



ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ
Karnataka State Pollution Control Board

“ಪರಿಸರ ಭವನ”, 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ. 49, ಚರ್ಚ್ ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ ರಾಜ್ಯ, ಭಾರತ
“Parisara Bhavan”, 1st to 5th Floor, # 49, Church Street, Bangalore - 560 001, Karnataka State, India

No. KSPCB/CEO-2/673-2018/2023-24/ 347

Date: 25 APR 2024

To,

D.P. Mathuria,
Executive Director-Technical,
Central Monitoring Committee,
National Mission for Clean Ganga,
1st floor, Major Dhyan Chand National Stadium,
India Gate, New Delhi-110002.

Sir,

Sub: Submission of Dossier for the month of March 2024 for the State of Karnataka in the matter of OA 673/2018 - reg.

Adverting to the above subject, please find the Dossier for the month of March 2024 for the State of Karnataka as per the directions given by the Hon'ble NGT in the matter of OA 673/2018.

As per the latest report published by CPCB on Polluted River Stretches for Restoration of Water Quality – 2022, five rivers namely Malaprabha, Asangi-Krishna, Yagachi, Kumaradhara and Kali Polluted River Stretches (PRS) have been removed from the earlier PRS list and is observed that five rivers namely Aghanashini (along Kumata), Sharavathi (along Honnavara), Tenpennai (along Kodiyalam), Dakshina Pinakini (along Mugalur) and Gangavali (along Ankola) have been newly added to the existing list of PRS.

The PRS Tenpennai (along Kodiyalam) does not come under the boundary of Karnataka and the same river is known by the name of Dakshina Pinakini in the state of Karnataka which has been identified as the PRS under priority I. Further, the average water quality (BOD value) of remaining three rivers did not exceed 3.0 mg/ltr for the years 2019–2020, 2020–21, 2021–22, and 2022–23. Hence, a letter in this regard has been addressed to

CPCB vide NO.PCB/CEO-2/LAKES/2022-23/4737 dated 14.01.2022 for deleting four PRS namely Tenpennai, Aghanashini Sharavathi and Gangavali.

The KSPCB has instructed the Regional Officers to prepare action plans for newly identified PRS and which is currently under progress. Once the action plans are finalized by the state RRC and approved by the CPCB, the details pertaining to these newly identified rivers will be incorporated in the dossier and submitted to Ministry of Jal Shakti, Govt. of India .

This is for kind information and further needful in the matter.

Yours faithfully,


Member Secretary
KSPCB

Copy to:

The Principal Secretary, Department of Ecology and Environment, Government of Karnataka, MS Building, 5/AB, Dr Ambedkar Rd, Ambedkar Veedhi, Bengaluru - for your kind information

National Mission for Clean Ganga

Format for submission of Monthly Progress Report in the NGT Matter OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020)

For the State of KARNATAKA

March 2024

Overall status of the State:

I. Total Population: Urban Population 22941508

II. Estimated Sewage Generation (MLD): 3356.5 MLD

III. Details of Sewage Treatment Plant:

	Overall Karnataka (Annexure 1)		12 PRS (Annexure 2)
Estimated sewage generation	3356.5 MLD		817.31 MLD
Existing no. of STPs	179 STPs	4 FSSM	37 STPs,
Existing treatment Capacity (installed)	2685.32 MLD	0.026 MLD	Capacity = 653.05MLD
	Total = 2685.35MLD		
Capacity Utilization of existing STPs	2058.18 MLD	0.026 MLD	532.4MLD
	Total = 2058.21 MLD		
Percent capacity utilization	76.64%		81.52%
Sewage being treated through Alternate technology (MLD)	• 0.012 MLD through FSSM (0.006MLD in Devanahalli and 0.006 MLD in Nelamangala) • 0.007 MLD through FSSM in Karkala • 0.007 MLD through FSSM in Sakaleshpura.		In-situ bioremediation: proposed for the construction of artificial island in Dorekere (global village Techpark) and Kempambudhi (Sonnenahalli bridge) amounting to ₹62.41 lakh
Gap in Treatment Capacity in MLD	671.2MLD Percentage gap = 19.99%		164.26MLD Percentage gap = 20.09%
Gap in capacity utilization (MLD)	627.09MLD Percentage gap = 23.35 %		120.65MLD Percentage gap = 18.47%
Gap in overall sewage treatment (MLD)	1298MLD Percentage gap = 38.67%		284.91MLD Percentage gap = 34.85%
No. of Operational STPs	167 STPs + 4 FSSM		36 STPs
No. of non-operational	12 STPs (39.26MLD)		1 STP (3.72 MLD)

STPs	(Annexure 3)	
No. of Complying STPs	165 STPs complying	37 STPs complying
No. of Non-complying STPs	2 STPs	-

- **Details of each existing STP in the State: Annexure 1**

177 STPs of existing capacity 2685.35MLD and capacity utilization of 2058.21MLD

- **Details of each existing STP in the 12 PRS ULB: Annexure 2**

38 STPs of existing capacity 653.05MLD and capacity utilization of 532.4MLD

- **Details of non-operational STP in the State: Annexure 3**

12 STPs of operational capacity 39.26MLD

- **Details of under construction STPs in the State: Annexure 4**

74 STPs of capacity 709.11 MLD

- **Details of under construction STPs in the 12 PRS ULB: Annexure 5**

19 STPs of capacity 196.39 MLD

- **Details of proposed STPs in the State: Annexure 6**

94 STPs of capacity 343.23MLD

- **Details of proposed STPs in the 12 PRS ULB: Annexure 7**

15 STPs of capacity 53.28 MLD

IV. Details of Industrial Pollution:

- No. of industries in the State:
- No. of water polluting industries in the State: 3603 (effluent generating only)
- Quantity of effluent generated from the industries in MLD: 436.63 MLD
- Quantity of Hazardous Sludge generated from the Industries in TPD:
- Number of industrial units having ETPs: 3425
- Number of industrial units connected to CETP: 849
- Number and total capacity of ETPs (details of existing/ under construction / proposed): 3424+1 industrial ETPs; existing capacity = 739.641 MLD
- Compliance status of the ETPs:

Number of functional ETPs = 3425

Complying ETPs = 3425

Industries do not require ETP = 14

Industries closed by Board = 48

Self-closed industries = 61

Industries with no ETPs = 55 (most of them are KSRTC Bus Depots).

- Out of 55 KSRTC depots, 35 numbers of depots have now provided with ETPs, 11 ETPs are constructed, yet to be commissioned and 09 ETPs are under construction.
- **Number and total capacity of CETPs (details of existing/ under construction / proposed):** 12 CETPs; total capacity = 7569 KLD
- **Status of compliance and operation of the CETPs**

Sl No	CETP name	Installed capacity (KLD)	Operational capacity (KLD)	No. of member industries	Compliance	Action taken for non-complying CETPs
1	Eco Green Solution Systems Pvt Ltd, KIADB, Doddaballapur	200	197.6	480	Complying	
2	Pai and Pai Chemicals-1	300	240	27	Complying	
3	Pai and Pai Chemicals-2	40	35	9	Complying	
4	Bangalore Eco park	100	96.7	74	Complying	
5	CETP Malur	60	56.98	69	Complying	
6	Govind Solvents	75	68.8	52	Non-Complying	Closure Order issued
7	Viwa eco-club	20	20	40	Complying	
8	CETP Mangalore-1MSEZ	3500	2000	5	Complying	
9	CETP Mangalore-2, Kotepura	600	600	13	Complying	
10	CETP Project Mother Earth Environ Tech Pvt Ltd	500	500	34	Complying	
11	CETP, Bidar, KIADB, Phase-2, Kolhar Industrial Area, Bidar Tq. & District	1200	100	32	Complying	
12	Innova Agri Bio Park Private Limited Plot No. B-12,, 3rd Phase, KIADB Industrial Area, Malur, Kolar District.	600	600	14	Complying	
		7569	4515.08	849		

Details of proposed CETPs:

District	Address	Status	Designed capacity	Proposed date of
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				completion
Peenya	Peenya industrial area	Tender invited	0.125 MLD	31/03/2024
Bellary	KIADB, 4th stage apparel park	Proposed	Yet to be estimated	31/03/2024

V. Solid Waste Management:

Total number of Urban Local Bodies and their Population: ULBs = 316; Population = 1.5 crores and 1.0 crore in BBMP.

Current Municipal Solid Waste Generation: 12,140 TPD (including BBMP)

Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), biomethanation, MRF etc

Numbers of ULBs	316										
Quantity of MSW generated (TPD)	12140										
Quantity of MSW collected (TPD)	12123										
Quantity of MSW segregated & transported (TPD)	<table> <tr> <td colspan="2">Segregated-</td></tr> <tr> <td>Wet</td><td>4905</td></tr> <tr> <td>Dry</td><td>1682</td></tr> <tr> <td>Domestic Hazards</td><td>52</td></tr> <tr> <td>Total</td><td>6639</td></tr> </table>	Segregated-		Wet	4905	Dry	1682	Domestic Hazards	52	Total	6639
Segregated-											
Wet	4905										
Dry	1682										
Domestic Hazards	52										
Total	6639										
Quantity of MSW processed (TPD)	6639										
Quantity of MSW disposed in secured land fill site (TPD)	995										
Gap in Solid Waste Management UTs (TPD)	5501										
Wet waste generated	6677										
Wet waste: composting, vermicomposting and bio-methanation (TPD)	4905										
Dry waste generated (TPD)	4249										
Dry waste : MRF, recycling and RDF (TPD)	1682										

Details of waste processing in Karnataka

	Total Capacity (TPD)	No. of Units	No. of ULBs covered
Material Recovery facilities(DWCCs)	954	318	218
Recycling		318	218
Composting	4841	216	198
Biomethanation	64	23	23

RDF	-	-	-
Dry waste sent to cement kilns	21634		

- **Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)**

Instructions have been given to ULBs with existing processing facilities to ensure that the existing facility is used to its fullest capacity. Under SBM 1.0, Detailed Project Reports are already prepared and approved by High Power Committee for establishment of waste management facility. These cities are in various tendering stages to establish the facility. Further, under SBM 2.0 action plan has been prepared to augment the existing facility with a project of INR 2058.74 Crores

- **No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)**

Existing: M/s Rock Crystals has obtained Consent for Operation from KSPCB to process 1000 TPD C&D waste from Bengaluru city. The plant is operational since 2015 with an operating capacity of 100-400 TPD.

Proposed:

- City Corporation, Mangalore has obtained CFE for establishing 20 TPD C&D waste processing unit at Pachanady on 30/12/2020.
- Mysuru City Corporation has prepared DPR for 100 TPD capacity of C&D waste processing facility in PPP model.
- Additionally, action plan has been prepared under SBM 2.0 and subsequently sites have been identified for C& D waste processing plant at Shivalli Hubli – Dharwad, Davangere, Belagavi, Mangalore and Kalburgi of 50 TPD capacity each.
- Under SBM 2.0, it is proposed to construct C&D plant of following capacities

Quantity of C&D waste generated (TPD) excluding BBMP	
ULBs that have identified land for C&D waste storage and processing	98
ULBs that have issued notification for collection, transportation and processing charges for C&D waste	110
Total amount collected by defaulters (lakh rupees)	-

- **Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source**

Total no. of wards	wards having d-t-d collection	Wards practicing source segregation
7167	7061	5546

- **Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)**

Components	Existing capacity /under construction	Proposed capacity/Nos	Cost for the proposed capacity (Cr)
Composting	5834	1804.46	207.51
Bio methanation	64	600	108.00
Recycling and MRF	954	4731.11	402.14
Waste to Energy	0	460	82.80
C&D	0	1193	71.56

600 TPD-11.5 MW waste to energy plant is being built by BBMP and KPCL and 200 TPD NTPCL at Dharwad City Corporation. Bangalore: KSPCB has issued the Consent of Establishment for 11.5 MW waste-to-energy plant at Bidadi to Karnataka Power Corporation Limited (KPCL).

- **No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.**

Currently there are 196 cities with dumpsites of total 172.4 lakhs ton metric tons of legacy waste spread over 1177 acres of land. 93 ULBs have Sanitary Landfills sites in the State. 227 ULBs are developing sanitary landfill sites under Swachh Bharat Mission 2.0.

- **No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers**

ULBs have been instructed not to dump the municipal solid waste on the rivers bank. There are 30 cities (Excluding BBMP) located on the River banks of the State out of which 26 cities have finalized their SWM DPRs under Swachh Bharat Mission(U) and are under various stages of implementation.

- **No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers**

Nil

VI. Bio-medical Waste Management:

- Total Bio-medical waste generation: 86286 Kg/d
- No. of Hospitals and Health Care Facilities: 44685
- Status of Treatment Facility/ CBMWTF: 25 operating, 1 closed, 2 under construction (Haveri & Koppal)

VII. Hazardous Waste Management:

- Total Hazardous Waste generation: 292596.61 MT/annum
- No. of Industries generating Hazardous waste: 3511
- Treatment Capacity of all TSDFs: 951000 MT
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated: 50899.73 MT
Incinerable: 29691.84 MT

Recyclable: 115836.06 MT

Utilizable: 96233.61 MT

- Details of on-going or proposed TSDF: One TSDF unit is proposed in Harohalli Industrial Area of Ramanagara District of capacity of 3 lakh tons lifetime capacity. EC has been issued. CFE from the KSPCB is yet to be issued.

VIII. Plastic Waste Management:

- Total Plastic Waste generation: 368080 T/A
- Treatment/ Measures adopted for reduction or management of plastic waste:
 1. Registered recycling units: 143 (till date)
 2. Authorized recycling capacity: 210820.04 MT/annum (till date)
 3. Ban on the use of single use plastic in Karnataka since 2017 as per Plastic Ban Notification issued on 11-03-2016 by Government of Karnataka
 4. 118 closure directions have been issued till date.

IX. Details of Alternate Treatment Technology being adopted by the State/UT 4

- X. The government of Karnataka has approved FSTP at 46 Urban Local Bodies of capacity 165 KLD with an estimated cost of Rs. 89.19 crores. Out of 45 approved FSTPs, 28 no. of FSTPs are under construction phase, 11 are under tendering process and 7 are in DPR preparation. FSSM facility of 15 KLD capacity at Gowribidanur of Chikkaballapur Dist is under construction stage. Further, a proposal has been sent to the Government of Karnataka to provide FSSM facility to 129 ULBs having non-UGD and with less than 50,000 population. Details are enclosed as **Annexure 8**.

XI. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment:

Sl. No	Prio rity	River Name	Polluted Stretch	PRS Lengt h (Km)	No. of drain s
1	PI	Arkavathi	Thippagondanahalli Reservoir to Kanakapura	55	16
2	PIV	Tungabhadra	Harihara to haralahalli	60	6
3	PIV	Bhadhra	Bhadravathi to Holehonnur	10	6
4	PIV	Shimsha	Yedyur to Halagur Bridge stretch	80	1
5	PV	Lakshmanteer tha	Hunasuru to Kattemalalvadi	10	2
6	PV	Cauvery	Muller to Sattegala Bridge, Chamarajanagara; From Ranganattitu Bird Sanctuary, Srirangapattana, to Sattegala Road Bridge, Kollegala	50	18
7	PV	Kabini	Nanjanagud to Hejjige village	9	6
8	PV	Kagina	Shahabad to Hongunta	10	1

9	PV	Krishna	Yadurwadi to Jungurwadi village; Yalagur Village to narayanpur Bridge; North of Uppinhal village in Lingur taluk to Tintini Bridge in Devadurga taluk	189.5 7	38
10	PV	Bhima	Ghanagapur to Yadgir	160	5
11	PV	Netravathi	Uppinagandy to Mangaluru	50	7
12	PV	Tunga	Shivamogga To Kudli	10	6

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

Principal Secretary (Ecology and Environment, Department of Forest Ecology and Environment).

XIII. Details of meetings carried under the Chairmanship Chief of Secretary:

Under the chairmanship of Sri Vijay Kumar Gogi (IFS), Chairman, Karnataka State Pollution Control Board, Principal Secretary, Forest Department of Karnataka, a review meeting was held with the stakeholder departments to discuss the progress and current status through Video conference on 24/08/2020 at the conference room, KSPCB. The meeting was attended (in person as well as through VC) by higher officers from KSPCB, DMA, KUIDFC, KUWS&DB, BWSSB and BBMP. Chairman directed the stakeholder departments to furnish the data and monthly progress relevant to the 17 PRS matter in OA. 673/2018.

