03.2020	Door to Door Collection has been started involving women SHGs . The collected wastes after source segregation are transported to Solid waste processing site .
		31.03.2021	Strengthening of Solid Waste Management Disposal Site is being done.
		Continuous activity.	Sign Board for prohibition of disposal of municipal plastic, bio- medical wastes and other wastes has been displayed at different locations within municipality area. Fitting fixing

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
	Proposal along with completion timeline.)		of wire mesh to protect plastic flow work at four feeder point is going on. Source segregation of different types of wastes is carried out involving women SHGs**.**
			Approximately 11.4 TDP solid waste has been generated under Teliamura municipal Council. All most all the Wards are being engaged with women SHGs for collection and segregation of solid wastes before further disposal into solid waste disposable site. No such gap found between current status and desirable level.
5.5	**Latest Water Quality of Polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river.**	Continuous activity	Tripura State Pollution Control Board (TSPCB) is conducting water quality monitoring on monthly basis under National Water Quality Monitoring Programme (NWMP) of Central Pollution Control Board for the following six identified polluted river and river stretches in the State. The month wise latest analytical report in respect of BOD values for the six identified polluted river stretches are at **Annexure-1.**
5.6	**Preventing Dumping of waste and scientific waste management including Bio Medical waste and decentralizing waste processing including waste generated from Hotels and**	31.03.2021	Dumping of solid wastes is strictly prohibited in river and river stretches by using bylaws. Trainings to all healthcare workers and others, involved in handling of bio-medical waste have been provided at the time of induction. Strict monitoring are being done by the Health department as well as Tripura State Pollution Control Board so that no Bio medical wastes dumped into the river. Amongst the Public Health Facilities 03 state level hospitals namely GBP Hospital, IGM Hospital & Cancer hospital have their own incinerator. Other Public Health Facilities are

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
	ashrams etc.		managing the biomedical waste through disinfection, deep burial & sharp pits. However, one CBWTF Operator has been selected by Health & Family Welfare Department, Govt. of Tripura through open tendering through e-Procurement for the whole State of Tripura to cater to all 126 Public Health Facilities having estimated 4319 beds. EC has been issued in favour of the said project. The concerned agency has been instructed to expedite the process for infrastructure development as well as setting up of the facility at an early date.
5.7	**Ground Water regulation**	Continuous activity	Assessment of Ground water in all the identified locations has been done by the Tripura State Pollution Control Board on a regular basis. So far, there is no contamination observed.
		Continuous activity.	Direction has been issued to obtain the NOC from Central Ground Water Authority to all the Industrial units located in the catchment areas of Khowai River. Many of the units have also submitted the declarations along with the NOC from Central Ground Water Authority.
5.8	**Adopting good irrigation practice**	Continuous activity	Generation of mass awareness to conserve water and also for good irrigation practices is being carried out by the farmers in the catchment areas of Khowai River.
5.9	**Protection and Management of Flood Plain Zone (FPZ)**	Continuous activity	Bamboo Plantation on sides of the river banks has been done in collaboration with Forest Department, Tripura. Target achieved 100%.
			Regular monitoring is going on to check illegal encroachment.

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
5.10	Rain Water Harvesting	Continuous activity	All the industries using in the catchment areas responsible for using ground water for industrial purpose is directed to construct rain water harvesting plant and the compliance has been ensured.
5.11	**Environmental Flow (E-Flow)**	31.03.2022	Tender has been invited for installation of digital e-flow meter to monitor the minimum discharge during lean period and records to be maintained monthly basis after installation.
5.12	**Plantation on both sides of the river**	31.03.2020	Extensive river side plantation has been carried out on both sides of the river.
5.13	**Setting up of Bio diversity parks on flood plains by removing encroachments.**	31.03.2022	Extensive river side plantation has been carried out on both sides of the river. Proper monitoring are being done by Concerned District administration to prohibit any kind of illegal encroachment in the river stretches.
5.14	**Awareness Generation**	Continuous activity	Extensive awareness activities are going on involving Eco Club Schools, NGOs and representatives of Urban Local Bodies. Awareness programmes has been organized by involving students of the different Schools for creating awareness about river water pollution. . School level awareness has been done through drama, science seminar and quiz competition for mass awareness generation and restoration of Khowai river.

