

Submission of Monthly Progress Report for the Month of July- August, 2023 in the NGT Matter OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020)

I. Details of Sewage Treatment Plant (STP) :

Existing and operational one 8MLD STP at Barjala, Agartala:

- Total Capacity of STP is 8 MLD
- Septage from Agartala city and surrounding areas are carried in by cesspool emptier vehicle and treated at this plant.
- Present utilization is 5 MLD
- To increase the utilization to optimal capacity, a DPR is under preparation by the Agartala Municipal Corporation amounting Rs.6.18 Cr. State Government has approved the action plan and fund for the same is also sanctioned.

Another 8 MLD STP at Akhaura (under construction phase by Agartala Smart City):

SBR pile, pile cap, beam work completed, STP wall of the approximately 5.5 meters completed, SBR raft work completed. Admin building upto lintel level completed and other works are in progress.

Bio-Remediation/in-Situ Nalla Treatment of Drains

- 5 (five) nos. of Drains flowing to river Haorah are taken up in pilot mode under Agartala Smart City through in-situ nallah treatment. 1 MLD In-Situ Nalla Treatment of 5 (five) nos. of drains flowing to river Haorah under Agartala Smart City is completed and started functioning.
- Land identified in 2 ULBs for oxidation ponds (Kamalpur NP, Bishalgarh MC)

II. Solid Waste Management:

- **Door to Door Waste Collection & Source Segregation of Waste** - Presently 100% door to door waste collection along with source segregation is being practiced in **all 334** wards.
- Total municipal solid waste generated: - 333.1 TPD

- 333.1 TPD is collected, segregated and transported.
- Presently 333.1 TPD waste is being processed.

Bio-Degradable And Non-Biodegradable Waste Processing:

- There are 20 ULBs in the State of Tripura.
- Existing 250 TPD Solid Waste Processing plant at DC Nagar Agartala Municipal Corporation AMC is co-used by Bishalgar MC and 6 TPD Solid Waste Processing plant at Kamalpur NP. For remaining 16 ULBs , Tertiary Waste Treatment Plant (TWTP) 10 TPD each are taken up out of which 11 nos. TWTP (110 TPD) are operationalized & 2 nos. (20 TPD) are ready for inauguration. Remaining 3 nos. are targeted to be operationalized by December, 2023. Jirania will utilize the TWTP of Ranirbazar MC.
- Total 85 nos. Secondary Waste Sorting & Segregation Centre with total 117 TPD are operationalized in 20 ULBs, for dry waste segregation, storage and recycling.
- Total Solid Waste Disposal/ Processing Capacity of the State is 483 TPD

Landfill/ Dumpsite Remediation:

Total 13 nos. Legacy Waste dumpsites have been identified in 13 ULBs as per SBM-U 2.0 Guidelines. All 13 ULBs have floated tender for remediation out of which work orders to agency have been issued by all 13 ULBs. Remediation work has been completed by 3 ULBs already.

Liquid Waste Management: State High Power Committee (SHPC) in the meeting dated 26-12-2022 has approved the Action Plans of 66 MLD, for which Rs.283 Crore has been ring-fenced.

Proposed Facility for Sewage Management in URBAN AREAS:

- 31.5 MLD STP at Kantakhal & Kalapania Khal of AMC - work started.
- 8 MLD STP (at South Zone of Agartala Municipal Corporation) to prevent sewage entering to Howrah river is proposed (from ABD fund of AMC) which is under tendering stage.
- 9.7 MLD In-Situ Nalla in 8 small ULBs - work order issued. Survey works started, physical works will start from October 23 after completion of preliminary works.
- 17.5 MLD STP in 11 ULBs – Total works has been divided in 4 package.
 - 1 no. package tender is opened on 25-08-2023.
 - 2 nos. package will open on 08.09.2023 and retendering has been done for the 4th package.