Under the chairmanship of Sri Vijay Kumar Gogi (IFS), Chairman, Karnataka State Pollution Control Board, Principal Secretary, Forest Department of Karnataka, a review meeting was held with the stakeholder departments to discuss the progress and current status through Video conference on 29/08/2020 at the conference room, KSPCB. The meeting was attended (in person as well as through VC) by higher officers from KSPCB, DMA, KUIDFC, KUWS&DB, BWSSB and BBMP. Chairman reviewed the data and progress relevant to the 17 PRS matter in OA. 673/2018 furnished by the stakeholder departments. Chairman further directed to provide necessary data on a monthly basis.

Under the chairmanship of Sri Rakesh Singh, Additional Chief Secretary of Government of Karnataka, a review meeting was held with the stakeholder departments to discuss the progress and current status on 09/03/2021 to review the progress in compliance with the issues raised by CMC, Jal Shakti during 9th meeting. The meeting was attended by higher officers from KSPCB, DMA, KUIDFC, KUWS&DB, BWSSB and BBMP. The Chairperson reviewed the data and progress relevant to OA. 673/2018 furnished by the stakeholder departments.

Under the chairmanship of Sri Rakesh Singh, Additional Chief Secretary of Government of Karnataka, a review meeting was held with the stakeholder departments to discuss the progress and current status on 02/07/2021 to review the progress in compliance with the issues raised by CMC, Jal Shakti during 10th meeting. The meeting was attended by higher officers from KSPCB, DMA, KUIDFC, KUWS&DB, BWSSB. The Chairperson reviewed the data and progress relevant to OA. 673/2018 furnished by the stakeholder departments.

Review meeting under the chairmanship of Sri. Brijesh Kumar, Chairman (KSPCB), Principal Secretary (Ecology and Environment, Department of Forest, Ecology and Environment) to review the status and progress was held on 04/09/2021. The meeting was attended by higher officers from KSPCB, DMA, KUIDFC, KUWS&DB, BWSSB, ACIWRM and KBB. The Chairperson reviewed the data and progress relevant to OA. 673/2018 furnished by the stakeholder departments.

Under the chairmanship of Sri Rakesh Singh, Additional Chief Secretary of Government of Karnataka, UDD, a review meeting was held on 07/05/2022 with the stakeholder departments to discuss the progress made in compliance with the issues raised by CMC, Jal Shakti. The meeting was attended by higher officers from KSPCB, DMA, KUIDFC, KUWS&DB and BWSSB. The Chairperson reviewed the data and progress relevant to OA. 673/2018 furnished by the stakeholder departments. The directions were being issued to the stakeholder departments to come up with the actual facts and figures for the next meeting.

Under the chairmanship of Sri Rakesh Singh, Additional Chief Secretary of Government of Karnataka, a review meeting was held on 10/05/2022 with the stakeholder departments to discuss the progress made in compliance with the issues raised by CMC, Jal Shakti. The meeting was attended by higher officers from KSPCB, DMA, KUIDFC, KUWS&DB and BWSSB. The Chairperson reviewed the data and progress relevant to OA. 673/2018 furnished by the stakeholder departments. He further directed the stakeholder to provide necessary data on monthly basis.

Under the chairmanship of Sri Rakesh Singh, Additional Chief Secretary of Government of Karnataka, a review meeting was held on 02/05/2023 with the stakeholder departments to discuss the progress made in compliance with the issues raised by CMC, Jal Shakti. The meeting was attended by higher officers from KSPCB, DMA, KUIDFC, KUWS&DB and BWSSB. The Chairperson reviewed the data and progress relevant to OA. 673/2018 furnished by the stakeholder departments. He further directed the stakeholder to take necessary actions to bring non-operational, non-complying STPs back to operational and complying. Further, directed the stakeholders to rectify the land issue at the ULBs by taking required actions for the construction of STPs.

Under the chairmanship of Sri Rakesh Singh, Additional Chief Secretary of Government of Karnataka, a review meeting was held on 06/05/2023 with the stakeholder departments to discuss the progress made in compliance with the issues raised by CMC, Jal Shakti during the 16th CMC meeting. The meeting was attended by higher officers from KSPCB, DMA, KUIDFC, KUWS&DB and BWSSB. The Chairperson reviewed the data and progress relevant to OA. 673/2018 furnished by the stakeholder departments. He further directed the stakeholder to provide necessary data on monthly basis.

Under the chairmanship of Sri Rakesh Singh, Additional Chief Secretary of Government of Karnataka, a review meeting was held on 12/09/2023 with the stakeholder departments to discuss the progress made in compliance with the issues raised by CMC, Jal Shakti during the 17th CMC meeting. The meeting was attended by higher officers from KSPCB, DMA, KUIDFC, KUWS&DB and BWSSB. The Chairperson reviewed the data and progress

relevant to OA. 673/2018 furnished by the stakeholder departments. He further directed the stakeholder to provide necessary data on monthly basis.

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

Water quality data is attached as **Annexure 9**

XV. Ground water regulation:

In order to control over exploitation of groundwater, the State Government has enacted the Karnataka Groundwater (Regulation and control of Development and Management) Act 2011, Rules 2012. As per the section 10 of the Act 2011 the areas will be notified. There is a restriction to drill a new bore well in the notified taluks. As per section 11 of the Act 2011, prior permission from the competent authority should be taken to drill a new bore well in the notified area. Registration of drilling rigs is made compulsory to drill bore well in any part of the State. The registration certificates issued in form-7A by the Karnataka Groundwater Authority. Any commercial user of groundwater for industry / infrastructure / mining / entertainment purposes must obtain permission / NOC from Karnataka Groundwater Authority (KGWA).

XVI. Good irrigation practices being adopted by the State:

Department of Agriculture and Horticulture have submitted an action plan for the implementation of the following measures: (a) farmers are made aware to use irrigation water optimally. (b) Adopting micro irrigation system (sprinkler and drip) in agricultural crops. (c) Crop rotation is encouraged.

XVII. Rain Water Harvesting:

XVIII. Demarcation of Floodplain and removal of illegal encroachments:

XIX. Maintaining minimum e-flow of river:

Details on minimum e-flow of river is attached as **Annexure 10**

XX. Plantation activities along the rivers:

Karnataka Forest Department is implementing the Karnataka River Conservation Program pertaining to Forest Department, since 2018-19 in 9 forest divisions. Under this program, seedlings are planted on the river banks of Ghataprabha to an extent of 660 ha and Cauvery to an extent of 620 ha in 2018-19. Year wise plantation raised throughout Karnataka is as in the table below.

Financial year	Extent of plantation raised
2018-2019	44494 Ha
2019-2020	41620 Ha
2020-2021	74399 Ha
2021-2022	36398 Ha
2022-2023	47773 Ha
2023-2024	6584 Ha

XXI. Development of biodiversity park:

One biodiversity park proposed in Hassan ULB

XXII. Reuse of Treated Water:

883.65 MLD of treated water is reused as follows:

Sewage treatment and treated sewage reuse in Karnataka					
Sl.no	Location of STP	STP Capacity (MLD)	Capacity Utilized (MLD)	Treated sewage reused (MLD)	Used for
1	Rajacanal	40	32.68	30.25	Used for irrigation in the area of Chikkaballapura and Devanahalli KIADB Industrial area through 65 no. of tanks.
2	Rajacanal	40	40.51	40.18	
3	Horamavu	20	16.57	14.96	
4	Hebbal	100	86.54	84.5	
5	K & C Valley	218	153.66	146.55	The entire treated water is being pumped to lakes of kolar district by minor irrigation department, GOK.
6	K & C Valley	30	31.41	30.27	
7	Bellandur Amanikere	90	88.2	77.76	
8	Jakkur	15	17.18	17.08	To KPTCL for power generation as per KPCL requirement remaining to recharge Jakkuru lake.
9	Sarakki	5	4.77	4.67	Proposal to recharge existing Sarakki Lake
10	Lalbagh	1.5	1.23	1.17	Horticulture Department
11	Cubbon Park	4	2.5	2.07	Horticulture Department, Rajbhavan, Hon'ble High Court, Bangalore Golf Course, Planatarium, War Memorial, CID, Vidhana Soudha, KPSC, KPWD, Civil Court
12	Yelhanka	10	9.97	1.76	M/s. Kempegowda International Airport Limited, M/s. Indian Tobacco Company, M/s. Indian Air Force, M/s. Bharath electronics limited, M/s. Rail

					Wheel Factory, Prestige, Emabassy and Excess effluent to Allasandra Lake
13	Yelemelle chetty	15	13.63	13.29	Yelemallappa Chetti kere
14	Chikkabanavar	5	4.88	4.59	To recharge chikkabanavara lake.
15	Mailsandra	100	80.03	0.318	M/s Global Village for Gardening
16	Kadugodi	6	5.22	5.2	Presently letting into SWD. Proposal to HPCL 2 MLD increasing to 6 MLD with completion of pipeline work for which work is under process
17	Halasuru	2	1.93	1.89	Halasuru Lake
18	Nagasandra	20	16.5	14.96	To SWD
19	Nagasandra	20	14.57	14.96	
20	Kadabeesanahalli	50	31.5	29.52	Presently letting into SWD - Proposed for future utilisation in KIADB Industrial Area at Narasapur with the completion of TTP at Narasapura
21	K R Puram	20	14.7	12.89	Vengaiana Kere
22	Doddabele	40	41.95	0.544	For STP process and balance to downstream Nala
23	Kengeri	60	56.3	2.15	
24	Doddabele	35	26.5	0.26	
25	K & C Valley	60	59.98	57.98	The entire treated water is being pumped to lakes of anekal taluk by minor irrigation department, GOK.
26	Hulimavu	10	8	9.33	Hulimavu Kere
27	Agaram	35	34.51	33.92	Agaram Kere
28	K&C Valley	150	148.2	146.11	The entire treated water is being pumped to lakes of

					kolar district by minor irrigation department, GOK.
29	KR Puram (New)	20	19.81	19.26	Vengaiana Kere
30	Chikka Beguru	5	4.24	4.19	Chikkabegur kere
31	Hennur	1	0.5	0.48	To Bio Diversity Park and remaining to SWD
32	Madiwala	4	2.08	1.99	To recharge Madiwala lake
33	V.Valley	150	142.46		To SWD
34	Hassan	10	10	2	Agricultural
35	Belur	5	2.4	0.4	Agricultural
36	Belur	0.3	0.3	0.3	Agricultural
37	Bannuru	3.8	1.7	1.5	Agricultural
38	Bannuru	0.15	0.06	0.05	Agricultural
39	Arasikere	12	6	6	Agricultural
40	Channarayapatna	4.6	4.6	1	Agricultural
41	Holenarasipura	3	3	0.5	Agricultural
42	Birur	2.64	0.3	0.15	Agricultural
43	Muddebihal	5.24	4	4.00	Treated sewage is discharged into nala for Agriculture purpose
44	Tumkur	6	27	2.3	Agriculture
45	Mangaluru(Kavoor)	43.5	27	27	To Mangaluru SEZ for industrial purpose
46	Ballari	30	23	3	To M/s Janaki Sponge Iron Ltd.
47	Kollegala	9	6	4	Agriculture
48	Chickmagalur	20	12	6	Agricultural

49	Basavana Bagewadi	0.25	0.2	0.2	Agriculture
50	Basavana Bagewadi	0.25	0.2	0.2	Agriculture
	Total	1537.23	1340.47	883.652	

XXIII. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:

Tungabhadra has been adopted as the model river by Karnataka. There are 3 ULBs that covers this stretch and the major source of pollution along the stretch is the entry of sewage from CMC-Harihara, CC-Davangere and TP-Honnali. There are two industries namely M/s HPF and Grasilene which discharges the treated effluent into the river. The total quantity of industrial discharge of 32.5 MLD is treated to the required standards before discharging into the river. The total sewage generated from these 3 ULBs coming under this stretch of river is 67.74 MLD. The KSPCB is pursuing with the ULBs for the treatment of the sewage and accordingly the KUIDFC and KUWS&DB have provided STPs of capacity 66.3 MLD and have been asked to augment the inflow of sewage into the STPs by increasing the UGD network area and the work is under progress.

As proposed earlier, the following Real Time Water Quality Monitoring Stations are installed at the following locations:

Sl No	Location	Co-ordinates
1	Bridge across river Tungabhadra on Harihara-Sivamogga road, near Harihara town, upstream of HPF	Lat: 14° 31' 01''; Long: 75° 47' 59''
2	Jackwell point well on river Tungabhadra, downstream of HPF	Lat: 14° 32' 55''; Long: 75° 48' 10''
3	Tunga river, downstream of Sivamogga (Taralabalu School campus)	Lat: 13° 56' 25''; Long: 75° 35' 58''
4	Bhadra river near Water Treatment Plant (WTP) of Holehonnur village	Lat: 13° 59' 11''; Long: 75° 41' 02''

XXIV. Status of Preparation of Action Plan by the 13 Coastal States:

The Coastal Pollution Prevention Action Plan for Karnataka has been submitted to the Central Pollution Control Board for approval.

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

The Karnataka new sand policy 2020 has been issued as per government order CI 344 MMN 2019 Bengaluru dated;05/05/2020 and published in the Gazette dated 21/05/2020 it has come into force on the same day. A proposal was submitted to Govt. to create special enforcement squad called "Mineral Protection Force". It adds strength to the Competent Authority in curbing and controlling illegal mining storage and transportation.

XXVI. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring.

KSPCB has closed 48 defaulting units and criminal case has been filled against one non-functional industry, and Personal Hearing was held with the KSRTC bus depots.

Incremental progress made by the State/UT in each activity:

November 2021:

- STP of 5 MLD capacity is recently commissioned at Byadigi and is operational at 1.5 MLD capacity, thereby increasing the existing STP capacity to 2679.5 MLD
- Increase in capacity utilization from 1649.6 MLD to 1769.12 MLD
- Tenders for the STPs at Jewargi, Belthangadi and Bannur have been finalized and the work orders have been issued.
- 3 STPs that were non-operational at Srinivasapura have been rectified and are currently operational.

December 2021:

- STP of 150 MLD capacity at V Valley, Bengaluru Urban was commissioned and is operational at 70 MLD capacity. STP lies in the PRS Arkavathi catchment, thus contributing for substantial reduction of sewage load to the PRS.
- 5.5 MLD capacity STP at Raichur is commissioned and is currently operational on trial run basis at 0.8 MLD capacity.
- 13.88 MLD capacity STP at Raichur is commissioned and is currently operational on trial run basis at 6.65 MLD capacity.
- 3.3 MLD capacity STP at Ramdurga has been commissioned but is currently non-operational due to incomplete UGD.
- Tenders for the STPs at Hunasur, Hassan, Belur, Honnavara and Haliyal have been finalized and the work orders have been issued.

Till March 2022:

- STP of 7.5 MLD capacity at Ranebannur which was non-operational has been rectified and is currently operational.
- STP of 7.92 MLD capacity at Harapanahalli which was non-operational has been rectified and is currently operational.
- STP of 4.6 MLD capacity at Kudligi is commissioned and is currently operational at 1.2 MLD capacity.

- STP of 2.75 MLD capacity at Bhatkal is commissioned and is currently operational at 2.75 MLD capacity.
- STP of 3 MLD capacity at Karkala is commissioned and is currently operational at 1 MLD capacity.
- STP of 4.4 MLD capacity at Ullal is commissioned and is currently operational at 4.4 MLD capacity.
- CETP of 0.5 MLD capacity at Yadagir is commissioned and is currently operational at 0.5 MLD capacity.

April 2022:

- STP of 9.2 MLD capacity at Rabakavi-Banahatti which was non-operational has been rectified and is currently operational.
- STP of 0.25 MLD capacity at Dharwad which was non-operational has been rectified and is currently operational.
- STP of 3.75 MLD capacity at Sadalga which was non-operational has been rectified and is currently operational.
- STP of 5.5 MLD capacity at Laxmeshwara which was non-operational has been rectified and is currently operational.
- STP of 12 MLD capacity at Sindhanur is commissioned and is currently operational at 2 MLD capacity.

Till June 2022:

- STP of 4 MLD capacity at Madiwala is commissioned and is currently operational at 4 MLD capacity.

July 2022:

- Additional 10 STPs have been proposed, wrt four STPs work order has been issued and for the remaining 6 STP DPRs have been submitted to the government for approval.
- The Board conducted Personal Hearing with four non-complying industries so as to provide a final opportunity on the Principle of Natural Justice before initiating action against them under the provision of Water Act, 1974.

Till October 2022:

- STP of 0.25 MLD capacity at Basavana Bagewadi is commissioned and is currently operational at 0.2 MLD capacity.

Till December 2022:

- STP of 1 MLD capacity at Hubballi which was non-operational has been rectified and is currently operational.