NAME OF RIVER : THE MANU RIVER (ALONG KAILASAHAR)

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
1	**Ensure 100 % treatment of sewage at least in situ remediation**	31.03.2022	A Detailed Project Report (DPR) is being formulated for Installation of Sewage Treatment Plant having capacity of 8 MLD at middle point between Dharmanagar and Kailasahar Municipal area. However, all the ULBs has been directed to construct low cost STPs as the water quality of all the six rivers and stretches are within prescribed standard.
	Commencement of setting up of STPs and Connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2022	Channelization including diversion of sewage generated from household townships to sewer lines /interception of all the drains presently carrying sewage and for ensuring proper treatment through the upcoming STPs will be done after installation of STP.
2	**Time line for completing all steps of action plans including completion of setting up of STPs and their commissioning**	31.03.2022	All the ULBs has been directed to construct low cost STPs as the water quality of all the six rivers and stretches are within prescribed standard.

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs- Compliance Status
3	**Chief secretaries may set up appropriate monitoring mechanism at state level.** **Specifying accountability of nodal Authorities not below the secretary level.** **Chief may have an accountable person attached in their office for this purpose.**	Continuous activity	State level committee has been notified under the chairmanship of Chief Secretary to Monitor the overall progress of the compliance. In addition, a committee has been constituted namely the River Rejuvenation Committee (RRC) to look after the progress of the implementation of the action plan for restoration of the river stretches. A district level committee has been constituted which is also known as district task force for overall monitoring of the implementation of the action plan
	Monitoring at state level must take place	Fortnightly commencing 21.12.2019	State level committee meeting under the chairmanship of the Chief Secretary have been conducted monthly to monitor the overall progress at the state level and River Rejuvenation Committee (RRC) also holding meeting regularly.
4	**Progress report may be furnished by the states/UTs to** • **Secretary, Ministry of Jal Shakti** • **Member Secretary, CPCB**	Monthly (Preferably before 20th of every month)	Monthly progress report will be sent to Secretary, Ministry of Jal Shakti and Member Secretary, CPCB
5.1	**Identification of polluting sources including drains contributing to**	31.03.2021	Identification of all the industries located in and around 500 meters of the Manu river stretches has been done. A total of 10 small industries were found in the identified river stretches of

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
	river pollution and action as per NGT order on in-situ treatment.		Manu river. Identification of drains (if any) is being done by the district level monitoring committee. However, wire mesh has been installed in all the drains. Tripura is already declared as ODF state. So, no such Kachha Latrine are there to discharge the human excrita directly in the river water.
5.2	**Status of STPs, I & D and sewerage Networks**	31.03.2022	As the BOD values of the river water and river stretches are within prescribed standard limit, all the ULBs are communicated for installation of low cost STP.
5.3	**Status of CETPs** **Details of existing CETP and ETP infrastructure, gap analysis proposed with completion timeline, No. of industries and complying status.**	31.03.2022	**ETP:** Direction has been issued by the Tripura State Pollution Control Board to all industrial units situated at the catchment areas of the river for installation of ETP. ETP has been constructed in almost all the industries where ever required. Though, very small amount of industries have the requirement of installation of ETP. **CETP:** CETP is not required in this specific river stretch as the BOD level is under the prescribed standard.
5.4	**Status of Solid Waste Management and details of processing facilities** **(Details of Existing Infrastructure, Gap analysis,**	31.03.2020	Door to Door Collection has been started involving women SHGs . The collected wastes after source segregation are transported to Solid waste processing site .
		31.03.2021	Strengthening of Solid Waste Management Disposal Site is being done.
		Continuous activity.	Sign Board for prohibition of disposal of municipal plastic, bio- medical wastes and other wastes has been displayed at different locations within municipality area. Fitting fixing

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
	Proposal along with completion timeline.)		of wire mesh to protect plastic flow work at four feeder point is going on. Source segregation of different types of wastes is carried out involving women SHGs**.**
			Approximately 13.2 TDP solid waste has been generated under Kailashahar municipal Council. All most all the Wards are being engaged with women SHGs for collection and segregation of solid wastes before further disposal into solid waste disposable site. No such gap found between current status and desirable level.
5.5	**Latest Water Quality of Polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river.**	Continuous activity	Tripura State Pollution Control Board (TSPCB) is conducting water quality monitoring on monthly basis under National Water Quality Monitoring Programme (NWMP) of Central Pollution Control Board for the following six identified polluted river and river stretches in the State. The month wise latest analytical report in respect of BOD values for the six identified polluted river stretches are at **Annexure-1.**
5.6	**Preventing Dumping of waste and scientific waste management including Bio Medical waste and decentralizing waste processing including waste generated from Hotels and ashrams etc.**	31.03.2021	Dumping of solid wastes is strictly prohibited in river and river stretches by using bylaws. Trainings to all healthcare workers and others, involved in handling of bio-medical waste have been provided at the time of induction. Strict monitoring are being done by the Health department as well as Tripura State Pollution Control Board so that no Bio medical wastes dumped into the river. Amongst the Public Health Facilities 03 state level hospitals namely GBP Hospital, IGM Hospital & Cancer hospital have their own incinerator. Other Public Health Facilities are managing the biomedical waste through