Total new proposed {(31.5+8) AMC + (9.7+17.5) TUDA} = 66.7 MLD

III.Details of Industrial Pollution:

- **No. of industries in the State:** 2466 Nos. industrial units exist in the state. However, there are only 179 nos. of industrial units identified within the 500 meters of catchment areas of the six identified river stretches in Tripura.
- **No. of water polluting industries in the State:** There are only 179 nos. of industrial units has been identified within 500 meters of the catchment area. Among these 179 nos. of industrial units, only 18 industrial units are foremost generator of industrial effluents. And almost all the industrial units have installed ETPs
- **Quantity of effluent generated from the industries in MLD:** The total industrial discharge from the industries within the 500 meters of catchment area is 14427 LPD. A total of 179 industries are present within 500 meter of the catchment areas of the Six identified river. Out of 179 industries, most of the industries are not generating any industrial effluent and those who generates are already equipped with ETP.

IV. Bio-medical Waste Management:

- **Total Bio-medical generation:** 1940.26 kg/day (For the State)
- **No. of Hospitals and Health Care Facilities:** Total No. of Hospitals and nursing homes: 158 (bedded). 7 (seven) District hospitals are equipped with Liquid Waste Treatment Plant.
- **Status of Treatment Facility/ CBMWTF:** 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. The CBWTF is presently working at Devendra Chandra Nagar in West Tripura District covering all the bedded Hospital of the State. There is no gap in processing the BMW in the State. Amongst the Public Health Facilities 03 state level hospitals namely GBP Hospital, IGM Hospital & Cancer hospital have their own incinerator.

V. Hazardous Waste Management:

- **Total Hazardous Waste generation:** 360.14 MTA
- **No. of Industries generating Hazardous waste:** 172 nos.
- **Treatment Capacity of all TSDFs:** There is no TSDF facility available in the State.
- **Avg. Quantity of Hazardous waste reaching the TSDFs and Treated:** There is no TSDF facility available in the State.
- **Details of on-going or proposed TSDF:** Yet to be finalized.
- **Fresh inventorization of the Hazardous Waste generation** has been done.

VI. Plastic Waste Management:

- Total Plastic Waste generation: As per annual report 2021-22, on PWM Rules, 2016, the amount of Plastic waste generated in the State is: 347.291 TPA.
- Treatment/ Measures adopted for reduction or management of plastic waste: Collected through MRF in each ULBs. There are 13 registered Recyclers in the State.
- Details of Alternate Treatment Technology being adopted by the State/UT : Recently, the State has started using the plastic wastes in road making purpose.
- The RD Department has notified a Policy regarding use of plastic waste in road making in the State.
- Action Plan for phasing out Single Use Plastic is under implementation.

VII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;

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 Stretch Burigaon: along Bishalgarh, Gumti :Telkajila to Amarpur, Haora : Agartala to Champaknagar, 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. According to the latest analytical report of the six river water, the BOD level were found within prescribed standard limit for the 5 identified rivers of Tripura. However, few parameters exceed the normal standard for the Haora river occasionally.

River Wise Details:

Name of the River	River Stretch	Priority	Action Plan under implementation/ Proposed	Present Status
Burigaon	Along Bishalgarh	V	Compressive Action Plan for rejuvenation of the identified river stretches	Since June, 2016, it has been observed that the BOD values for the six identified polluted river
Gumti	Telkajila To	V		

	Amarpur		covering individual rivers have been prepared and submitted to Central Pollution Control Board. The Action Plan is under implementation.	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. According to the latest analytical report of the six river water, the BOD level were found within prescribed standard limit for the 5 (Burigaon, Gomati, Juri, Manu, Khowai) identified rivers of Tripura. However, few parameters exceed the normal standard for the Haora river occasionally. However, implementation of the Action Plan is going on. The River Rejuvenation Committee (RRC), Tripura is reviewing the implementation of the said Action Plan on regular basis.
Haora	Agartala to Champaknagar	V		
Juri	Along Dharmanagar	V		
Khowai	Along Teliamura	V		
Manu	Along Kailashahar	V		
The Water Quality analysis report of the six identified river stretches is enclosed as Annexure-1 .				

VIII. Ground water regulation :

- As per report of the Central Ground Water Board, in Tripura State Annual Replenishable Ground Water Resources is 2.19 billion cubic meter (BCM), Net Annual Ground Water' Availability is 1.97 BCM, Annual Ground Water Draft is 0.17 BCM, Stage of Ground Water Development is 9%. Critical stage of Ground- water development is 70 % or above.
- As per earlier NRDWP guidelines (para 9.4 page number 11), 10% of the NRDWP fund shall be utilized for Sustainability of rural water supply schemes. Relaxation will be available only to those States/ 14 Tripura RRC areas that are 'Water Surplus' (with annual normal rainfall more than 1500mm). In the State of Tripura the average annual rainfall is more than 1500mm recorded.