Till March 2023:

- The proposed STP have been increased by 6 numbers with the total capacity of 247.94 MLD
- Pursued with different stakeholders such as BWSSB, DMA, KUWSSB and KUIDFC along with the Urban Development Department for to improve the progress on 18.11.2022
- The Under construction STPs have been increased by 5 numbers with the total capacity of 436.87 MLD

Till April 2023:

- STP of 5.24 MLD capacity at Muddebihal is commissioned and is currently operational at 4 MLD capacity.
- The under construction STPs have been increased by 16 no. with the total capacity of 469.47 MLD.

Till June 2023:

- The proposed STP have been increased by 27 numbers with the total capacity of 354.8 MLD
- STP of 0.25 MLD capacity at Channarayapatna is commissioned and is currently operational at 0.25 MLD capacity.
- STP of 0.01 MLD capacity at Belthangady is commissioned and is currently operational at 0.01 MLD capacity.
- STP of 1 MLD capacity at Ramdurga , STP of 0.5MLD and 8 MLD capacity at Dandeli construction of these STPs are completed
- Conducted a meeting to review the status of Polluted River Stretches in the matter of OA 673/2018 with stakeholders such as BWSSB, DMA, KUWSSB, KUIDFC and Regional Officers of KSPCB on 15.07.2023

Till July 2023:

- Review of action plan for Arkavathi Polluted River Stretches was conducted under the Chairmanship of Member Secretary, KSPCB with different stakeholders on 04.08.2023
- A meeting was also conducted with concerned Regional Officers by the Board under the Chairmanship of Member Secretary, KSPCB for the preparation of action plan for Dakshina Pinakini River.

Till August 2023:

- A review meeting to review the progress achieved in the treatment of sewage and other solid wastes was conducted under Chairmanship of Member Secretary, KSPCB with different stakeholders on 04.09.2023
- A Preliminary meeting was also conducted under the Chairmanship of Additional Chief Secretary, Urban Development Department to review the progress achieved in the matter the of OA 673/2018 on 05.09.2023.

Till September 2023:

- STP of 7 MLD capacity at Bidar is commissioned and is currently operational at 3 MLD capacity.

Till October 2023:

- A district task force committee meeting was conducted at Chamarajanagra on 26.10.2023
- The capacity utilization of Doddabele STP is increased from 26.55MLD to 28.66MLD
- The capacity utilization of Kengeri STP is increased from 56.30MLD to 58.30MLD
- The capacity utilization of Mailsandra STP is increased from 20MLD to 80.03MLD
- The capacity utilization of Malgur road STP is increased from 2MLD to 5.6MLD
- The capacity utilization of Suratkal STP is increased from 1.5MLD to 4MLD

Till December 2023:

- STP of capacity 7 MLD at Puttenahalli is commissioned on December,2023 is currently operational at 5 MLD capacity.
- Non-operational STP of 8 MLD at Dandeli is currently operational at 1.5 MLD. Therefore the number of non-operational STPs reduced from 15 to 14 numbers.
- The STP of capacity 6.2 MLD at Bidadi moved from proposed STPs to under constructional STPs.
- The rejuvenation of Tungabhadra, Bhadra and Tunga rivers have been initiated by approving the installation of four Real Time Water Quality Monitoring Stations (RTWQMS) and the installation of RTWQMS at these rivers will be completed by January 2024.
- A review meeting to review the progress achieved in the treatment of sewage and other solid wastes was conducted under Chairmanship of Principle Secretary, Department of Ecology and Environment with different stakeholders on 06.01.2024
- The capacity utilization of Ramnagara STP is increased from 6.24 MLD to 6.50 MLD
- 1 CETP of 1.2 MLD at Bidar is commissioned and its under trials.

Till January 2024:

- STP of 3.8 MLD and 0.15 MLD capacity at Bannur is commissioned and is currently operational at 1.7 MLD and 0.06MLD capacity respectively.
- STP of 2 MLD capacity at Bellary is commissioned and is currently operational at 1.5 MLD capacity
- The STP of capacity 3 MLD at Subramanya moved from proposed STPs to under constructional STPs.
- 13 non-operational STPs, out of which most of the STPs are non-operational because of no HSC connection, hence, there is no flow of sewage to STP – KUIDFC proposed to take up construction/upgradation of underground sewerage system in 54 prioritized

Cities/towns as per the Government of Karnataka order to reduce the gap between sewage generation and its processing at the cost of Rs.1518.00 crores and the consultant will be hired within 2 months.

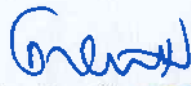
- FSSM of capacity 0.007MLD and 0.007 KLD in Karkala and Sakleshpura are currently operational, 28 numbers of FSSM are under construction, 7 numbers of FSSM are in tender process and 7 numbers of FSSM are in DPR preparation.
- **Non-operational STP of 5 MLD at Shivamogga is currently operational at 3.5 MLD.** Therefore the number of non-operational STPs reduced from 14 to 13 numbers
- **The reuse of treated water increased from 865.45 MLD to 883.65 MLD.**

Till February 2024:

- The number of ETPs provided in KSRTC depots increased from 29 to 35 numbers.

Till March 2024:

- Non-operational STP of 3.23 MLD at TMC, Jewerga is upgraded to SBR technology of capacity 5.23 MLD and is currently operational at 0.5 MLD. Therefore the number of non-operational STPs reduced from 13 to 12 numbers.
- Out of 55 KSRTC depots, 35 numbers of depots have now provided with ETPs, 11 ETPs are constructed, yet to be commissioned and 09 ETPs are under construction.
- STP of 4.2 MLD capacity at Periyapatna, Mysore is commissioned and is currently operational at 0.4 MLD capacity
- STP of 0.04 MLD capacity at Bhadravathi, Shivamogga is commissioned and is currently operational at 0.01 MLD capacity
- The STP of capacity 1.5 MLD at Nyamathi moved from proposed STPs to under constructional STPs.
- The STP of capacity 3.87 MLD at Hukkeri moved from proposed STPs to under constructional STPs.


Member Secretary
KSPCB

The first part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics, and that the laws of quantum mechanics are determined by the laws of the theory of the structure of the atom. This is a circular argument, but it is the only way to proceed.

The second part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics, and that the laws of quantum mechanics are determined by the laws of the theory of the structure of the atom. This is a circular argument, but it is the only way to proceed.

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Annexure-1											
List of existing STPs in Karnataka											
Sl. no.	District	ULB	Is ULB under 12 Polluted River Stretch?	Implementing agency	Presently Maintained by	Address of the STP	Status	STP Installed Capacity (MLD)	Technology	STP capacity utilization (MLD)	Status of Complying
1	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	V Valley	Operational	150	ASP	142.5	Complying
2	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Agaram	Operational	35	SBR	34.51	Complying
3	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Bellandur Amanikere	Operational	90	ASP	88.20	Complying
4	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Chikkabanavara	Operational	5	SBR	4.88	Complying
5	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Chikkabegur	Operational	5	SBR	4.24	Complying
6	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Cubbon Park	Operational	4	MBBR	2.50	Complying
7	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Doddabele	Operational	40	SBR	39.95	Complying
8	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Doddabele	Operational	35	SBR	28.66	Complying
9	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Halasuru	Operational	2	SBR	1.93	Complying
10	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Hebbal	Operational	100	SBR	86.54	Complying
11	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Horamavu	Operational	20	SBR	16.57	Complying
12	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Hulimavu	Operational	10	SBR	8.00	Complying
13	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Jakkur	Operational	15	UASB+EA	14.98	Complying
14	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	K & C Valley	Operational	218	ASP	153.66	Complying
15	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	K & C Valley	Operational	30	ASP	31.41	Complying
16	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	K & C Valley	Operational	60	ASP	59.98	Complying
17	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	K & C Valley	Operational	150	ASP	148.20	Complying
18	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	K R Puram	Operational	20	UASB+EA	14.70	Complying
19	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	K.R.Puram	Operational	20	SBR	19.81	Complying
20	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Kadabeesanahalli	Operational	50	EA	31.50	Complying
21	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Kadugodi	Operational	6	SBR	5.22	Complying
22	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Kengeri	Operational	60	ASP	58.30	Complying
23	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Lalbagh	Operational	1.5	Activated aeration + plate settlers + UV disinfection	1.23	Complying
24	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Mailsandra	Operational	100	EA	80.03	Complying

25	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Nagasandra	Operational	20	SBR	16.50	Complying
26	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Nagasandra	Operational	20	Extended Aeration	14.57	Complying
27	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Rajacanal	Operational	40	SBR	32.68	Complying
28	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Rajacanal	Operational	40	Extended Aeration	40.51	Complying
29	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Sarakki	Operational	5	SBR	4.77	Complying
30	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Yelemelle chellappa chetty	Operational	15	SBR	13.63	Complying
31	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Yelhanka	Operational	10	ASP	9.97	Complying
32	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Hennur	Operational	1	SBT	0.54	Complying
33	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Madiwala	Operational	4	SBR	2.08	Complying
34	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Puttenahalli	Operational	7	SBR	5.080	Complying
35	Dharwad	Hubballi-Dharwad	No	KUIDFC	Concerned ULB	Madihal in Dharwad	Operational	20	SBR	16.100	Complying
36	Dharwad	Hubballi-Dharwad	No	KUIDFC	Concerned ULB	Gabbur in Hubballi	Operational	40	SBR	20.000	Complying
37	Bijapur	Bijapur	No	KUIDFC	Concerned ULB	Indi Road, Vijayapur	Operational	31	FAL	25.2	Complying
38	Bagalkote	Jamkhandi	No	KUIDFC	Concerned ULB	Near Malgur road	Operational	7.6	FAL	5.6	Complying
39	Raichur	Raichur	No	KUIDFC	Concerned ULB	Ekklapur	Operational	20	FAL	12.2	Complying
40	Raichur	Raichur	No	KUIDFC	Concerned ULB	Hosur	Operational	8	FAL	5	Complying
41	Chamarajnagar	Chamarajanagar	No	KUIDFC	Concerned ULB	Near Boodithittu village	Operational	9	FAL	5	Complying
42	Tumkur	Tiptur	No	KUIDFC	Concerned ULB	Huchagondanahalli Sy No 53	Operational	6	SBR	3	Complying
43	Bengaluru rural	Doddaballapur	No	KUIDFC	Concerned ULB	Majarahosahalli Sy No.35	Operational	12	WSP	7	Non-complying- DPR preparation is under progress to upgrade the STP to meet PCB standards. At present, aerators are rectified and installed to increase DO levels
44	Chikkaballapur	Chikkaballapur	No	KUIDFC	Concerned ULB	Gopala Krishna Ammnikere Sy No.260	Operational	10	WSP	7	Complying
45	Uttarakannada	Bhatkal	No	KUIDFC	Concerned ULB	Venktapura bhatkal	Operational	1.5	WSP	1.5	Complying

46	Dakshina Kannada	Mangaluru(Pachanady)	No	KUIDFC	Concerned ULB	Pachanady	Operational	8.75	ASP	6.8	Complying
47	Dakshina Kannada	Mangaluru(Kavoor)	No	KUIDFC	Concerned ULB	Kavoor	Operational	43.5	UASB	27.5	Complying
48	Dakshina Kannada	Mangaluru(Surathkal)	No	KUIDFC	Concerned ULB	Surathkal	Operational	16.5	ASP	4	Complying
49	Dakshina Kannada	Mangaluru(Bajal)	No	KUIDFC	Concerned ULB	Bajal	Operational	20	ASP	8	Complying
50	Kalburgi	Kalaburgi	No	KUIDFC	Concerned ULB	Near Nandikur Village	Operational	40	SBR	40	Complying
51	Uttarakannada	Karwar	No	KUIDFC	Concerned ULB	Gandhi nagar Near KEB Karwar	Operational	1.5	Aerator Lagoon	1.5	Complying
52	Udupi	Udupi	No	KUIDFC	Concerned ULB	Nittur	Operational	12.5	FAL	12	Complying
53	Bidar	Bidar	No	KUIDFC	Concerned ULB	Gornalli B Village Bidar - 01 No. (KUIDFC)	Operational	17.26	Aerated Lagoon Type	6.5	Non-complying-Electrical repair works are underway for some of the aerators to make it compliant by increasing DO levels.
54	Belagavi	Gokak	No	KUIDFC	Concerned ULB	Maldinni Village	Operational	8.7	FAL	1.5	Complying
55	Davangere	Davangere	Yes	KUIDFC	Concerned ULB	Shivanagar, Davanagere	Operational	20	SBR	20	Complying
56	Davangere	Davangere	Yes	KUIDFC	Concerned ULB	Avaragere	Operational	5	SBR	3.5	Complying
57	Davangere	Davangere	Yes	KUIDFC	Concerned ULB	Shivanagar	Operational	20	SBR	15	Complying
58	Davangere	Harihara	Yes	KUIDFC	Concerned ULB	Harlapura	Operational	18	FAL	7	Complying
59	Haveri	Ranebannur	Yes	KUIDFC	Concerned ULB	Hunatti	Operational	7.5	FAL	7.5	Complying
60	Haveri	Ranebannur	Yes	KUIDFC	Concerned ULB	Hunatti	Operational	7.5	FAL	2.5	Complying
61	Bagalkote	Rabkavi Banahatti	No	KUIDFC	Concerned ULB	Near Gattagi, Basaveshwara road	Operational	9.2	SBR	3	Complying
62	Bidar	Humnabad	No	KUIDFC	Concerned ULB	Dummanasoor village, Chinnakera Road, Near	Non-operational	6	WSP	0	na
63	Haveri	Haveri	No	KUIDFC	Concerned ULB	Siddevapure	Non-operational	4.71	FAL	0	na
64	Bagalkote	Ilkal	No	KUIDFC	Concerned ULB	Tondyal village	Operational	8	FAL	2	Complying
65	Vijayanagara	Hospete	No	KUIDFC	Concerned ULB	Belagadu Village	Operational	27	ASP	5	Complying
66	Haveri	Byadigi	No	KUIDFC	Concerned ULB	Theradahalli	Operational	5	SBR	3	Complying
67	Raichur	Sindhanur	No	KUIDFC	Concerned ULB	Sukalpet	Operational	12	FAL	3	Complying

68	Hassan	Hassan	No	KUWS&DB	Concerned ULB	Bittagowdanahalli	Operational	10	WSP	10	Complying
69	Hassan	Belur	No	KUWS&DB	Concerned ULB	Hole Beedhi	Operational	5	WSP	5	Complying
70	Hassan	Belur	No	KUWS&DB	Concerned ULB	Behind Ayyappa Swamy Temple	Operational	0.3	WSP	0.3	Complying
71	Mandya	Srirapatna	yes	KUWS&DB	Concerned ULB	Chandagalu road Ganjam, Srirapatna	Operational	1.39	WSP	1.39	Complying
72	Mandya	Srirapatna	yes	KUWS&DB	Concerned ULB	Chandagalu road Ganjam, Srirapatna	Operational	2.21	WSP	1.7	Complying
73	Mandya	Maddur	yes	KUWS&DB	Concerned ULB	Hole Anjananeya Temple	Operational	3.5	WSP	3.5	Complying
74	Mysore	Nanjangudu	yes	KUWS&DB	Concerned ULB	Goluru	Operational	7	WSP	7	Complying
75	Mysore	Bannuru	yes	KUWS&DB	Concerned ULB	Chamanahalli	Operational	2.25	WSP	1.5	Complying
76	Chamarajnagar	Kollegala	yes	KUWS&DB	KUWS&DB	Kollegala- Mulluru Road	Operational	9	Areated lagoon	6	Complying
77	Chamarajnagar	Gundlupete	No	KUWS&DB	Concerned ULB	Zone 'B' VIJAYAPURA	Operational	1.5	WSP	0.8	Complying
78	Chamarajnagar	Gundlupete	No	KUWS&DB	Concerned ULB	Chennapura Road, Chikkamagaluru	Operational	2.5	WSP	1.2	Complying
79	Mysore	T Narsipura	yes	KUWS&DB	Concerned ULB	Near KSRTC Bus stand (Constructed)	Operational	5.5	SBR	3.670	Complying
80	Mysore	KR Nagar	No	KUWS&DB	Concerned ULB	Kantenahalli	Operational	1.44	WSP	1.44	Complying
81	Mysore	KR Nagar	No	KUWS&DB	Concerned ULB	Madhuvinahalli	Operational	1.45	WSP	1.45	Complying
82	Mysore	KR Nagar	No	KUWS&DB	Concerned ULB	Madhuvinahalli	Operational	2.50	WSP	0.9	Complying
83	Mysore	Hunsuru	yes	KUWS&DB	Concerned ULB	Kalkunike	Operational	3.9	WSP	3.9	Complying
84	Mangaluru	Subramanya	No	KUWS&DB	Concerned ULB	Back side of Subramanyeshwara college	Operational	2.6	Aerated Lagoon	2.4	Complying
85	Ramanagara	Kanakapura	Yes	KUWS&DB	Concerned ULB	Aralalu Village	Operational	6.29	WSP	3.5	Complying