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
			disinfection, deep burial & sharp pits. However, one CBWTF Operator has been selected by Health & Family Welfare Department, Govt. of Tripura through open tendering through e-Procurement for the whole State of Tripura to cater to all 126 Public Health Facilities having estimated 4319 beds. EC has been issued in favour of the said project. The concerned agency has been instructed to expedite the process for infrastructure development as well as setting up of the facility at an early date.
5.7	**Ground Water regulation**	Continuous activity	Assessment of Ground water in all the identified locations has been done by the Tripura State Pollution Control Board on a regular basis. So far, there is no contamination observed.
		Continuous activity.	Direction has been issued to obtain the NOC from Central Ground Water Authority to all the Industrial units located in the catchment areas of Manu River. Many of the units have also submitted the declarations along with the NOC from Central Ground Water Authority.
5.8	**Adopting good irrigation practice**	Continuous activity	Generation of mass awareness to conserve water and also for good irrigation practices is being carried out by the farmers in the catchment areas of Manu River.
5.9	**Protection and Management of Flood Plain Zone (FPZ)**	Continuous activity	Bamboo Plantation on sides of the river banks has been done in collaboration with Forest Department, Tripura. Target achieved 100%.
		Continuous activity	Regular monitoring is going on to check illegal encroachment.

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by the State/UTs-Compliance Status
5.10	Rain Water Harvesting	Continuous activity	All the industries using in the catchment areas responsible for using ground water for industrial purpose is directed to construct rain water harvesting plant and the compliance has been ensured.
5.11	**Environmental Flow (E-Flow)**	31.03.2022	Tender has been invited for installation of digital e-flow meter to monitor the minimum discharge during lean period and records to be maintained monthly basis after installation.
5.12	**Plantation on both sides of the river**	31.03.2020	Extensive river side plantation has been carried out on both sides of the river.
5.13	**Setting up of Bio diversity parks on flood plains by removing encroachments.**	31.03.2022	Extensive river side plantation has been carried out on both sides of the river. Proper monitoring are being done by Concerned District administration to prohibit any kind of illegal encroachment in the river stretches.
5.14	**Awareness Generation**	Continuous activity	Extensive awareness activities are going on involving Eco Club Schools, NGOs and representatives of Urban Local Bodies. Directorate of Higher Education have taken many initiative involving the students for restoration of Manu river through rally, discussion, under Kailasahar & Kumarghat Subdivision about the river water pollution.

Annexure-1

BIO-CHEMICAL OXYGEN DEMAND OF SURFACE WATER SAMPLES IN THE YEAR OF 2016

Sl. No	Month	River																	
		Burigaon	Gumati						Haora					Manu	Khowai				Juri
Sample Code		S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	S-9	S-10	S-11	S-12	S-13	S-14	S-15	S-16	S-17	S-18
1.	January																		
2.	February																		
3.	March																		
4.	April																		
5.	May																		
6.	June	**3.89**	1.99	**3.86**	1.71	1.01	1.61	2.17	**3.93**	**3.02**	0.79	1.30	1.51	**3.49**	1.13	2.04	2.61	2.57	**4.85**
7.	July	**3.15**	1.57	**3.59**	1.06	1.23	1.54	2.18	**3.08**	**3.17**	0.75	1.47	1.32	**3.35**	1.29	2.13	2.09	2.61	**4.31**
8.	August	**3.08**	1.21	**3.13**	1.05	1.07	1.38	2.05	1.03	**3.05**	0.68	1.09	1.18	**3.01**	1.19	1.89	1.87	2.57	**4.09**
9.	September	2.88	1.05	**3.01**	0.89	1.01	1.05	1.76	2.09	2.31	0.57	0.69	1.05	2.59	1.01	1.63	1.04	2.01	**3.56**
10.	October	2.33	1.01	2.95	0.75	0.89	0.95	1.65	1.97	2.15	0.48	0.61	0.91	2.31	0.89	1.51	1.04	1.85	**3.21**
11.	November	2.07	0.87	2.31	0.58	0.75	0.88	1.23	1.08	2.08	0.39	0.49	0.88	2.05	0.81	1.37	0.87	1.59	**3.08**
12.	December	1.93	0.63	2.05	0.37	0.61	0.77	1.09	1.02	1.98	0.21	0.28	0.81	1.85	0.57	1.21	0.81	1.31	2.77

Ranjib [illegible]
Jr. Scient[illegible] Assistant
TSPCB, Agartala.