- In the year 2005, analysis of 3682 water samples was carried out through the All India Institute of Hygiene & Public Health (AIIPH), Kolkata and presence of Arsenic in 8 samples above permissible limit (0.05 mg/ltr as per BIS 10500), iron in 3511 samples above permissible limit (1 mg/ltr as per BIS 10500) were found. No other heavy metals i.e. Lead, Zinc, Manganese were found. The presence of Arsenic beyond permissible limit was detected in Ordinary Hand Pump and Mark-11 only. As Arsenic in drinking water is health hazard, at once all the above 8 no. water sources were sealed and alternative sources were created for drinking water supply to that locality.
- Accordingly, 17 numbers new water testing laboratory in the District and DWS Sub Division level have been setup and strengthened the existing water testing laboratory to develop adequate competency and efficiency of the water quality monitoring & surveillance throughout the State. Every year, almost 80% of water supply sources are being tested through laboratory as well as Field Test Kits and the results are being uploaded in the online IMIS of Ministry of Drinking Water & Sanitation, Government of India.
- From the test results, it is observed that the underground water of Tripura State is mainly infested with iron beyond permissible limit. There is no presence of Arsenic beyond permissible limit in drinking water sources at present. Moreover, presence of Lead, Zinc, Manganese etc. in the drinking water sources is not detected so far. Iron removal plant (IRP) has been installed in almost every places in Tripura.
- While issuing the Consent to Establish & Operate Certificate by TSPCB to any industry where extraction of ground water has been done, the permission of Central Ground Water Authority is required as pre requisite condition for obtaining the consent certificate from Tripura State Pollution Control Board. In addition, the industries using ground water are also being directed to recharge 15 Tripura RRC the ground water through ground water recharging pit.
- Moreover, the industries handling with chemicals and hazardous wastes are also being directed not to inject any chemicals/hazardous wastes into the ground water as well as water body without any treatment.
- Central Ground Water Board under the Ministry of Jal Shakti, Department of Water Resources, Government of India issued Show Cause Notice to 04 nos. of Industries for not applying to the Board to renew the NOC for extracting ground water in due time.
- Direction has been issued to all the industries which are extracting ground water for industrial purpose and also for compliance of environmental norms.

IX. Good irrigation practices being adopted by the State:

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 the River.

X. Rain Water Harvesting:

- 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. Accordingly, Rain water harvesting plant has been constructed by almost all the concerned units.
- A comprehensive Rain water harvesting plan has submitted to CPCB.
- In the new Building Rules, the roof top Rain Water Harvesting systems have been included for all new building.

XI. Demarcation of Floodplain and removal of illegal encroachments:

Flood Plane Zones of six identified river stretches were already identified.

XII. Model River:

The State of Tripura has identified **Haora** river stretch as the **Model River** for implementation of Action Plan for restoration of the river. This is also communicated to the NMCG with a copy to CPCB. Some of the major initiatives taken by the State in this regard are as follows:

- a. 5 (five) drains have been identified discharging in the Haora river. *In situ* Bioremediation is being carried out in those 5 drains. Work is under progress.
- b. Haora River Front Development Project has been launched having several objectives to protect this river.
- c. Extensive river bank plantation has been done already.
- d. Regular monitoring of Water Quality is being done by the State Board.
- e. Flood Plain Zone has been identified.
- f. The river bank is made encroachment free and regular monitoring is being done by the concerned Authority.
- g. Proper monitoring is being done so that no solid waste dumped into the river from nearby markets.

XIII. Plantation activities along the rivers:

Bamboo Plantation on sides of the river banks has been done in collaboration with Forest Department, Tripura. Target achieved 100%.

XIV. Reuse of Treated Water:

- The Urban Development Department and Urban Local Bodies has taken many initiatives for utilization of treated sewage effluent.
- AMC had prepared the Action Plan for utilization of treated waste water from Sewage Treatment Plant (STP) located at Barjala, Tripura RRC Agartala. The said Action Plan was sent to Central Pollution Control Board (CPCB) in March 2019.