86	Ramanagara	Ramanagara	Yes	KUWS&DB	Concerned ULB	Kumbapura	Operational	7.56	Aerated Lagoon	6.5	Complying
87	Shivamogga	Shivamogga	Yes	KUWS&DB	Concerned ULB	Purle	Operational	5.13	SBR	0.52	complying
88	Shivamogga	Shivamogga	Yes	KUWS&DB	Concerned ULB	Near Thyavarechnalli	Operational	35.58	Aerated Lagoon	24	Complying
89	Shivamogga	Bhadravathi	Yes	KUWS&DB	Concerned ULB	Near APMC yard	Operational	7.2	WSP	2	Complying
90	Shivamogga	Bhadravathi	Yes	KUWS&DB	Concerned ULB	Jatpat Nagara	Operational	5.83	WSP	4.8	Complying
91	Shivamogga	Bhadravathi	Yes	KUWS&DB	Concerned ULB	At Ujjinipura	Operational	1	SBR	0.05	Complying
92	Davangere	Honnali	Yes	KUWS&DB	Concerned ULB	Malladevarakatte	Operational	3.3	WSP	1	Complying
93	Dharwad	Dharwad	No	KUWS&DB	KUWS&DB	Sy. No. 151, Narendra village, University of agricultural sciences premises, Dharwad	Operational	10	SBR	3.83	Complying

94	Dharwad	Dharwad	No	KUWS&DB	KUWS&DB	At Kelageri lake premises, near Radhakrishna nagar, Dharwad	Operational	3	SBR	2.68	Complying
95	Dharwad	Dharwad	No	KUWS&DB	Concerned ULB	Jogyallapur	Operational	0.25	MBBR	0.06	Complying
96	Dharwad	Hubballi	No	KUWS&DB	KUWS&DB	At RS No. 315, Unakal lake premises, Hubballi	Operational	3	Phytorid	2.452	Complying
97	Dharwad	Hubballi	No	KUWS&DB	KUWS&DB	Tolanakeri, Akshaya colony, Hubballi	Operational	1	Phytorid	0.811	Complying
98	Dharwad	Hubballi	No	KUWS&DB	KUWS&DB	At Ramanagar, near Ashraya colony, beside Tarihal Industrial area, Hubballi	Operational	0.25	MBBR	0.132	Complying
99	Bagalkote	Badami	No	KUWS&DB	Concerned ULB	Behind Veerpulikesh Education Institution, Yaragoppa Road , Badami	Operational	4.3	WSP	4.4	Complying
100	Bagalkote	Mudhol	No	KUWS&DB	Concerned ULB	Near Yadahalli-Ingaldi road Mudhol	Operational	9.06	ULB	4.9	Complying
101	Bagalkote	Bilagi	No	KUWS&DB	Concerned ULB	Towards Korthi Road Distance 2 KM Away from city limit	Operational	3	ULB	3	Complying

102	Vijaypur	Basavana Bagewadi	No	KUWS&DB	Concerned ULB	Ivanagi Road Basavana Bagewadi	Operational	4.02	ULB	3.8	Complying
103	Vijaypur	Indi	No	KUWS&DB	Concerned ULB	Ahirasang Road Indi	Operational	4.2	ULB	4.2	Complying
104	Vijaypur	Talikote	No	KUWS&DB	Concerned ULB	RTC NO Survey No-45/2, 3,4,5,RTC-66/2/1,58 Harnal Road, Talikote	Operational	4.24	ULB	3.2	Complying
105	Belagavi	Bailhongal	No	KUWS&DB	Concerned ULB	Anigol Road, Bailhongal	Operational	8.28	Aerated Lagoon	4.5	Complying
106	Belagavi	ullala	Yes	KUWS&DB	Concerned ULB	HIREKODI	Operational	5.8	WSP	2.7	complying
107	Belagavi	Sadalga	Yes	KUWS&DB	KUWS&DB	Dattawad Road Honde	Non-Operational	3.72	Aerated Lagoon	0	na
108	Gadag	Gadag-Betageri CMC	No	KUWS&DB	KUWS&DB	Nagasamudra	Operational	13.88	WSP	9.45	Complying
109	Gadag	Laxmashwar	No	KUWS&DB	Concerned ULB	Akkigunda, Desaihan	Operational	5.5	Aerated Lagoon	0.8	Complying
110	Vijayanagara	Kudligi	No	KUWS&DB	KUWS&DB	Near NH 50, Beside Town Panchayat SWM Site, SY No. 60/a and others.	Operational	4.6	SBR	1.6	Complying
111	Vijayanagara	TMC, Huvina Hadagali	Yes	KUWS&DB	Concerned ULB	2nd Ward Navali Road Near Old Filter House Hadagali	Operational	4.27	Waste Stabilization Pond type	3.5	Complying
112	Vijayanagara	Harapanahalli	No	KUWS&DB	Concerned ULB	Narayanapura, Harapanahalli Taluka.	Operational	7.92	Waste Stabilization Pond type	4.5	Complying
113	Kalburgi	CC, Kalaburagi	No	KUWS&DB	Concerned ULB	Near Nandikur Village	Operational	20.00	SBR type	12.5	Complying
114	Kalburgi	CC, Kalaburagi	No	KUWS&DB	Concerned ULB	Near Kapnoor Village Sy. No. 69/2 & 69/3	Operational	25.00	SBR type	10	Complying
115	Kalburgi	TMC, Chittapur	No	KUWS&DB	Concerned ULB	Chittapura Town Sy. No. 82/2	Operational	5.10	WSP type	3.6	Complying
116	Yadgir	TMC, Gurmitkal	No	KUWS&DB	Concerned ULB	Nanapur area in Gurmitkal	Operational	3.00	WSP type	1	Complying
117	Bidar	CMC. Bidar	No	KUWS&DB	Concerned ULB	Gornalli B Village Bidar-01 No.	Operational	17.26	SBR type	7.5	Complying

118	Bellary	CCB, Ballari	No	KUWS&DB	Concerned ULB	30MLD Annathapur Road	Operational	30.00	Aerated Lagoons	23.3	Complying
119	Bellary	CCB, Ballari	No	KUWS&DB	Concerned ULB	15 MLD at Cowl Bazaar	Operational	15.00	Aerated Lagoons	10	Complying
120	Bellary	CCB, Ballari	No	KUWS&DB	KUWS&DB	Enturi Nagar, Ballari	Operational	10.00	SBR Type	10	Complying
121	Koppala	CMC, Gangavathi	No	KUWS&DB	Concerned ULB	chikka janthkal Road at Gangavathi	Operational	14.00	FAB Type	12.6	Complying
122	Raichur	CMC, Raichur	No	KUWS&DB	Concerned ULB	Yeramarus Village near Raichur	Operational	5.50	SBR	2	Complying
123	Hassan	Arasikere	No	KUWS&DB	KUWS&DB	Garudangiri Road	Operational	12.00	SBR	6	Complying
124	Hassan	Channarayapatna	No	KUWS&DB	Concerned ULB	Gadderameshwara badavane	Operational	4.60	WSP	4.6	Complying
125	Hassan	Holenarasipura	No	KUWS&DB	Concerned ULB	Tattekere Grama	Operational	3.00	WSP	3	Complying
126	Chikkamagalur	Chickmagalur	No	KUWS&DB	KUWS&DB	Chennapura Road, Chikkamagaluru	Operational	20.00	MBBR	16	Complying
127	Chikkamagalur	Birur	No	KUWS&DB	Concerned ULB	Hindu Rudrabhoomi, Yagati Road, Birur	Operational	2.64	WSP	2.64	Complying
128	Mandya	Mandya	No	KUWS&DB	Concerned ULB	Yathagadahalli Road	Operational	9.62	OP	9.52	Complying
129	Mandya	Mandya	No	KUWS&DB	Concerned ULB	Chikkegowdana Doddi	Operational	8.9	WSP	8.9	Complying
130	Mandya	Malavalli	No	KUWS&DB	Concerned ULB	Goudgere	Operational	5.65	WSP	4.5	Complying
131	Mandya	Krishnarajpet	No	KUWS&DB	Concerned ULB	Sy. No 32, Hosaholalu	Operational	5	WSP	2	Complying
132	Mandya	Nagamangala	No	KUWS&DB	Concerned ULB	Gaddebhuvanahalli	Operational	3	WSP	1.8	Complying
133	Udupi	Karkala	No	KUWS&DB	Concerned ULB	Near Existing Oxidation Pond, Kabbettu, Karkala	Operational	3	Oxidation Pond	1.5	Complying

134	Dakshina Kannada	Ullala	No	KUWS&DB	KUWS&DB	Kodikotepura, Ullala	Non-Operational	4.4	SBT	0	na
135	Mysore	Mysore	No	KUWS&DB	Concerned ULB	Rayanakere	Operational	60	Surface aeriator	51	Complying
136	Mysore	Mysore	No	KUWS&DB	Concerned ULB	Vidyaranyaapuram	Operational	67.5	Surface aeriator	54	Complying
137	Mysore	Mysore	No	KUWS&DB	Concerned ULB	Hebbal	Operational	8	SBR	7.8	Complying
138	Mysore	Mysore	No	KUWS&DB	Concerned ULB	Kesare	Operational	30	Surface aeriator	27	Complying
139	Tumkur	Tumakuru	No	KUWS&DB	Concerned ULB	Bheemasandra village, City corporation Tumakuru	Operational	24.57	Aerated lagoon	24.587	Complying
140	Tumkur	Tumkur	No	KUWS&DB	Concerned ULB	Kallukote grama	Operational	10.6	SBR	2.31	Complying
141	Chitradurga	Chitradurga	No	KUWS&DB	Concerned ULB	Beside Railway Track, Near NH4, Chitradurga	Operational	20	SBR	18	Complying
142	Davangere	Davanagere	yes	KUWS&DB	Concerned ULB	Kundavada	Operational	14.8	WSP	12	Complying
143	Bengaluru	Anekal	No	KUWS&DB	Concerned ULB	Aldenahalli	Operational	3.1	SBR	1	Complying
144	Bengaluru	Anekal	No	KUWS&DB	Concerned ULB	Doodakere	Operational	3.3	SBR	1	Complying
145	Ramanagara	Magadi	No	KUWS&DB	Concerned ULB	PURA GRAMA	Operational	3.7	WSP	1.78	Complying
146	Kolar	Kolar	No	KUWS&DB	Concerned ULB	Near Siddhartha school ,manighatta main Road ,gandhi nagara kolar	Operational	10.16	WSP	10.3	Complying
147	Kolar	Mulbagal	No	KUWS&DB	Concerned ULB	Chikkagopammanakere	Operational	6.3	SBT	2.2	Complying
148	Kolar	Srinivasapura	No	KUWS&DB	Concerned ULB	Hebbata kere	Operational	3	WSP	2.5	Complying
149	Kolar	Srinivasapura	No	KUWS&DB	KUWS&DB	1) Indiranagara near APMC yard	Operational	0.112	DEWATs	0.028	Complying

150	Kolar	Srinivasapura	No	KUWS&DB	KUWS&DB	2) Near Unikili Village	Operational	0.117	DEWATs	0.03	Complying
151	Kolar	Srinivasapura	No	KUWS&DB	KUWS&DB	3) Near Nallapalli	Operational	0.107	DEWATs	0.0214	Complying
152	Kolar	Srinivasapura	No	KUWS&DB	KUWS&DB	4) Near Byrapalli Village	Operational	0.057	DEWATs	0.0114	Complying
153	Kolar	Malur	No	KUWS&DB	Concerned ULB	Malur town,Kadadenahalli	Operational	4	SBR	1.7	Complying
154	Chikkaballapur	Chintamani	No	KUWS&DB	Concerned ULB	Near Gopasandra Tank	Operational	2	WSP	2	Complying
155	Chikkaballapur	Shidalghatta	No	KUWS&DB	Concerned ULB	Bellutti lake	Operational	3.1	WSP	0.001	Complying
156	Vijaypur	Basavana Bagewadi	No	KUWS&DB	KUWS&DB	Jainapur	Operational	0.25	MBBR	0.2	Complying
157	Uttarakannada	Bhatkal	No	KUWS&DB	Concerned ULB	Venkatapur village, Post Bhatkala, Bhatkala tuluk, Uttara Kannada district - 581320	Operational	2.75	Floating aerator type	2.75	Complying
158	Bagalkote	Hungund	No	KUWS&DB	Concerned ULB	Ramawadagi Village Road	Non-operational	3.50	WSP	0	na
159	Gadag	Naragund TMC	No	KUWS&DB	KUWS&DB	In Hirehal	Non-operational	4.18	WSP	0	na
160	Kalburgi	TMC, Jewargi	Yes	KUWS&DB	Concerned ULB	Sy No. 21, jewargi B village, Kalaburagi Road	Operational	5.83	SBR	0.5	na
161	Shivamogga	Shikaripura	No	KUWS&DB	KUWS&DB	Ambaragoppa Village Cross	Operational	5.00	SBR	3.5	na
162	Tumkur	Turuvekere	No	KUWS&DB	KUWS&DB	Bidiswaste Sy No 101/1, 101/2, 103/1, 103/2 and others	Non-operational	1.95	Waste stabilization pond	0	na
163	Belagavi	Ramdurga	No	KUWS&DB	KUWS&DB	Halagatti	Non-operational	3.30	WSP	0	na
164	Dakshina Kannada	Sullia	No	KUWS&DB	Concerned ULB	Oldgate,Hosagadde, Sullia	Non- Operational	2	Oxidation Pond	0	na
165	Bagalkote	Guledgudda	No	ULB	Concerned ULB	Padanakatti Village	Non-operational	4	oxidation pond	0.000	na

166	Bagalkote	Bagalkote	No	ULB	Concerned ULB	near APMC Bagalkote	Operational	12.5	oxidation pond	6.500	Complying
167	Vijaypur	Basavana Bagewadi	No	KUWS&DB	KUWS&DB	Savallhalla Tanda	Operational	0.25	MBBR	0.2	Complying
168	Vijaypur	Muddebihal	No	KUWS&DB	KUWS&DB	Near Mudnal MI pond	Operational	5.24	SBT	4	Complying
169	Hassan	Channarayapatna	No	KUWS&DB	By KUWS & D B	Udayagiri Badavane	Operational	0.25	SBR	0.25	Complying
170	Dakshina Kannada	Belthangady	No	KUWS&DB	By KUWS & D B	Solid waste dumping yard, Koyyur.	Operational	0.01	FSTP	0.01	Complying
171	Belagavi	Ramadurga	No	By KUWSDB	By KUWSDB	Pudukote	Non-operational	1	MBBR	0	
172	Uttara Kannada	Dandeli	No	By KUWSDB	By KUWSDB	Kerwadi (Halmaddi village),Dandeli	Operational	8	SBR	1.5	
173	Uttara Kannada	Dandeli	No	By KUWSDB	By KUWSDB	Nirmal nagar Janata colony-	Non-operational	0.5	Phytorid	0.000	
174	Bidar	CMC. Bidar	No	KUWS&DB	By KUWS & D B	Sy. No.107/1,107/2,108/2,108/3 of Naubad village of Bidar City	Operational	7	SBR type	3.00	Complying
175	Mysore	Bannuru	Yes	KUWS&DB	By KUWS & D B	Chamnahalli near Mandya Road	Operational	3.8	SBT	1.7	Complying
176	Mysore	Bannuru	Yes	KUWS&DB	By KUWS & D B	Near Kaveri Circle	Operational	0.15	SBT	0.06	Complying
177	Bellary	Ballari City Corporation	No	KUWS&DB	By KUWS & D B	Talur Road, Ballari	Operational	2.00	SBR	1.7	Complying
178	Mysore	Periyapatna	NO	KUWS&DB	By KUWS & D B	Keernalli village	Operational	4.2	SBR	0.4	Complying
179	Shivamogga	Bhadravathi	Yes	KUWS&DB	By KUWS&DB	Zinc line halla	Operational	0.04	NEBR	0.01	Complying