Scanned by CamScanner

BIO-CHEMICAL OXYGEN DEMAND OF SURFACE WATER SAMPLES IN THE YEAR OF 2017

Sl. No	Month	River																	
		Burigaon	Gumati						Haora					Manu	Khowai				Juri
Sample Code		S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	S-9	S-10	S-11	S-12	S-13	S-14	S-15	S-16	S-17	S-18
1.	January	1.69	0.41	1.93	0.31	0.55	0.70	0.98	0.91	1.57	0.13	0.20	0.55	1.43	0.39	1.01	0.75	1.08	2.35
2.	February	1.30	0.32	1.75	0.25	0.48	0.55	0.90	0.84	1.32	0.11	0.15	0.50	1.18	0.31	0.78	0.68	0.59	2.08
3.	March	1.45	0.38	1.58	0.29	0.53	0.72	1.18	0.92	1.54	0.18	0.19	0.62	1.27	0.42	0.82	0.74	0.65	2.15
4.	April	1.54	0.18	1.64	0.35	0.64	0.78	1.06	1.08	1.62	0.28	0.28	0.78	1.38	0.54	0.98	0.88	0.88	2.24
5.	May	1.68	0.35	1.98	0.46	0.78	0.98	1.14	1.28	1.84	0.42	0.35	0.88	1.48	0.68	1.24	0.94	0.94	2.38
6.	June	1.84	0.28	2.32	0.52	0.88	0.96	1.08	1.32	1.98	0.94	0.86	1.24	1.58	0.84	1.48	1.24	1.25	2.54
7.	July	1.98	0.34	2.08	0.94	1.28	1.24	1.28	1.54	2.08	1.28	1.24	1.48	1.74	0.96	1.64	1.36	1.48	2.68
8.	August	2.28	0.86	2.44	1.34	1.54	1.38	1.96	1.88	2.36	1.36	1.68	1.88	1.88	1.34	1.88	1.88	1.68	2.88
9.	September	2.02	0.58	2.18	1.14	1.28	1.26	1.64	1.56	2.14	1.22	1.38	1.56	1.52	1.08	1.62	1.46	1.48	2.38
10.	October	1.58	0.28	1.56	0.84	0.96	1.04	1.18	1.08	1.38	1.04	1.04	1.22	1.18	0.58	1.24	1.24	1.14	2.04
11.	November	1.14	0.20	1.18	0.68	0.74	0.64	1.02	0.56	1.04	0.68	0.84	1.04	1.08	0.42	1.08	1.04	1.04	1.46
12.	December	0.94	0.12	1.16	0.44	0.58	0.48	0.68	0.44	0.68	0.52	0.54	0.68	0.56	0.36	0.88	0.82	0.52	1.08

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BIO-CHEMICAL OXYGEN DEMAND OF SURFACE WATER SAMPLES IN THE YEAR OF 2018

Sl. No	Month	River																	
		Burigaon	Gumati						Haora					Manu	Khowai				Juri
Sample Code		S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	S-9	S-10	S-11	S-12	S-13	S-14	S-15	S-16	S-17	S-18
1.	January	0.72	0.10	0.72	0.36	0.36	0.36	0.46	0.32	0.54	0.46	0.38	0.56	0.40	0.22	0.62	0.68	0.40	0.78
2.	February	0.58	0.18	0.58	0.28	0.28	0.24	0.34	0.24	0.36	0.38	0.20	0.38	0.36	0.20	0.48	0.52	0.34	0.56
3.	March	0.40	0.24	0.40	0.34	0.36	0.32	0.38	0.28	0.30	0.26	0.26	0.32	0.38	0.24	0.42	0.46	0.38	0.32
4.	April	0.32	0.18	0.22	0.26	0.22	0.26	0.26	0.22	0.22	0.20	0.22	0.26	0.30	0.20	0.36	0.32	0.32	0.56
5.	May	0.68	0.66	1.82	0.66	1.08	0.78	0.82	1.28	0.38	0.48	0.46	0.38	0.98	0.44	0.48	0.54	0.58	1.28
6.	June	1.22	0.48	1.24	0.74	0.96	0.56	0.82	1.06	0.94	0.86	0.58	0.86	0.82	0.56	0.94	0.88	0.98	1.06
7.	July	1.06	0.40	1.08	0.62	0.78	0.48	0.68	0.84	0.88	0.68	0.48	0.64	0.64	0.42	0.46	0.54	0.82	0.68
8.	August	0.74	0.46	0.74	0.54	0.62	0.42	0.52	0.68	0.72	0.54	0.40	0.58	0.52	0.36	0.42	0.44	0.70	0.48
9.	September	1.22	0.40	0.58	0.94	0.54	0.58	0.78	0.52	0.66	0.86	0.88	0.92	0.84	0.42	0.36	0.62	1.08	0.64
10.	October	1.02	0.40	0.58	0.68	0.38	0.44	0.66	0.50	0.52	0.58	0.54	0.64	0.58	0.30	0.30	0.54	0.86	0.48
11.	November	0.78	0.62	0.64	0.52	0.24	0.36	0.52	0.38	0.48	0.34	0.32	0.52	0.36	0.26	0.22	0.46	0.58	0.26
12.	December	1.06	0.54	0.46	1.06	1.58	0.86	0.94	0.32	0.36	0.36	1.06	1.06	0.66	0.34	0.46	0.38	0.36	0.54