- AMC is already using treated waste water from the Barjala (Near Lankamura) STP for various activities including watering of gardens & open space in Agartala city, road watering in dry seasons, irrigation of agricultural fields etc.
- A notification has been issued by AMC to use only treated water for the watering of gardens & open space in Agartala city, road watering in dry seasons and never to allow use of drinking water for these activities. AMC also confirms that presently no surface or ground water is used for watering parks and gardens in the city.
- As per the revised Action Plan for utilization of treated water, the additional steps taken by AMC for full compliance of the Hon'ble NGT order are as follows. A dedicated team is formed to look after the gardens and parks in Agartala city.

ANALYTICAL RESULTS OF SURFACE WATER SAMPLES COLLECTED FROM SIX IDENTIFIED RIVER STRETCH OF TRIPURA

River Stretch	Station Name	January, 21			February, 21			March, 21			April, 21		
		BOD	TC	FC	BOD	TC	FC	BOD	TC	FC	BOD	TC	FC
Gomti	Jatanbari	1.08	170	47	1.36	170	63	1.5	170	58	1.4	210	70
	Sonamura	1.56	210	58	2.48	210	58	2.5	350	47	2.7	240	84
	Rajdharnagar	1.46	150	47	1.58	170	58	1.8	210	33	1.6	210	63
	Amarpur	1.32	150	33	1.48	170	58	1.5	210	47	1.7	220	70
	Tirthamukh	1.14	120	33	1.18	130	47	1.3	140	48	1.3	140	58
Burigaon	Subhashsetu	1.56	150	41	1.64	170	58	1.8	170	58	1.8	220	84
	Bishalgarh	1.46	170	32	1.76	220	40	1.8	280	43	2.1	280	58
Haora	Chandrapur	1.22	150	17	1.56	170	27	1.2	280	15	1.8	210	38
	Dashamighat	1.54	350	63	1.98	350	70	1.6	430	63	2.5	430	84
	Aralia	1.46	210	33	1.74	220	48	1.6	220	43	2.0	280	58
	Kalabagan	1.22	150	33	1.36	170	41	1.1	210	38	1.5	210	48
Manu	Joy nagar	1.36	150	26	1.44	150	32	1.2	170	38	1.8	170	40
	Kailasahar	1.22	110	27	1.32	130	33	1.48	150	38	1.7	170	48
Khowai	Trishabari	1.32	110	33	1.46	120	40	1.1	150	43	1.6	170	63
	Kumari Madhuti setu	1.28	63	21	1.34	110	27	1.2	120	33	1.7	170	40
	Chakmaghat	1.18	63	26	1.42	63	32	1.2	70	40	1.6	94	58
	Karailong	1.42	94	26	1.56	110	32	1.68	150	40	1.8	170	58
Juri	Krishnapur	1.22	94	38	1.56	110	40	1.6	150	43	1.8	170	58
River Stretch	Station Name	May, 21			June, 21			July, 21			August, 21		
		BOD	TC	FC	BOD	TC	FC	BOD	TC	FC	BOD	TC	FC
Gomti	Jatanbari	1.5	220	70	1.8	240	70	1.7	240	70	1.8	280	84
	Sonamura	2.8	280	84	2.9	280	94	2.8	350	94	2.8	430	110
	Rajdharnagar	1.8	240	63	1.9	280	63	2.1	280	63	2.2	280	63
	Amarpur	1.8	240	70	1.9	280	70	1.9	350	70	2.1	350	84
	Tirthamukh	1.6	170	63	1.8	210	63	1.9	220	63	2.1	240	63
Burigaon	Subhashsetu	1.9	240	84	2.1	280	84	2.2	280	84	2.4	280	84
	Bishalgarh	2.5	280	58	2.6	280	63	2.8	350	63	2.9	350	63
Haora	Chandrapur	1.9	240	40	2.3	280	58	2.4	350	63	2.5	350	63
	Dashamighat	2.6	430	94	2.8	540	94	2.9	540	94	3.2	540	94
	Aralia	2.2	350	63	2.6	350	63	2.7	350	63	2.8	350	63
	Kalabagan	1.8	220	58	1.9	240	63	2.1	280	63	2.2	280	63
Manu	Joy nagar	1.9	210	47	1.8	220	48	1.9	240	58	2.1	280	58
	Kailasahar	1.8	210	48	1.9	220	48	2.2	240	58	2.3	240	58
Khowai	Trishabari	1.8	210	63	1.9	220	63	2.1	240	63	2.2	280	63
	Kumari Madhuti setu	1.9	210	49	2.1	220	58	2.4	240	58	2.5	240	58
	Chakmaghat	1.8	110	58	1.9	140	58	2.2	170	58	2.2	210	58
	Karailong	1.9	170	63	2.1	210	63	2.4	240	63	2.5	240	63
Juri	Krishnapur	1.7	210	63	1.8	220	70	1.9	240	70	2.1	240	63