Annexure-2

List of existing STPs in 12 PRS

Sl. no.	District	ULB	Is ULB under 12 Polluted River Stretch?	Implementing agency		Address of the STP	Status	STP Installed Capacity (MLD)	Technology	STP capacity utilization (MLD)	Status of Complying
1	Bangaluru	Bangalore Urban	Yes	BWSSB	BWSSB	V Valley	Operational	150	ASP	142.5	Complying
2	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Chikkabanavara	Operational	5	SBR	4.88	Complying
3	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Doddabele	Operational	40	SBR	39.95	Complying
4	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Doddabele	Operational	35	SBR	28.66	Complying
5	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Kengeri	Operational	60	ASP	58.30	Complying
6	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Mailsandra	Operational	100	EA	80.03	Complying
7	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Nagasandra	Operational	20	SBR	16.50	Complying
8	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Nagasandra	Operational	20	Extended Aeration	14.57	Complying
9	Davangere	Davangere	Yes	KUIDFC	Concerned ULB	Shivanagar, Davanagere	Operational	20	SBR	20	Complying
10	Davangere	Davangere	Yes	KUIDFC	Concerned ULB	Avaragere	Operational	5	SBR	3.5	Complying
11	Davangere	Davangere	Yes	KUIDFC	Concerned ULB	Shivanagar	Operational	20	SBR	15	Complying
12	Davangere	Harihara	Yes	KUIDFC	Concerned ULB	Harlapura	Operational	18	FAL	7	Complying
13	Haveri	Ranebannur	Yes	KUIDFC	Concerned ULB	Hunatti	Operational	7.5	FAL	7.5	Complying
14	Haveri	Ranebannur	Yes	KUIDFC	Concerned ULB	Hunatti	Operational	7.5	FAL	2.5	Complying
15	Mandya	Sriragapatna	yes	KUWS&D B	Concerned ULB	Chandagalu road Ganjam, Srirangapatna	Operational	1.39	WSP	1.39	Complying
16	Mandya	Sriragapatna	yes	KUWS&D B	Concerned ULB	Chandagalu road Ganjam, Srirangapatna	Operational	2.21	WSP	1.7	Complying
17	Mandya	Maddur	yes	KUWS&D B	Concerned ULB	Hole Anjananeya Temple	Operational	3.5	WSP	3.5	Complying
18	Mysore	Nanjangudu	yes	KUWS&D B	Concerned ULB	Goluru	Operational	7	WSP	7	Complying

19	Mysore	Bannuru	yes	KUWS&D B	Concerned ULB	Chamanahalli	Operational	2.25	WSP	1.5	Complying
20	Chamarajnagar	Kollegala	yes	KUWS&D B	KUWS&DB	Kollegala- Mulluru Road	Operational	9	Aerated lagoon	6	Complying
21	Mysore	T Narsipura	yes	KUWS&D B	Concerned ULB	Near KSRTC Bus stand (Constructed)	Operational	5.5	SBR	3.670	Complying
22	Mysore	Hunsuru	yes	KUWS&D B	Concerned ULB	Kalkunike	Operational	3.9	WSP	3.9	Complying
23	Ramanagara	Kanakapura	Yes	KUWS&D B	Concerned ULB	Aralalu Village	Operational	6.29	WSP	3.5	Complying
24	Ramanagara	Ramanagara	Yes	KUWS&D B	Concerned ULB	Kumbapura	Operational	7.56	Aerated Lagoon	6.5	Complying
25	Shivamogga	Shivamogga	Yes	KUWS&D B	Concerned ULB	Purle	Operational	5.13	SBR	0.52	complying
26	Shivamogga	Shivamogga	Yes	KUWS&D B	Concerned ULB	Near Thyavarechatnalli	Operational	35.58	Aerated Lagoon	24	Complying
27	Shivamogga	Bhadravathi	Yes	KUWS&D B	Concerned ULB	Near APMC yard	Operational	7.2	WSP	2	Complying
28	Shivamogga	Bhadravathi	Yes	KUWS&D B	Concerned ULB	Jatpat Nagara	Operational	5.83	WSP	4.8	Complying
29	Shivamogga	Bhadravathi	Yes	KUWS&D B	Concerned ULB	At Ujjinipura	Operational	1	SBR	0.05	Complying
30	Davangere	Honnali	Yes	KUWS&D B	Concerned ULB	Malladevarakatte	Operational	3.3	WSP	1	Complying
31	Belagavi	Chikodi	Yes	KUWS&D B	Concerned ULB	HIREKODI	Operational	5.8	WSP	2.7	complying
32	Belagavi	Sadalga	Yes	KUWS&D B	KUWS&DB	Dattawad Road Honde	Non- Operational	3.72	Aerated Lagoon	0	na
33	Vijayanagara	TMC, Huvina Hadagali	Yes	KUWS&D B	Concerned ULB	2nd Ward Navali Road Near Old Filter House Hadagali	Operational	4.27	Waste Stabilization Pond type	3.5	Complying
34	Davangere	Davanagere	yes	KUWS&D B	Concerned ULB	Kundavada	Operational	14.8	WSP	12	Complying
35	Kalburgi	TMC, Jewargi	Yes	KUWS&D B	Concerned ULB	Sy No. 21, jewargi B village, Kalaburagi Road	Operational	5.83	WSP	0.5	na
36	Mysore	Bannuru	Yes	KUWS&D B	By KUWS & D B	Chamnahalli near Mandya Road	Operational	3.8	SBT	1.7	Complying
37	Mysore	Bannuru	Yes	KUWS&D B	By KUWS & D B	Near Kaveri Circle	Operational	0.15	SBT	0.06	Complying

38	Shivamogga	Bhadravathi	Yes	KUWS&D B	By KUWS & D B	Zinc Line Halla	Operational	0.04	NEBR		Complying
										0.01	
								653.05		532.4	

Annexure-3

List of Non-Operational STPs in Karnataka

Sl. no.	District	ULB	Is ULB under 17 Polluted River Stretch?	Implementing agency	Presently Maintained by	Address of the STP	Status	STP Installed Capacity (MLD)	Technology	Reason for Non-operational	Proposed actions to operate the STP
1	Belagavi	Sadalga	Yes	KUWS&DB	KUWS&DB	Dattawad Road Honde	Non-Operational	3.72	Aerated Lagoon	Due to flood during 2019 & 2020 rain, foundation of the STP is got damaged and seepage started. Rectification was carried out. But again seepage has been observed.	The consultant recommended by IISC Bangalore has given various options for restoration/ relocation of STP. Based on consultant's report DPR is under preparation
2	Gadag	Naragund TMC	No	KUWS&DB	KUWS&DB	In Hirehal	Non-operational	4.18	WSP	HSC's are not provided in the scheme, hence there is no flow of sewage to STP	Estimate for Providing HSCs & Rejuvenation of existing sewer network system amounting to Rs. 1935.00 Lakhs has been submitted to Govt vide Board letter No. 151 Dtd: 21.04.2022
3	Tumkur	Turuvekere	No	KUWS&DB	KUWS&DB	Bidiswaste Sy No 101/1, 101/2, 103/1, 103/2 and others	Non-operational	1.95	Waste stabilization pond	After commissioning of the scheme, pattana panchayat Turuvekere has not accepted for further maintainence of the scheme due to the reason that HSC's were not executed in the scheme	The DPR for 2nd stage UGD Scheme to Turuvekere town for amounting to Rs.9.20Cr is administratively approved vide GO No. UDD/13/UDS/2021 dt: 03-11-2022 and additional Rs.30.00 lakhs shall be borne by ULB under AMRUT.
4	Belagavi	Ramdurga	No	KUWS&DB	KUWS&DB	Halagatti	Non-operational	3.30	WSP	HSC's are not provided in the scheme, hence there is no flow of sewage to STP	The estimate for providing HSC amounting to Rs.592.22 lakhs is forwarded to ULB vide Ltr. No. 1053 Dtd : 01.09.2021
5	Bidar	Humnabad	No	KUIDFC	Concerned ULB	Dummanasoor village, Chinnakera Road, Near Forestry Nursery	Non-operational	6	WSP	New STP work under progress	Administrative approval is accorded for Rs. 1643 lakhs to construct SBR type 5.83 MLD STP and the work is under progress by KUWS&DB. The STP will be made operational with I&D works which is under progress.
6	Haveri	Haveri	No	KUIDFC	Concerned ULB	Siddevapure	Non-operational	4.71	FAL	The internal and outfall sewerline is executed by KHB authorities and the work is under progress. Once the sewer network is completed, sewage will be pumped to STP.	STP trial run carried out on 01-03-2019. The internal and outfall sewerline is executed by KHB authorities and the work is under progress. Once the sewer network is completed, sewage will be pumped to STP. After completion of sewer network with successful flow test, TMC Shikaripura has to insist individual property owners of Shikaripura to take house service connection to sewer network. Once completion of 30 to 40% of individual house service connections in the town, sewage will be generated to wetwell and then to STP.
7	Bagalkote	Hungund	No	KUWS&DB	Concerned ULB	Ramawadagi Village Road	Non-operational	3.50	WSP	After commissioning of the scheme, pattana panchayat Turuvekere has not accepted for further maintainence of the scheme due to the reason that HSC's were not executed in the scheme	The DPR for 2nd stage UGD Scheme to Turuvekere town for amounting to Rs.9.20Cr is administratively approved vide GO No. UDD/13/UDS/2021 dt: 03-11-2022 and additional Rs.30.00 lakhs shall be borne by ULB under AMRUT.
8	Dakshina Kannada	Sullia	No	KUWS&DB	Concerned ULB	Oldgate, Hosagadde, Sullia	Non-Operational	2	Oxidation Pond	No proper sewer network and wetwell	It is proposed to take up the rejuvenation of Wetwell and sewer network work under SBM-2 Used Water Management
9	Bagalkote	Guledgudda	No	ULB	Concerned ULB	Padanakatti Village	Non-operational	4	oxidation pond	No sewer line	Rs. 4.18 Cr is earmarked for providing HSC under Nagarothana-Phase 4. Rs. 1.68 Cr under SFC Special Grants are also reserved for this work

10	Dakshina Kannada	Ullala	No	By KUWSDB	By KUWSDB	Kodikotepura, Ullala	Non-Operational	4.4	SBT	STP at Ullala Kodi Kotepura is trial commissioned on March 2022. In order to commission the sewer network to get the sewage for wetwell at STP, house service connections are to be done by Ullala Municipality. However provision for house service connections is not in the scope of the approved estimate of Ullala UGD and tender. Ullala local body is intimated to do proper arrangements for sewer house service connections.	An estimate for providing UGD House Service Connections amounting to Rs.1054.00 lakhs, estimate for the construction of FSTP (FSSM) at the uncovered areas of UGD network amounting to Rs.323.00 lakhs and estimate for I&D works amounting to Rs.50.00 lakhs has been submitted to the Commissioner, CMC, Ullala by EE Mangalore vide letter No. 904 dated 15-12-2022. Also, requested to reserve 1 Acre of land for the Construction of FSTP at Ullala.
11	Belagavi	Ramadurga	No	By KUWSDB	By KUWSDB	Pudukote	Non-operational	1	MBBR	HSC's are not provided in the scheme, hence there is no flow of sewage to STP	Estimate for providing 5200 No.s of HSC's placed before Board Meeting held on 03.07.2023, after clearance work will be taken up.
12	Uttara Kannada	Dandeli	No	By KUWSDB	By KUWSDB	Nirmal nagar Janata colony-	Non-operational	0.5	Phytorid	Trial run of STP is completed on 23.03.2023.Individual house service connection linking is yet to be initiated by CMC, Dandeli	Individual house owners should linki sewage outlet to UGD System. The matter is brought to the notice of CMC Commissioner Dandeli to conduct public drive to link the HSC's and also during KDP meeting held on 02.06.2023 and also meeting held with CMC,Dandeli on 12-06-2023 regarding providing HSC
39.26											

Annexure-4

List of Under Construction STPs in Karnataka															
Sl. No.	District	ULB name	is ULB under 12 PRS?	Implementing agency	STP location	Proposed capacity (MLD)	Technology used	Status of the project	Physical progress as on 30/12/2023	Physical progress as on 31/01/2024	Physical progress as on 29/02/24	Physical progress as on 31/03/2024	Proposed date of completion	Reason for Slow progress	Remark
1	Bangalore Urban	Bangalore Urban	No	BWSSB	Kaggadasapura	5	SBR	Under construction	29%	31%	35%	38%	31.03.2024	Due to land issue	Work Started
2	Bangalore Urban	Bangalore Urban	No	BWSSB	Hesaraghatta	3	SBR	Under construction	63.40%	70.00%	75%	75%	31.03.2024	Due to heavy rain and site soil condition	
3	Bangalore Urban	Bangalore Urban	No	BWSSB	Pillaganahally	4	SBR	Under construction	67.30%	71.00%	72%	73%	31.12.2024		work is under progress and will be completed within stipulated period
4	Bangalore Urban	Bangalore Urban	No	BWSSB	Varthur	25	SBR	Under construction					31.12.2024	Land issue	
5	Bangalore Urban	Bangalore Urban	No	BWSSB	Talaghattapura	5	SBR	Under construction	67.30%	71.00%	72%	73%	31.12.2024		work is under progress and will be completed within stipulated period
6	Bangalore Urban	Bangalore Urban	No	BWSSB	Nagasandra	9	SBR	Under construction	60%	60%	60%	61%	31.12.2024		work is under progress and will be completed within stipulated period
7	Bangalore Urban	Bangalore Urban	No	BWSSB	Herohally	3	SBR	Under construction	22.20%	35.20%	37%	37%	31.12.2024	LDA -objection to construct STP in designated place.	Land issue
8	Bangalore Urban	Bangalore Urban	No	BWSSB	Karihobanahally	10	SBR	Under construction	49.70%	53.50%	58.80%	61%	31.12.2024		work is under progress and will be completed within stipulated period
9	Bangalore Urban	Bangalore Urban	No	BWSSB	Chikkabanavara	4	SBR	Under construction	43.90%	48.10%	49%	49%	31.12.2024		
10	Bangalore Urban	Bangalore Urban	No	BWSSB	Hosahally	6	SBR	Under construction	30.00%	35.20%	36%	36%	31.12.2024		
11	Bangalore Urban	Bangalore Urban	No	BWSSB	Hemmigepura	13	SBR	Under construction	55.10%	58.00%	59.70%	62%	31.12.2024		
12	Bangalore Urban	Bangalore Urban	No	BWSSB	Somapura	8	SBR	Under construction	19.50%	21.70%	27%	30%	31.12.2024		Land issue
13	Bangalore Urban	Bangalore Urban	No	BWSSB	Bilishivale	17	SBR	Under construction	49.60%	52.70%	53%	54%	31.12.2024		work is under progress and will be completed within stipulated period
14	Bangalore Urban	Bangalore Urban	No	BWSSB	Doddabetta hally	7	SBR	Under construction	49.80%	52.00%	53.50%	55%	31.12.2024		
15	Bangalore Urban	Bangalore Urban	No	BWSSB	Jakkur	7	SBR	Under construction	52.50%	56.00%	56.70%	58%	31.12.2024		
16	Bangalore Urban	Bangalore Urban	No	BWSSB	Yelahanka	6	SBR	Under construction	45.1%	49.0%	49.70%	52%	31.12.2024		
17	Bangalore Urban	Bangalore Urban	Yes	BWSSB	V Valley	150	SBR with ASP	Under construction	20%	20%	20%	20%	26.03.2026		
18	Bangalore Urban	Bangalore Urban	Yes	BWSSB	Kempambudhi	10	SBR	Under construction	15%	15%	15%	15%	15.05.2025		
19	Bangalore Urban	Bangalore Urban	Yes	BWSSB	Mallathahalli	10	SBR	Under construction	15%	15%	15%	15%	15.05.2025		
20	Bangalore Urban	Bangalore Urban	No	BWSSB	Jakkur-down stream	10	SBR	Under construction	10%	10%	10%	10%	23.9.2025		
21	Bangalore Urban	Bangalore Urban	No	BWSSB	Byrahikanne	13	SBR	Under construction	10%	12%	12%	14%	26.9.2025		
22	Bangalore Urban	Bangalore Urban	No	BWSSB	Anjanapura	5	SBR	Under construction	10%	15%	17%	20%	23.9.2025		

23	Bangalore Urban	Bangalore Urban	No	BWSSB	Rachenahalli	10	SBR	Under construction	8%	10%	15%	18%	7.2.2025		
24	Bangalore Urban	Bangalore Urban	No	BWSSB	Horamavu	60	IFAS	Under construction	15%	15%	15%	15%	23.9.2025		
25	Bangalore Urban	Bangalore Urban	No	BWSSB	Hebbal	60	IFAS	Under construction	20%	20%	20%	20%	23.9.2025		
26	Bangalore Urban	Bangalore Urban	No	BWSSB	Kommaghatta	10	SBR	Under construction				12%	26.5.2026		
27	Kolar	KGF(Robertsonpet)	No	KUWS&DB	Parandahalli Tank	5.00	MBBR	Under construction	98%	98%	98%	98%	30.04.2024	Trail operation/ Commissioning work is under process. LD of Rs.56.17Lakhs is levied on agency for delay.	Trail operation/ Commissioning work is under process. Treated water tested on 11-07-2023 and tested parameters are not within the permissible limits. MLSS yet to be developed for continuous operation and to get permissible limits of parameters in the treated sewage.
28	Chikballapur	Bagepalli	No	KUWS&DB	Kurlakunte Kere	4.30	SBT	Under construction	90%	90%	90%	90%	30.04.2024	Delay in handing over of site by ULB for construction of STP. Further, Delay by the agency. EOT will be submitted shortly by proposing Liquidated damages.	Concreting works completed, Finishing works are in progress
29	Bangalore Rural	Hosakote	No	KUWS&DB	Chikkakere	8.52	SBR	Under construction	60%	60%	60%	60%	One year from the date of renewal of CFE	The revised estimate amounting to Rs.70.61Cr is approved vide GO No. NAE/25/ UDS/2021 Bangalore dated 4/11/2022. Technical sanction accorded vide no. 1454 dated 19/11/2022	Intimation letter issued to the agency (M/s Enviro Infra Pvt Ltd) to resume the work vide EE letter no. 1626 dt: 23.11.2022 & letter no. 2155 dt: 10.02.2023. Agency has to resume the work
30	Ramnagara	Bidadi	No	KUWS&DB	Heggadagere	0.16	MBBR	Under construction	90%	90%	95%	95%	31.08.2024	STP work nearing completion. HSC and linking work under progress.	
31	Ramnagara	Bidadi	No	KUWS&DB	Bairamangala	6.20	SBR	Under construction	5%	10%	10%	15%	31.03.2025	Work started	Delay in handing over of site due to public agitation. As the road alignment of KRDCCL is passing through the land handed over for STP, alternate land is proposed with due recommendation of D.C Ramanagara vide DC proceedings Dtd:24/06/2023.
32	Chitradurga	Hosadurga	No	KUWS&DB	Goravinakallu village	3.30	SBR	Under construction		-		92%	31/6/2024	STP commissioned on 22-03-2022 with DG set. Awaiting for power supply. Once the power supply is obtained, STP will be put to use.	STP commissioned on 22-03-2022 with DG set. Awaiting for power supply. Once the power supply is obtained, STP will be put to use.