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BIO-CHEMICAL OXYGEN DEMAND OF SURFACE WATER SAMPLES IN THE YEAR OF 2019

Sl. No	Month	River																	
		Burigaon	Gumati						Haora					Manu	Khowai				Juri
Sample Code		S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	S-9	S-10	S-11	S-12	S-13	S-14	S-15	S-16	S-17	S-18
1.	January	1.15	0.84	0.78	0.68	0.48	0.48	0.42	0.54	1.18	0.42	0.54	0.78	0.44	0.34	0.32	0.78	0.78	0.42
2.	February	1.08	0.58	0.84	0.88	0.66	0.72	0.78	0.78	1.26	0.64	0.88	0.66	0.58	0.52	0.64	0.88	0.84	0.58
3.	March	1.38	1.16	1.04	1.16	1.46	0.96	1.52	1.56	1.08	1.26	0.86	1.28	0.86	0.88	0.58	1.22	1.08	0.88
4.	April	1.26	1.58	1.32	1.54	1.86	1.04	1.78	1.84	1.56	1.56	1.26	1.38	1.08	0.98	0.88	0.98	1.14	1.08
5.	May	1.58	1.86	2.04	1.94	1.52	1.28	2.42	1.56	2.44	1.94	1.88	1.42	1.56	1.24	1.08	1.46	1.68	1.46
6.	June	2.52	1.98	2.26	1.58	1.86	1.88	2.88	1.82	2.96	2.32	1.96	1.26	1.66	1.56	1.56	1.58	1.56	1.62
7.	July	2.66	2.02	2.16	1.38	1.52	1.28	2.22	1.56	2.28	1.96	2.36	1.38	1.68	1.64	0.98	1.28	1.38	1.88
8.	August	2.32	1.98	1.84	1.04	1.18	1.02	1.58	1.28	1.04	1.52	1.88	1.22	1.36	1.22	1.14	1.06	1.08	1.56
9.	September	2.02	1.52	1.34	0.86	0.86	0.86	1.26	1.04	1.58	1.18	1.26	1.02	1.08	0.96	0.68	0.66	1.24	1.86
10.	October	1.78	1.08	1.66	1.56	0.58	1.14	1.58	2.16	2.98	2.18	1.54	1.48	1.56	1.48	1.08	2.02	1.56	1.28
11.	November		0.98	1.84	1.26	0.98	1.08	1.26	2.08	2.74	2.08	1.88	1.28	1.22	1.28	0.98	1.58	1.22	0.58
12.	December	1.44	1.04	2.02	1.54	1.26	1.22	1.58	2.38	2.86	1.88	1.48	1.58	1.54	1.56	1.14	1.68	0.68	1.08

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Site of Collection:

S-1; Burigaon River at Bishalgarh, S-2: Gomti River at Jatanbari, S-3: Gomti River at Sonamura, S-4: Gomti River at Rajdharnagar, S-5: Gomti River at Amarpur, S-6: Gomti River at Tirthamukh, S-7: Gomti River at Subhashsetu, S-8: Haora River at Chandrapur, S-9: Haora River at Dashamighat, S-10: Haora River at Aralia, S-11: Haora River at Kalabagan, S-12: Haora River at Joynagar, S-13: River at Kailasahar, S-14: Khowai River at Trishabari, S-15: Khowai River at Kumari Madhuti setu, S-16: Khowai River at Chakmaghat, S-17: Khowai River at Karailong, S-18: Juri River at Krishnapur.

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