*BOD = Bio Chemical Oxygen Demand, TC = Total Coliform, FC = Faecal Coliform

River Stretch	Station Name	September, 21			October, 21			November, 21			December, 21		
		BOD	TC	FC	BOD	TC	FC	BOD	TC	FC	BOD	TC	FC
Gomti	Jatanbari	1.5	280	84	1.2	240	63	1.1	210	58	1.1	150	38
	Sonamura	2.9	430	120	2.6	430	94	2.4	350	63	2.2	280	58
	Rajdharnagar	2.1	240	58	1.8	210	43	1.6	170	38	1.3	150	58
	Amarpur	1.9	350	79	1.4	220	58	1.2	210	58	1.3	140	58
	Tirthamukh	1.8	220	58	1.1	130	27	1.1	130	26	1.1	98	32
Burigaon	Subhashsetu	2.2	240	63	1.9	170	43	1.6	150	41	1.5	170	58
	Bishalgarh	2.6	350	63	2.4	280	58	2.2	240	49	1.7	210	47
	Chandrapur	2.4	430	63	2.2	350	58	2.1	350	58	1.9	280	47
Haora	Dashamighat	2.9	540	94	2.6	540	84	2.4	430	70	2.5	350	84
	Aralia	2.6	350	58	2.2	280	47	2.1	240	43	1.7	220	58
	Kalabagan	1.9	240	58	1.5	210	41	1.2	170	32	1.3	170	31
Manu	Joy nagar	1.8	240	58	1.4	210	43	1.2	170	33	1.5	110	31
	Kailasahar	2.1	220	48	1.8	170	47	1.6	150	40	1.5	110	41
Khowai	Trishabari	1.9	240	58	1.8	220	47	1.6	210	41	1.2	150	41
	Kumari Madhuti setu	2.3	220	47	1.8	210	40	1.5	210	38	1.5	150	33
	Chakmaghat	2.1	210	47	1.9	210	41	1.7	210	40	1.3	84	33
Juri	Karailong	2.1	220	47	1.8	170	43	1.6	150	41	1.5	130	38
	Krishnapur	1.8	220	48	1.6	210	41	1.4	170	41	1.5	130	47

River Stretch	Station Name	January, 22			February, 22			March, 22			April, 22		
		BOD	TC	FC	BOD	TC	FC	BOD	TC	FC	BOD	TC	FC
Gomti	Jatanbari	1.18	130	41	1.1	130	39	1.3	150	47	1.4	170	58
	Sonamura	2.14	170	58	1.9	150	47	2.1	170	58	2.4	240	63
	Rajdharnagar	1.12	130	47	1.2	110	38	1.4	130	47	1.6	150	58
	Amarpur	1.12	110	38	1.1	94	26	1.3	110	41	1.4	150	58
	Tirthamukh	1.08	84	25	1.1	63	21	1.2	84	34	1.2	110	46
Burigaon	Subhashsetu	1.34	150	48	1.2	130	32	1.5	150	58	1.8	170	63
	Bishalgarh	1.52	170	32	1.3	150	32	1.6	170	39	1.9	240	58
	Chandrapur	1.28	150	22	1.2	120	21	1.5	140	26	1.8	210	48
Haora	Dashamighat	2.26	280	63	2.1	280	47	2.4	350	58	2.7	430	70
	Aralia	1.1	170	41	1.4	150	32	1.8	170	38	1.9	210	58
	Kalabagan	1.22	150	25	1.1	130	21	1.3	170	27	1.4	210	31
	Joy nagar	1.36	84	25	1.2	63	21	1.4	84	26	1.5	94	27
	Kailasahar	1.36	84	33	1.4	94	31	1.4	94	31	1.5	110	39
Manu	Trishabari	1.18	130	38	1.1	120	27	1.3	150	38	1.4	170	41
	Kumari Madhuti setu	1.34	120	21	1.2	110	21	1.4	130	32	1.4	150	40
	Chakmaghat	1.14	58	17	1.1	48	17	1.4	58	17	1.4	63	22
Juri	Karailong	1.38	110	21	1.2	84	21	1.3	94	22	1.3	110	38
	Krishnapur	1.32	110	38	1.4	110	39	1.4	110	39	1.5	120	39