33	Davangere	Honnali	No	KUWS&DB		0.00	Upgradation to NEBR	Under construction	70%	70%	70%	70%	31-05-2024	Site issue for approach bridge construction to wetwell-2 and delay in manufacturing and supplying of NEBR biomedica from the NEBR technology provider	Previously constructed STP of 3.3MLD capacity WSP technology is being upgraded to NEBR technology to fulfill the present KSPCB norms.
34	Davangere	Channagiri	NO	KUWS&DB	Sy no:105 at Garag	5.20	SBR	Under construction	15%	15%	15%	15%	12.09.2024	Work order for the UGD scheme is issued on 13-09-2022 and stipulated period for completion is 24 months including mansoon.Work is in progress.	Hydraulic design and drawings for Sewer network is approved. Work is in progress. GA and Hydraulic drawings for STP of SBR technology approved. Structural drawings to be submitted by the agency.
35	Tumkur	Tumkur	No	KUWS&DB	Bheemsandra	25.00	SBR	Under construction	100%	100%	100%		31-05-2024	1. Change in type of foundation design of building components of STP 2. Non-availability of approach to STP site due to movement of huge machineries pertaining deepening of Melekote tank. 3. Un-Conventional rainfall from May-2022 to Sep-2022, which led to flooding of STP site. 4.11 KV express feeder main is yet to done to STP, permission from KPTCL and BESCOM authority is awaiting	Work is completed. Commissioning of STP is pending due to non availability of power supply.
36	Shivamogga	Sagar	No	KUWS&DB	Shiravala	9.00	SBR	Under construction	100%	100%	100%	100%	31-12-2021	Delay in issuing CFE from KSPCB, delay due to heavy rainfall, delay by Agency, etc.	1)Land for 10.60 km sewer network is to be provided by ULB. 2) All civil works completed. Balance minor works to be done by the agency. Trail run of sewage rising main was conducted successfully on 05-01-2022. 3) 11 KV express feeder main is yet to done to STP, permission from KPTCL and railway authority is awaiting 4) Functional HSC to UGD network in Zone-1, 2 and 3 has to be taken up by ULB which is under process.
37	Tumkur	Madhugiri	No	KUWS&DB	Solid Waste Management Area (4MLD)	4.00	MBBR	Under construction	91%	91%	91%		31-08-202	Delay by the Agency, Hence LD of Rs.7,85,488.00 Is levied on agency. Delay due to COVID lockdown. Delay in handing over of wetwell land by ULB.	Civil works completed. Finishing work is under progress. Electromechanical components are supplied and to be fixed.Wetwell construction is in progress.
38	Tumkur	Madhugiri	No	KUWS&DB	Lingenahalli Pavagada road	0.60	MBBR	Under construction	88%	92%	95%		30-04-2024		Civil works completed.

39	Kodagu	Madikeri	No	KUWS&DB	K.Badaga village near Golf ground	4.50	SBT	Under construction	10.00%	10.00%	10.00%	10.00%	31.12.2024	1)Non-availability of approach road to STP till March-2021. 2)Works stopped during monsoon. 3)Interference from neighbouring land owners.	The land acquisition is being prepared by Tahshildar, Madikeri. Works will be taken up after the land is notified in the name of CMC, Madikeri.
40	Kodagu	Kushalnagar	No	KUWS&DB	Gummankolli village	6.50	SBT	Under construction	84.00%	84.00%	85.00%	85.00%	31.07.2024	Heavy rain (Jun-22 to Oct-22) & heavy vehicles movement prohibited, hampered transportation of construction materials.	Works are under progress. 1) Under Package-1 Sewer line of 71.87 Kms and House Service connections- 6096 nos are completed. 2) 11 KV work and Erection of pumping machineries to wetwell 2 & 3 is under progress
41	Hassan	Hassan	No	KUWS&DB	Near Bittgondanahalli	10.00	SBR	Under construction	77%	79%	80%	81%	30.06.2024	Slow progress by agency.	STP is upgraded to 20.00 MLD under NGT. Civil works completed. Finishing and Electromechanical works under progress.
42	Hassan	Hassan	No	KUWS&DB	Near KSRTC Bus Stand	10.00	SBR	Under construction	60%	62%	64%	70%	30.06.2024	Delay in handing over of land from ULB.	Work is under progress.
43	Hassan	Hassan	No	KUWS&DB	Hunasina kere	5.00	SBR	Under construction	1%	1%	1%	0%	31.12.2024	1)Delay in handing over of land from ULB. 2)Delay due to public protest. 3)Delay in land acquisition.	Soling work completed. Work stopped due to local protest.
44	Mysore	Hunsuru	Yes	KUWS&DB	Kalkunike	8.00	SBR	Under construction	75%	90.00%	95.00%	97.00%	30.04.2024	1)Delay in handing over of STP site by ULB. 2)Due to heavy rain from June to September. 3) Slow progress by agency.	Concreting work of all Civil Components except PTU of 8 MLD STP is Completed, Finishing work is in Progress, Electromechanical works has to be takenup.
45	Mysore	Bannuru	Yes	KUWS&DB	Bismilla Nagar	0.65		Under construction	95%	95%	98.00%	98.00%	15-04-2024	--	
46	Mysore	Bannuru	Yes	KUWS&DB	Channahalli Gudda	0.65		Under construction	50%	52.00%	70.00%	70.00%	31.08.2024	Delay in handing over of Wetwell sites by ULB	
47	Mysore	Bannuru	Yes	KUWS&DB	Ashraya Badavane Makanahalli	0.23		Under construction	95%	95.00%	98.00%	98.00%	15-04-2024	Delay in handing over of Wetwell sites by ULB	

48	Mysore	Nanjangudu	Yes	KUWS&DB	Near Golur	1.00	SBT	Under construction	89%	91.00%	93.00%	94.00%	30.04.2024	--	Pipeline-23.50 km, Manholes- 619 nos and HSC - 9100 nos completed 1) Upgradation of 7.00 MLD STP to 8.00 MLD SBT type STP:- Reactor 2 walls completed, Filter media first layer(out of 3 layers) filling work completed, Bio Reactor1 - first layer(out of 3 layers)filter media filling work under progress, Admin building & DG building Plastering work under progress, Raw sewage tank slab concrete work in progress. 2). 0.3 MLD SBT STP, Chikmagalur
49	Mysore	Nanjangudu	Yes	KUWS&DB	Near Shankarapura Sy no 1333/7	0.20	SBT	--	0%	0.00%	0.00%	0	Instead of STP, I & D works is executed and linked to existing wetwell	Delay in handing over of STP site by ULB Slow progress by agency.	
50	Mysore	Nanjangudu	Yes	KUWS&DB	Near Military campus Chamlapura Sy no 9	0.30	SBT	--	65%	70.00%	80.00%	85.00%	30.04.2024		
51	Mandya	Sriragapatna	Yes	KUWS&DB	Chandagal road	1.40	SBR	Under construction	60%	60%	70%	80%	31.05.2024	Delay in handing over of STP site by ULB(Feb-2023)	1) SBR-3rd lift of side wall completed, balance work under progress. 2) Admin building & DG room - Column upto 2.0m height from footing is completed and preparation for PCC is in Progress 3) CC tank- 1st lift wall completed
52	Mandya	Maddur	Yes	KUWS&DB	Channegowdanadoddi	0.50	MBBR	Under construction	25%	35%	45%	90%	30.04.2024	--	1) Equilization tank - 2nd lift wall
53	Hassan	Hassan	No	KUWS&DB	Jayanagar	2.00	MBBR	Under construction	0%	0%	0%	0%	31.12.2024	Delay in handing over of STP land.	Due to change in location of STP work is stopped. After handing over of alternative land work to be started.
54	Belagavi	Belagavi	No	KUWS & DB	Halaga	70.00	SBR	Under construction	58%	58%	58%	58%	30.06.2024	delay in handing over of STP land during June - 2020. & heavy rainfall.	Delay in handing over of land for STP
55	Uttara Kannada	Bhatkal	No	KUWS&DB	Venkatapura	3.00	SBR	Under construction	92%	96%	97%	97%	31.12.2024	1) The sewer network laying work is very slow as the local public is agitating. 2) STP civil work is completed and erection of mechanical equipments is put on hold,as only 20 % of sewer network laying is completed.	work is in progress

56	Uttara Kannada	Jali	No	KUWS&DB	Venkatapura	3.00	SBR	Under construction	55%	81%	83%	83%	31.08.2024	1) The proposed STP sites for Bhatkal and Jali towns are adjacent to each other. 2) Due to the site constraints , civil works of STP will be tackled after completion of Bhatkal STP.	1) The proposed STP sites for Bhatkal and Jali towns are adjacent to each other. 2) Due to the site constraints , civil works of STP will be tackled after completion of Bhatkal STP.Hence, date of completion is revised from 09-07.2023 to 30.08.2024.
57	Uttara Kannada	Haliyal	No	KUWS&DB	DK halli road	0.75	Phytorid	Under construction	86%	94%	95%	100%	15-04-2024	1.Proposed land pertains to forest dept. delay in cutting of Sheesam and mango tree by forest department i.e. on Feb 2022. 2. Due to lockdown in the country	work is in progress
58	Vijayapura	Sindhagi	No	KUWS&DB	Sindagi Almel Road	7.37	WSP	Under construction	96%	97%	97%	97%	30.04.2024	Work under progress	Work under progress
59	Belgaum	Ainapur	Yes	KUWS&DB	Revenue Land near Harijankeri	1.66	MBBR	Under construction	60%	62%	77%	77%	20.04.2024	STP land approval is awaited from the Revenue Dept.	STP Plant supplied. Work under progress
60	Belgaum	Kudachi	Yes	KUWS&DB	Dadi Nagar Near Railway Track	2.03	MBBR	Under construction	83%	85%	85%	85%	20.04.2024	Land handed over on 18.05.2022.	STP Plant supplied. Work under progress
61	Belgaum	MK Hubballi	No	KUWS&DB	On Bailhongal Road	0.50	MBBR	Under construction	71%	73%	80%	80%	20.04.2024	Land purchased on 13.02.2023. However, physical access to the site was given to the agency on 16.02.2023	Electro-mechanical works to be taken up.
62	Belgaum	MK Hubballi	No	KUWS&DB	Near Katyankere	0.25	MBBR	Under construction	71%	73%	80%	80%	20.04.2024	Delay in possession of land	Platform completed and compaction completed.
63	Belgaum	Soudatti	No	KUWS&DB	Kenchalarkoppa Road	3.50	SBR	Under construction	45%	48%	48%	48%	31.05.2024	TMC, Saundatti handed over the land for STP during January 2023.	Work under progress.
64	Mandya	Munavali	No	KUWS&DB	Near Grave Yard	1.00	MBBR	Under construction	5%	10%	35%	40%	31.05.2024	Land handed over on 19.10.2022	No physical progress
65	Mandya	Munavali	No	KUWS&DB	Near Panchalingeshwar Temple	0.25	MBBR	Under construction	5%	8%	35%	40%	31.05.2024	Land handed over on 19.10.2022	No physical progress
66	Belagavi	Ugarkhurd	Yes	KUWS&DB	Jamakhadi Kudachi Road	2.10	MBBR	Under construction	10%	20%	32%	32%	31.07.2024	Land handed over on 15.03.2023	Work under progress.
67	Belagavi	Khanapur	No	KUWS&DB	Jain Layout	0.50	MBBR	Under construction	35%	40%	60%	60%	20.04.2024	Land handed over during Sept 2022.	Work under progress.
68	Belagavi	Khanapur	No	KUWS&DB	Jain Layout	0.50	MBBR	Under construction	35%	40%	60%	60%	20.04.2024	Land is handed over to the agency during Sept 2022. Slow progress by the agency.	Slow progress by the contractor.
69	Belagavi	Examba	Yes	KUWS&DB	Ankali Road	1.45	MBBR	Under construction	45%	50%	62%	62%	30.04.2024	Land handed over on 04.01.2023.	Work under progress.
70	Belagavi	Chinchali	Yes	KUWS&DB	Railway Station Road	1.67	MBBR	Under construction	5%	15%	74%	74%	30.04.2024	Land handed over on 06.03.2023.	Work under progress.
71	Kalaburagi	Sedam	No	KUWS&DB	Sy.No 239/2, Sedam Village, Taluka Sedam	9.00	SBR	Under construction	96%	96%	96%			1. Objection by land for laying of sewage pumping main and RCC outfall sewerline. 2. The Pumping machinery tender to be re-invited.	The civil works are almost complete, the tender for pumping machiniers at wet Wells is to be re-invited.