*BOD = Bio Chemical Oxygen Demand, TC = Total Coliform, FC = Faecal Coliform

River Stretch	Station Name		May, 22			June, 22			July, 22			August, 22		
			BOD	TC	FC	BOD	TC	FC	BOD	TC	FC	BOD	TC	FC
Gomti	Jatanbari		1.5	170	63	1.7	210	70	1.9	220	83	1.9	220	83
	Sonamura		2.5	280	70	2.6	350	94	2.7	350	94	2.8	350	94
	Rajdhanagar		1.8	210	58	1.9	220	84	2.1	240	84	2.3	280	94
	Amarpur		1.4	170	58	1.6	210	63	1.7	220	63	1.8	240	63
	Tirthamukh		1.3	120	48	1.4	150	58	1.5	170	63	1.7	210	63
Burigaon	Subhashsetu		1.9	210	63	2.2	240	70	2.4	280	84	2.6	280	84
	Bishalgarh		1.5	280	63	2.4	350	84	2.5	430	110	2.7	430	130
	Chandrapur		2.1	220	58	1.4	240	63	2.2	280	79	2.4	280	63
	Dashamighat		2.8	430	79	2.9	430	84	3.1	430	94	3.3	430	110
	Aralia		2.0	220	63	1.9	240	70	2.5	280	84	2.4	280	94
Haora	Kalabagan		1.5	210	40	1.8	240	47	1.8	240	58	1.9	280	63
	Joyanagar		1.7	150	39	1.9	210	48	1.6	210	48	1.7	220	58
	Kailasahar		1.6	120	48	1.8	130	48	1.9	150	58	1.9	170	58
	Trishabari		1.5	170	43	1.6	210	58	1.5	220	63	1.6	240	63
	Kumari Madhuti setu		1.5	170	40	1.7	210	48	1.8	220	58	1.9	240	58
Khowai	Chakmaghat		1.4	110	38	1.6	140	47	1.7	170	58	1.8	210	58
	Karailong		1.5	120	40	1.6	150	48	1.8	170	58	1.9	210	63
	Krishnapur		1.6	150	48	1.8	170	58	1.9	170	58	2.2	170	58

River Stretch	Station Name		September, 22			October, 22			November, 22			December, 22		
			BOD	TC	FC	BOD	TC	FC	BOD	TC	FC	BOD	TC	FC
Gomti	Jatanbari		1.8	210	70	1.3	150	47	1.2	130	47	1.2	110	43
	Sonamura		2.6	350	84	2.1	220	63	1.1	210	63	1.8	170	63
	Rajdhanagar		2.1	240	94	1.4	150	48	1.3	130	47	1.2	120	41
	Amarpur		1.6	220	58	1.4	130	47	1.3	120	41	1.2	110	39
	Tirthamukh		1.5	170	58	1.1	110	43	1.1	110	41	1.1	110	39
Burigaon	Subhashsetu		2.2	240	70	1.6	150	63	1.5	130	58	1.4	120	49
	Bishalgarh		2.6	430	110	1.8	220	58	1.7	210	58	1.5	170	48
	Chandrapur		2.2	240	63	1.5	210	47	1.3	170	38	1.3	170	38
	Dashamighat		3.1	430	94	2.6	430	70	2.2	430	63	2.1	430	63
	Aralia		2.2	240	84	1.8	210	48	1.7	170	46	1.6	170	43
Haora	Kalabagan		1.7	240	58	1.3	150	31	1.2	130	31	1.2	120	31
	Joyanagar		1.6	210	58	1.4	94	26	1.2	94	26	1.2	94	26
	Kailasahar		1.8	150	47	1.3	110	32	1.2	94	32	1.2	94	26
	Trishabari		1.4	220	63	1.3	150	38	1.2	130	38	1.2	120	32
	Kumari Madhuti setu		1.6	220	58	1.3	150	38	1.3	130	38	1.2	120	38
Khowai	Chakmaghat		1.6	210	48	1.3	63	22	1.2	58	22	1.2	58	22
	Karailong		1.7	170	58	1.2	94	38	1.1	94	33	1.1	94	31
	Krishnapur		2.1	140	43	1.4	110	39	1.5	94	27	1.6	94	27

*BOD = Bio Chemical Oxygen Demand, TC = Total Coliform, FC = Faecal Coliform

River Stretch	Station Name	January, 23			February, 23			March, 23		
		BOD	TC	FC	BOD	TC	FC	BOD	TC	FC
Gomti	Jatanbari	1.1	110	41	1.1	94	39	1.1	110	39
	Sonamura	1.6	150	58	1.5	130	47	1.6	130	48
	Rajdhannagar	1.2	110	41	1.1	110	39	1.2	120	39
	Amarpur	1.1	110	39	1.1	94	27	1.1	94	27
	Tirthamukh	1.1	110	38	1.1	110	38	1.4	110	41
Burigaon	Subhashsetu	1.3	110	47	1.2	110	43	1.2	120	43
	Bishalgarh	1.4	150	47	1.2	130	43	1.2	150	43
	Chandrapur	1.2	140	38	1.2	130	38	1.3	130	38
	Dashamighat	1.9	350	58	1.7	350	49	1.8	350	63
	Aralia	1.4	170	43	1.2	150	43	1.4	170	58
Haora	Kalabagan	1.2	110	31	1.2	110	27	1.2	120	27
	Joyanagar	1.2	94	26	1.2	94	23	1.3	110	25
	Kailasahar	1.1	94	26	1.1	94	26	1.2	110	26
	Trishabari	1.2	110	31	1.1	94	31	1.1	94	31
	Kumari Madhuri setu	1.1	110	33	1.1	110	31	1.2	130	38
Khowai	Chakmaghat	1.2	58	22	1.2	49	22	1.2	63	25
	Karailong	1.1	84	31	1.1	63	27	1.2	79	27
Juri	Krishnapur	1.4	84	27	1.3	84	27	1.3	94	31

River Stretch	Station Name	April, 23			May, 23		
		BOD	TC	FC	BOD	TC	FC
Gomti	Jatanbari	1.3	120	41	1.4	130	47
	Sonamura	1.8	150	58	1.9	170	63
	Rajdharnagar	1.2	130	47	1.3	150	58
	Amarpur	1.3	110	38	1.3	110	46
	Tirthamukh	1.5	120	47	1.5	130	58
	Subhashsetu	1.3	120	48	1.4	120	58
	Bishalgarh	1.3	150	58	1.6	170	84
Burigaon	Chandrapur	1.3	150	47	1.5	170	63
	Dashamighat	1.9	350	84	2.1	430	110
Haora	Aralia	1.4	220	63	1.5	240	63
	Kalabagan	1.3	130	39	1.3	150	43
	Joyanagar	1.4	120	32	1.4	150	38
	Kailasahar	1.2	120	32	1.3	130	41
Manu	Trishabari	1.2	110	31	1.3	120	34
	Kumari Madhuti setu	1.3	130	41	1.3	130	43
Khowai	Chakmaghat	1.4	110	31	1.5	170	47
	Karailong	1.3	94	31	1.3	120	38
Juri	Krishnapur	1.3	110	38	1.3	120	38

*BOD = Bio Chemical Oxygen Demand, TC = Total Coliform, FC = Faecal Coliform

A. Materials and Methods:

Surface water samples from the six identified river stretches of Tripura were collected on monthly basis. The collected samples were analyzed in the laboratory of TSPCB using the standard methods given in **APHA, 2012** (*American Public Health Association*).

B. Observations:

From the analytical results for the year of 2021-2023 (January, 2021 to May, 2023) it has been observed that, among the six identified rivers stretches in Tripura, 5 stretches having BOD, Total Coliform & Faecal Coliform values were within the prescribed standard limit of CPCB for Class-B (Water for Outdoor Bathing). The BOD values of one river stretch that is Haora River were slightly beyond the prescribed standard limit of CPCB for particular one location (Dashamighat, Haora) for few months only (August, 2021 & July, August & September, 2022).

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