Annexure-5

List of Under Construction STPs in PRS

Sl. No.	District	ULB name	is ULB under 12 PRS?	Implementing agency	STP location	Proposed capacity (MLD)	Technology used	Status of the project	Physical progress as on 31/08/23	Physical progress as on 30/11/23	Physical progress as on 30/12/2023	Physical progress as on 31/01/2024	Physical progress as on 29/02/24	Physical progress as on 31/03/2024	Proposed date of completion	Reason for Slow progress
1	Bangalore Urban	Bangalore Urban	Yes	BWSSB	V Valley	150	SBR with ASP	Under construction	5%	20%	20%	20%	20%		26.03.2026	
2	Bangalore Urban	Bangalore Urban	Yes	BWSSB	Kempambudhi	10	SBR	Under construction	5%	15%	15%	15%	15%		15.05.2025	
3	Bangalore Urban	Bangalore Urban	Yes	BWSSB	Mallathahalli	10	SBR	Under construction	5%	15%	15%	15%	15%		15.05.2025	
4	Mysore	Hunsuru	Yes	KUWS&DB	Kalkunike	8.00	SBR	Under construction	57%	70%	75%	90.00%	95.00%	98.00%	15-04-2024	1) Delay in handing over of STP site by ULB. 2) Due to heavy rain from June to September. 3) Slow progress by agency.
5	Mysore	Bannuru	Yes	KUWS&DB	Channahalli near Mandya Road	1.55	SBT	Under construction	90%	100%	100%	95%	98.00%	98.00%	15-04-2024	--
6	Mysore	Bannuru	Yes	KUWS&DB	Bismilla Nagar	0.65		Under construction	75%	75%	95%	52.00%	70.00%	70.00%	31.08.2024	--
7	Mysore	Bannuru	Yes	KUWS&DB	Channahalli Gudda	0.65		Under construction	15%	50%	50%	95.00%	70.00%	98.00%	15-04-2024	Delay in handing over of Wetwell sites by ULB
8	Mysore	Bannuru	Yes	KUWS&DB	Ashraya Badavane Makaanahalli	0.23		Under construction	50%	50%	95%	91.00%	98.00%	94.00%	30.04.2024	Delay in handing over of Wetwell sites by ULB
9	Mysore	Nanjangudu	Yes	KUWS&DB	Near Golur	1.00	SBT	Under construction	87%	88%	89%	70.00%	93.00%	94.00%	30.04.2024	--
10	Mysore	Nanjangudu	Yes	KUWS&DB	Near Shankarapura Sy no 1333/7	0.20	SBT	--	3%	0%	0%	60%	0.00%	0	Instead of STP, I & D works is executed and linked to existing wetwell	Delay in handing over of STP site by ULB Slow progress by agency.
11	Mysore	Nanjangudu	Yes	KUWS&DB	Near Military campus Chamlapura Sy no 9	0.30	SBT	--	10%	36%	65%	35%	80.00%	85.00%	30.04.2024	

12	Mandya	Sriragapatna	Yes	KUWS&DB	Chandagal road	1.40	SBR	Under construction	30%	55%	60%	62%	70%	80%	31.05.2024	Delay in handing over of STP site by ULB(Feb-2023)
13	Mandya	Maddur	Yes	KUWS&DB	Channegowdan adoddi	0.50	MBBR	Under construction	11%	18%	25%	85%	45%	90%	30.04.2024	---
14	Belgaum	Ainapur	Yes	KUWS&DB	Revenue Land near Harijankeri	1.66	MBBR	Under construction	58%	58%	60%	62%	77%	77%	20.04.2024	STP land approval is awaited from the Revenue Dept.
15	Belgaum	Kudachi	Yes	KUWS&DB	Dadi Nagar Near Railway Track	2.03	MBBR	Under construction	81%	81%	83%	85%	85%	85%	20.04.2024	Land handed over on 18.05.2022.
16	Belagavi	Ugarkhurd	Yes	KUWS&DB	Jamakhandi Kudachi Road	2.10	MBBR	Under construction	10%	10%	10%	20%	32%	32%	31.07.2024	Land handed over on 15.03.2023
17	Belagavi	Examba	Yes	KUWS&DB	Ankali Road	1.45	MBBR	Under construction	45%	45%	45%	50%	62%	62%	30.04.2024	Land handed over on 04.01.2023.
18	Belagavi	Chinchali	Yes	KUWS&DB	Railway Station Road	1.67	MBBR	Under construction	5%	5%	5%	15%	74%	74%	30.04.2024	Land handed over on 06.03.2023.
19	Subramanya		Yes	KUWS & DB		3.00	SBR						15%	20%	21-08-2024	

196.39

Annexure -6 Details of Proposed STPs in the state

Sl. No.	ULB name	Is ULB under 1 polluted river stretch ? (Yes/No)	Technology of proposed STP	STP capacity Proposed (in MLD)	Status of the proposal as on 30.09.2023 PI select the options only	Status of the proposal as on 30.12.2023 PI select the options only	Status of the proposal as on 31.01.2024 PI select the options only	Status of the proposal as on 29.02.2024 PI select the options only	Status of the proposal as on 31.03.2024 PI select the options only	Proposed date of completion (please mention only date)	Remarks
1	2	3	4	5						9	10
1	Sagar	No	NEBR	0.62	DPR under preparation	DPR submitted	DPR submitted	DPR submitted		-	DPR to be prepared with technology which is having less constructional cost. Work will be completed One year after entrustment
2	Kunigal	No	MBBR	5.80	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR submitted	-	Revised estimate amounting to Rs.4291.00lakhs submitted to GoK Vide ltr no.2712 dtd:25-01-2019 for approval. Work will be completed 1 year after entrustment
3	Kunigal	No	MBBR	0.30	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR submitted	-	Revised estimate amounting to Rs.4291.00lakhs submitted to GoK Vide ltr no.2712 dtd:25-01-2019 for approval. Work will be completed 1 year after entrustment
4	Gubbi	No	SBT	2.90	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR submitted	-	Revised estimate amounting to Rs.2928.00lakhs submitted to GoK Vide ltr no.2350 dtd:18-12-2018 for approval. Work will be completed 1 year after entrustment
5	Tumakuru	No	MBBR	0.13	DPR under preparation	DPR under preparation	DPR under prepar	DPR under preparation	DPR under preparation	-	3 nos. of De-centralized STPs of 190 KLD, 130 KLD & 500 KLD are proposed under 2nd Stage UGD Scheme to Tumakuru City as per the approved designs. The DPR for the same has been submitted to Gok under
6	Tumakuru	No	MBBR	0.50	DPR under preparation	DPR under preparation	DPR under prepar	DPR under preparation	DPR under preparation	-	An estimate amounting to Rs. 6800.00 Lakhs for providing UGD Scheme to
7	Tumakuru	No	MBBR	0.19	DPR under preparation	DPR under preparation	DPR under prepar	DPR under preparation	DPR under preparation	-	Koratagere town has been submitted to
8	Koratagere	No	SBR	2.30	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR submitted	-	Work will be completed after 1 year after entrustment of work to the agency. RE to be submitted for approval to take up the balance works.
9	Koratagere	No	MBBR	0.10	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR submitted	-	DPR for 4th Stage UGD scheme to Chintamani town amounting to Rs.5250.00 Lakhs is prepared and the same is under scrutiny.
10	Koratagere	No	MBBR	0.10	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR submitted	-	The STP is proposed near existing 3.10MLD STP at Belluti tank. The DPR amounting to Rs. 44.90 Cr returned from the Government due to shortage of funds vide ltr no UDD/06/UWS/2019 dtd 14.08.2019. Survey estimate for preparing DPR for providing 2nd stage UGD scheme to Shidlaghatta city for Newly developed areas amounting to Rs.6.00 Lakhs has been submitted to CMC, Shidlaghatta for depositing the amount. DPR will be re-submitted shortly.
11	Mulbagal	No	SBT	1.00	DPR under preparation	DPR under preparation		DPR under preparation	DPR under preparation	-	
12	CMC, Chintamani	No	SBR	6.40	DPR under preparation	-	DPR under preparation	DPR under preparation		-	
13	CMC, Siddlaghatta	No	SBR	6.60	DPR under preparation	DPR under preparation	DPR under preparation	DPR under preparation	DPR under preparation	-	

14	Kolar	No	SBR	8.00	Land acquisition	Land Acquisition	Land Acquisition	Land Acquisition	Land acquisition	-	ULB yet to obtain consent/ hand over the alternative site for STP construction.
15	Bagepalli	No	SBT	0.55	Land acquisition	Land Acquisition	Land Acquisition	Land Acquisition	Land acquisition	30-04-2024	Land for 0.55MLD STP of SBT technology, land is allocated in survey No.144 near Reddykere is submerged.Alternate land is yet to be handed over by the ULB.
16	Hiriyur	No	SBR	5.00	Tendering	Tendering	Tendering	Tendering	Tendering	-	UGD scheme to Hiriyur town is Administratively Approved to Rs.100.00Cr and Tender yet to be invited.
17	CN Halli	No	SBR	2.60		Land Acquisition	Land Acquisition	Land Acquisition	Land Acquisition	12-07-2024	Land is yet to be handedover by TMC C N halli to Board. Work will be commenced after handing over of the land
18	CN Halli	No	MBBR	0.10		-	-	-	-	12-07-2024	Land is yet to be handedover by TMC C N halli to Board. Work will be commenced after handing over of the land
19	CN Halli	No	MBBR	0.10		DPR under preparation	DPR under prepar	DPR under preparation	DPR under preparation	12-07-2024	Land is yet to be handedover by TMC C N halli to Board. Work will be commenced after handing over of the land
20	CN Halli	No	MBBR	0.72		Land acquisition	Land acquisition	Land acquisition	Land acquisition	12-07-2024	Land is yet to be handedover by TMC C N halli to Board. Work will be commenced after handing over of the land
21	Bidadi	No	MBBR	0.10	Land acquisition	Land Acquisition	Land Acquisition	Land Acquisition	Land Acquisition	-	Land is yet to handed over by Fishary department
22	Bidadi	No	MBBR	0.10	Land acquisition	Land Acquisition	Land Acquisition	Land Acquisition	Land Acquisition	-	Land is yet to handed over by ULB
23	Hosakote	No	MBBR	1.82	Tendering	Tendering	Tendering	Tendering	Tendering	30.06.2025	3rd call tender invited
24	Hebbagodi	No	SBR	24.00	Land acquisition	Land Acquisition	Land Acquisition	Land Acquisition	Land Acquisition	-	The DC, Bengaluru Urban district has requested the Principal Secretary of Government, Revenue department to
25	Bommasandra	No	SBR	10.00	Land acquisition	Land Acquisition	Land Acquisition	Land Acquisition	Land Acquisition	-	The DC, Bengaluru Urban district has requested the Principal Secretary of Government, Revenue department to accord permission to acquire the land at Sy. No. 129 & 130 of Attibele-2 Heelalige village to take up the work within the time limit under Transparency, Suitable compensation right, Reconstruction and renovation policy -2013 Chapter-5 under Clause-40 Urgency clause and also requested to accord exemption for Social Impact Assessment (SIA) vide letter dtd: 10.07.2023.

26	Jigani	No	SBR	6.00	Land acquisition	Land Acquisition	Land Acquisition	Land Acquisition	Land Acquisition	-	2 acres of land approved by DC for construction of STP vide order No.LND (A)/CR 99/2012-13 Dated:26.12.2012 and the KSPCB has denied the clearance vide letter dtd: 02.05.2023 as the land comes in the buffer zone of the lake. Land for construction of STP is identified. Proposal has been sent for acquisition. Hence, land has to be acquired & handed over to the Board by ULB.
27	Jigani	No	MBBR	0.10	Land acquisition	Land Acquisition	Land Acquisition	Land Acquisition	Land Acquisition	-	The DC, Bengaluru Urban district has requested the Principal Secretary of Government, Revenue department to accord permission to acquire the land at Sy. No. 523, 524, 525 at Hennagara village, Attibele-2, to take up the work within the time limit under Transparency, Suitable compensation right, Reconstruction and renovation policy -2013 Chapter-5 under Clause-40 Urgency clause and also requested to accord exemption for Social Impact Assessment (SIA) vide letter dtd:10.07.2023.
28	Chandapura	No	SBR	6.00	Land acquisition	Land Acquisition	Land Acquisition	Land Acquisition	Land Acquisition	-	The DC, Bengaluru Urban district has requested the Principal Secretary of Government, Revenue department to accord permission to acquire the land at Sy. No. 82, 83, 84 of Heelalige village, Attibele-2, to take up the work within the time limit under Transparency, Suitable compensation right, Reconstruction and renovation policy - 2013 Chapter-5 under Clause-40 Urgency clause and also requested to accord exemption for Social Impact Assessment (SIA) vide letter dtd:10.07.2023.
29	Nelamangala	No	SBR	15.00	DPR submitted	DPR's submitted to KUIDFC	DPR's submitted to KUIDFC	DPR's submitted to KUIDFC as per direction	DPR's submitted to KUIDFC as per direction	-	The estimate for providing UGD scheme to Nelamanga town amounting to Rs.270.45 Crores is submitted to Government vide letter No. 27, Dated:06.04.2022 for Administrative approval. The land for STP which was handed over previously comes under buffer zone. Hence, alternative land is to be identified and handed over. DPR is to be re-casted to the present UNI-SR.

30	Madanayakanahalli	No	SBR	15.00	DPR under preparation	DPR's submitted to KUIDF	DPR's submitted	DPR's submitted to KUIDFC as per direction	DPR's submitted to KUIDFC as per direction	-	DPR for providing UGD scheme to Madanayakanahalli town is prepared and will be submitted to Government for Administrative approval after obtaining the land for construction of STP and wetwell from ULB
31	Pandavapura	No	SBT	3.00	DPR submitted	DPR submitted	DPR submitted	DPR submitted		-	DPR for Construction of 4.00 MLD SBR type STP and other balance work to Rs.23.70 crores submitted to Gok, Dt: 07.03.2023.
32	Bantwala	Yes	SBR	4.14	DPR submitted	Land handed over to Board on 25-08-2023	Land handed over to Board on 25-08-2023	Land handed over to Board on 25-08-2023	Land handed over to Board on 25-08-2023	-	2nd phase modified estimate for providing UGD scheme to 5 zones instead of 7 zones, cost limiting to Rs.56.54 crore submitted to Govt. letter Dt: 30-06-2023 for Approval.
33	Bantwala	Yes	SBR	0.22	DPR under preparation	DPR under preparation	DPR under preparation	DPR under preparation	DPR under preparation	-	STP land handed over. Hence, 3rd phase UGD scheme to Rs. 30.10 crore has been prepared, will be submitted to Govt. for approval after land for 2 nos wetwells are acquired.
34	Arkalgud	No	WSP	1.00	Land acquisition	Land acquisition	Land acquisition	Land acquisition	Land acquisition	-	After handing over of land for wetwell and STP to Board work will be taken up.
35	Arkalgud	No	WSP	1.50	Land acquisition	Land acquisition	Land acquisition	Sub- Estimate submitted for Land acquisition	Sub- Estimate submitted for	-	
36	Ullala	No	SBT	1.70	Land acquisition	Land acquisition	Land acquisition		Land acquisition	-	STP & Wetwell Land yet to be handed over by TMC since acquisition process is not completed due to litigation pending at Hon'ble High Court.
37	Kaup	No	SBR	0.30	Land acquisition	Land acquisition	Land acquisition	Land acquisition	Land acquisition	-	Land required for STP has to be finalised by TMC.
38	Kundapur	No	SBR	2.80	Land acquisition	Land acquisition	Land acquisition	Land acquisition	Land acquisition	-	Tender to be invited. Land required for approach road to STP and wetwell -7 is to be handed over by TMC, Kundapura.
39	Kundapur	No	SBR	0.14	Land acquisition	Land acquisition	Land acquisition	Land acquisition	Land acquisition	-	Work not take up due to non availability of land.
40	Kundapur	No	SBR	0.07	Land acquisition	Land acquisition	Land acquisition	Land acquisition	Land acquisition	-	-----do-----
41	Belluru	No	MBBR	1.35	DPR submitted	DPR submitted	DPR submitted	DPR Submitted	DPR submitted	-	The DPR Rs. 6635.00 lakhs submitted to Govt vide Ltr No. 320/2021-22 Dt: 28.05.2022 and approval awaited

42	Belluru	No	MBBR	1.35	DPR submitted	DPR submitted	DPR submitted	DPR Submitted	DPR submitted	-	
43	Belluru	No	MBBR	1.35	DPR submitted	DPR submitted	DPR submitted	DPR Submitted	DPR submitted	-	
44	Belluru	No	MBBR	0.30	DPR submitted	DPR submitted	DPR submitted	DPR Submitted	DPR submitted	-	
45	Belluru	No	MBBR	0.10	DPR submitted	DPR submitted	DPR submitted	DPR Submitted	DPR submitted	-	
46	Belluru	No	MBBR	0.10	DPR submitted	DPR submitted	DPR submitted	DPR Submitted	DPR submitted	-	
47	Kushtagi	No	SBR	4.51	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	DPR Rs. 6553.00 lakhs submitted to Govt vide Ltr No. 1138 Dtd: 17-10-2020. Now as per the directions of the Govt vide letter No.UDD/1/UDS/2021 Date: 30.08.2021 the recasted estimate will be submitted shortly for Approval.
48	Kerur	No	SBR	3.50	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	DPR Rs.6835.00 lakhs submitted to Govt vide Ltr No. 2991, Dtd: 29-02-2020. Approval is awaited
49	Guledgudda	No	SBR	5.32	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	DPR Rs.4800.00 lakhs is prepared and same is cleared in Board Meeting. Now the said estimate will be submitted shortly to the Govt for Approval.
50	Mulagund TP	No	SBR	3.00	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	DPR Rs. 5500.00 lakhs submitted to Govt vide Ltr No. 2448, Dtd: 30-12-2019. Approval awaited
51	Khanapura	Yes	SBR	3.70	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	DPR of Rs. 6657.00 lakhs submitted to Govt vide Ltr No. 2026 Dtd : 08-11-2019.
52	M.K.Hubli	Yes	SBR	4.40	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	DPR Rs. 5466.00 lakhs submitted to Govt vide Ltr No. 1916 Dtd: 28-10-2019. Approval is awaited.
53	Saundatti (TP)	Yes	MBBR	0.50	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	DPR Rs. 10430.00 lakha submitted to Govt vide Ltr No. 01 Dtd : 02-04-2019 and approval is awaited.
54	Saundatti (TP)	Yes	SBR	8.50	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	DPR Rs. 10430.00 lakha submitted to Govt vide Ltr No. 01 Dtd : 02-04-2019 and approval is awaited.

55	Munavalli	Yes	SBR	5.30	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	Estimate Rs. 6876.00 lakhs submitted to Govt vide Ltr No. 1917 Dtd: 28-10-2019 and Approval is awaited.
56	Kudachi (TMC)	Yes	SBR	3.66	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	Estimate Rs. 7341.00 lakhs submitted to Govt vide Ltr No. 1842 Dtd: 19-10-2019 and approval is awaited.
57	Examba (TP)	Yes	SBR	2.61	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	DPR Rs. 7372.00 lakhs submitted to Govt vide Ltr No. 1136 Dtd: 17-10-2020 and approval is awaited.
58	Ainapur (TP)	Yes	SBR	4.37	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	DPR Rs. 6988.00 lakhs submitted to Govt vide Ltr No. 1036 Dtd: 01-08-2019 and approval is awaited.
59	Chinchili (TP)	Yes	SBR	3.88	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	DPR Rs. 6060.00 lakhs submitted to Govt vide No. 1137 Dtd: 17-10-2020 and approval is awaited.
60	Karwar	Yes	SBR	7.00	DPR under preparation	Under prepration	Under preparation	Under Prepration	DPR under preparation	NA	
61	Karwar	Yes	Package plant	1.00	DPR under preparation	Under prepration	Under preparation	Under Prepration	DPR under preparation	NA	
62	Karwar	Yes	Package plant	1.00	DPR under preparation	Under prepration	Under preparation	Under Prepration	DPR under preparation	NA	
63	Harugeri	No	SBR	6.38	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	DPR Rs. 8595.00 lakhs submitted to Govt vide No. 2025 Dtd: 08-11-2019 and Approval from Govt is awaited
64	Athani	No	SBR	11.52	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	DPR Rs. 22310.00 lakhs submitted to Govt vide No. 839 Dtd: 31.08.2020 and Approval from Govt is awaited
65	Annigeri	No	SBR	3.66	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	DPR Rs. 9340.00 lakhs submitted to Govt vide Ltr No.1030 Dt: 01-08-2019 and approval is awaited
66	Hubli - Dharwad	No	SBR	4.00	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	DPR Rs. 49291.00 lakhs submitted to Govt vide Ltr No. 251 Dt: 18-05-2020 Approval from Govt is awaited
67	Hubli - Dharwad	No	SBR	9.00	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	
68	Hubli - Dharwad	No	SBR	3.00	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	
69	Hubli - Dharwad	No	Phythorid	0.25	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	
70	Hubli - Dharwad	No	Phythorid	0.50	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	
71	Hubli - Dharwad	No	Phythorid	0.75	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	
72	Hubli - Dharwad	No	Phythorid	1.00	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA	
73	Sankeshwar	No	SBR	5.70	DPR Approved	DPR Approved	DPR Approved	DPR Approved	DPR Approved	NA	DPR Approved for Rs. 9322.00 lakhs vide Govt Order No. UDD/3/UDS/2019, Bengaluru Dtd: 29.03.2023.Tenders are to be invited
74	Karwar	Yes	SBR	3.00	Tenders are to be reinvited	Tender are to be invoited	Tender to be invited	Tender to be Invited	Tender to be Invited	NA	NOC from CRZ for construction of wetwell and STP and CFE from KSPCB is awaited.
75	Kumta	No	SBR	4.60	revised estimate is to be approved	RE to be approved	RE is to be approved	RE is to be Approved	RE is to be Approved	NA	revised estimate is to be approved
76	Honnavaara	No	SBR	2.60	Work not started due to public protest	Agitation from Public	Agitation from public	Agitation from Public	Agitation from Public	NA	Agitation from local people
77	Bhatkal	No	MBBR	2.50	Land acquisition	Land acquisition	land Acquisition	Land Acquisition	Land Acquisition	NA	Private land is identified and is to be handed over by ULB

78	Haliyal	No	SBR	3.50	Land acquisition	Land acquisition	land Acquisition	Land Acquisition	Land Acquisition	NA	Local body has to provide alternate land
79	CMC, Shahapura	No	SBR type	13.00	DPR submitted	Estimate not yet approved	Estimate not yet approved	Estimate not yet approved	Estimate not yet approved	-	DPR prepared for Rs.17260.00 Lakhs and Submitted to the Govt vide letter No.526 date : 15--07--2019 for Administrative Approval.
80	CMC, Shorapura	No	SBR type	7.50	DPR submitted	Estimate not yet approved	Estimate not yet approved	Estimate not yet approved	Estimate not yet approved	-	DPR prepared for Rs. 5041.00 Lakhs and Submitted to the Govt vide letter No.1114 date : 13--11--2019 for Administrative Approval.
81	CMC, Shorapura	No	SBR type	1.00	DPR submitted	Estimate not yet approved	Estimate not yet approved	Estimate not yet approved	Estimate not yet approved	-	
82	CMC, Shorapura	No	SBR type	0.75	DPR submitted	Estimate not yet approved	Estimate not yet approved	Estimate not yet approved	Estimate not yet approved	-	
83	CMC, Shorapura	No	NEBR	0.15	DPR submitted	Estimate not yet approved	Estimate not yet approved	Estimate not yet approved	Estimate not yet approved	-	
84	TMC, Aland	No	SBR type	8.18	DPR submitted	The estimate is returned from Govt. stating that "No new projects should be proposed for the next two years, that is April 2023. vide UDD letter No. UDD/20/UDS/2020 dated 18-02-2021.	The estimate is returned from Govt. stating that "No new projects should be proposed for the next two years, that is April 2023. vide UDD letter No. UDD/20/UDS/2020 dated 18-02-2021.	The estimate is returned from Govt. stating that "No new projects should be proposed for the next two years, that is April 2023. vide UDD letter No. UDD/20/UDS/2020 dated 18-02-2021.	The estimate is returned from Govt. stating that "No new projects should be proposed for the next two years, that is April 2023. vide UDD letter No. UDD/20/UDS/2020 dated 18-02-2021.	-	DPR prepared for Rs.11845.00 Lakhs and Submitted to the Govt vide Managing Director, KUWSDB, Kalburgi letter No.770 date : 12-10-2020 for Administrative Approval.
85	CCB, Ballari	No	SBR Type	2.00	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR submitted	-	DPR prepared for Rs.255.00 crores. It is cleared in 107th TA & TSC Meeting on 11-06-2021 and 296th Board meeting held on 25-06-2021 & Submitted to Government for Administrative approval by the Managaing Director, KUWS & DB, Bengaluru vide ltr no. 524 Dated: 31-07-2021.
86	CCB, Ballari	No	SBR Type	2.00	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR submitted	-	
87	CCB, Ballari	No	SBR Type	2.00	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR submitted	-	
88	CCB, Ballari	No	SBR Type	4.50	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR submitted	-	
89	CMC, Raichur	No	SBR Type	10.00	PR under preparati	DPR submitted	DPR submitted	DPR submitted	DPR submitted	-	
90	TMC, Deodurga	No	SBR Type	5.00	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR submitted	-	DPR prepared for Rs.3694.00 Lakhs and Submitted to the Govt vide Managing Director, KUWSDB, Bengaluru letter No.1173 date : 18-01-2021 for Administrative Approval.

Annexure 7 Proposed STPs in PRS

Sl. No.	ULB name	Is ULB under 1 polluted river stretch ? (Yes/No)	Technology of proposed STP	STP capacity Proposed (in MLD)	Status of the proposal as on 30.06.2023	Status of the proposal as on 31.07.2023	Status of the proposal as on 31.08.2023	Status of the proposal as on 30.09.2023 PI select the options only	Status of the proposal as on 30.12.2023 PI select the options only	Status of the proposal as on 31.01.2024 PI select the options only	Status of the proposal as on 29.02.2024 PI select the options only	Status of the proposal as on 31.03.2024 PI select the options only	Proposed date of completion (please mention only date)
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Bantwala	Yes	SBR	4.14	Land acquisition to be re-initiated	Land acquisition	DPR submitted	DPR submitted	Land handed over to Board on 25-08-2023	Land handed over to Board on 25-08-2023	Land handed over to Board on 25-08-2023	Land handed over to Board on 25-08-2023	-
2	Bantwala	Yes	SBR	0.22	DPR under preparation	DPR under preparation	DPR under preparation	DPR under preparation	DPR under preparation	DPR under preparation	DPR under preparation	DPR under preparation	-
3	Khanapura	Yes	SBR	3.70	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA
4	M.K.Hubli	Yes	SBR	4.40	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA
5	Saundatti (TP)	Yes	MBBR	0.50	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA
6	Saundatti (TP)	Yes	SBR	8.50	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA
7	Munavalli	Yes	SBR	5.30	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA
8	Kudachi (TMC)	Yes	SBR	3.66	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA
9	Examba (TP)	Yes	SBR	2.61	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA
10	Ainapur (TP)	Yes	SBR	4.37	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA

11	Chinchili (TP)	Yes	SBR	3.88	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR submitted	DPR Submitted	DPR Submitted	DPR submitted	NA
12	Karwar	Yes	SBR	7.00	DPR under preparation	DPR under preparation	DPR under preparation	DPR under preparation	Under prepration	Under preparation	Under Prepration	DPR under preparation	NA
13	Karwar	Yes	Packag e plant	1.00	DPR under preparation	DPR under preparation	DPR under preparation	DPR under preparation	Under prepration	Under preparation	Under Prepration	DPR under preparation	NA
14	Karwar	Yes	Packag e plant	1.00	DPR under preparation	DPR under preparation	DPR under preparation	DPR under preparation	Under prepration	Under preparation	Under Prepration	DPR under preparation	NA
15	Karwar	Yes	SBR	3.00	Tenders are to be reinvited	Tenders are to be reinvited	Tenders are to be reinvited	Tenders are to be reinvited	Tender are to be invoitied	Tender to be invited	Tender to be Invited	Tender to be Invited	NA

53.28

Annexure-8

Details of FSTP under NGT Matter OA No 673/2018						
Status of proposed FSSP						
Sl. No.	Name of ULB	Is ULB under 17 polluted river stretch?	Technology proposed FSTP	Proposed capacity of Capacity in KLD	Status of the proposal (DPR preparation/DPR submitted /tendered/ land acquisition/work order issued/Work Under Progress)	Proposed date of completion
1	Vijayapura	No	Planted Dry Bed	9	Work Under Progress	
2	Pavagada	No	Planted Dry Bed	6	Work Under Progress	
3	Bangarpete	No	Planted Dry Bed	12	Work Under Progress	
4	H D Kote	No	Planted Dry Bed	6	Work Under Progress	
5	Holalkere	No	Planted Dry Bed	6	Work Under Progress	
6	Hosanagara	No	Planted Dry Bed	3	Work Under Progress	
7	Thirthahalli	No	Planted Dry Bed	3	Work Under Progress	
8	Narsimharajpura	No	Planted Dry Bed	3	Work Under Progress	31.10.2023
9	Alur	No	Planted Dry Bed	3	Work Under Progress	
10	Hanur	No	Planted Dry Bed	3	Work Under Progress	
11	Somavarpete	No	Planted Dry Bed	3	Work Under Progress	
12	Virajpete	No	Planted Dry Bed	6	Work Under Progress	
13	Mundagod	No	Planted Dry Bed	6	Work Under Progress	
14	Hanagal	No	Planted Dry Bed	9	Work Under Progress	
15	Alnavar	No	Planted Dry Bed	6	Work Under Progress	
16	Terdal	No	Planted Dry Bed	6	Work Under Progress	
17	Kerur	No	Planted Dry Bed	6	Work Under Progress	
18	Raybag	No	Planted Dry Bed	6	Work Under Progress	
19	Konnur	No	Planted Dry Bed	3	Work Under Progress	
20	Mudalgi	No	Planted Dry Bed	6	Work Under Progress	
21	Kallolli	No	Planted Dry Bed	3	Work Under Progress	
22	P G Mallapura	No	Planted Dry Bed	3	Work Under Progress	
23	Arabhavi	No	Planted Dry Bed	3		

24	Naganur	No	Planted Dry Bed	3		
25	Athani	No	Planted Dry Bed	1 2	Work Under Progress	
26	Nipani	No	Planted Dry Bed	1 2	Work Under Progress	
27	Puttur	No	Planted Dry Bed	1 5	DPR is prepared & directed for revision	
28	Tarikere	No	Planted Dry Bed	1 2	DPR is prepared & directed for revision	
29	Boragaon	No	Planted Dry Bed	3	Work Under Progress	
30	Mulagunda	No	Planted Dry Bed	6		
31	Savanur	No	Planted Dry Bed	1 2		
32	Sirsi	No	Planted Dry Bed	1 5		
33	Aurad	No	Planted Dry Bed	6	To be recalled (call 4)	31.10.2023
34	Shahabad	No	Planted Dry Bed	1 2	To be recalled (call 4)	
35	Chincholi	No	Planted Dry Bed	9		
36	Afzalpur	No	Planted Dry Bed	1 2	To be recalled (call 4)	
37	Shahpura	No	Planted Dry Bed	1 8		
38	Siraguppa	No	Planted Dry Bed	1 5	To be recalled (call 4)	
39	Tekkalkote	No	Planted Dry Bed	9		
40	Kustagi	No	Planted Dry Bed	9		
41	Manvi	No	Screw press	1 5	To be recalled (call 4)	
42	Basavakalyana	No	Screw press	1 8	To be recalled (call 4)	
43	Karkala	No	Planted Dry Bed	6	Commissioned	
44	Vitla	No	Planted Dry Bed	9	Work Under Progress	31.10.2023
45	Sakaleshpura	No	Planted Dry Bed	6	Work Under Progress	

List of proposed FSTP (which is yet to get approval from Government)						
Sl. No.	Name of ULB	Is ULB under 17 polluted river stretch?	Technology proposed FSTP	Proposed capacity of Capacity in KLD	Status of the proposal (DPR preparation/DPR submitted /tendered/ land acquisition/work order issued)	Proposed date of completion
46	Hunasamaranahalli	No	Planted Dry Bed	12		
47	Chikkabanavara	No	Planted Dry Bed	12		

48	Madnayakanahalli	No	Planted Dry Bed	29
49	Attibele	No	Planted Dry Bed	10
50	Chandapura	No	Planted Dry Bed	12
51	Basheetyhalli	No	Planted Dry Bed	9
52	Vemagal-Kurugal	No	Planted Dry Bed	7
53	Robertsonpete	No	Planted Dry Bed	39
54	Gudibande	No	Planted Dry Bed	16
55	Harohalli	No	Planted Dry Bed	12
56	Holalkere	No	Planted Dry Bed	19
57	Chalakere	No	Planted Dry Bed	13
58	Hiriyuru	No	Planted Dry Bed	9
59	Holalkere	No	Planted Dry Bed	11
60	Molakalmuru	No	Planted Dry Bed	11
61	Nayakanahatti	No	Planted Dry Bed	8
62	Honnali	No	Planted Dry Bed	16
63	Nyamathi	No	Planted Dry Bed	12
64	Channagiri	No	Planted Dry Bed	19
65	Jagaluru	No	Planted Dry Bed	13
66	Huliyur	No	Planted Dry Bed	9
67	Koratagere	No	Planted Dry Bed	11
68	Madhugiri	No	Planted Dry Bed	11
69	Anavati	No	Planted Dry Bed	8
70	Sorba	No	Planted Dry Bed	8
71	Shiralkoppa	No	Planted Dry Bed	16
72	Holehonnuru	No	Planted Dry Bed	12
73	Ramnahalli	No	Planted Dry Bed	19
74	Kadakola	No	Planted Dry Bed	13
75	Bogadi	No	Planted Dry Bed	9

Not applicable

Not applicable

76	Hootagalli	No	Planted Dry Bed	11
77	Srirampura	No	Planted Dry Bed	11
78	Peeriyapattan	No	Planted Dry Bed	8
79	Sarguru	No	Planted Dry Bed	16
80	Bynadoor	No	Planted Dry Bed	12
81	Saligrama	No	Planted Dry Bed	19
82	Ajjampura	No	Planted Dry Bed	13
83	Kadur	No	Planted Dry Bed	9
84	Mudigere	No	Planted Dry Bed	11
85	Sringeri	No	Planted Dry Bed	11
86	Someshwara	No	Planted Dry Bed	8
87	Kinnigoli	No	Planted Dry Bed	16
88	Kadaba	No	Planted Dry Bed	12
89	Bajapi	No	Planted Dry Bed	19
90	Kotekaru	No	Planted Dry Bed	13
91	Moodabidri	No	Planted Dry Bed	9
92	Mulki	No	Planted Dry Bed	11
93	Yelandur	No	Planted Dry Bed	11
94	Chanarayapatna	No	Planted Dry Bed	8
95	Ankalagi & Akkathangeral	No	Planted Dry Bed	16
96	Machai	No	Planted Dry Bed	12
97	Piranwadi	No	Planted Dry Bed	19
98	Malapura PG	No	Planted Dry Bed	13
99	Kagawada	No	Planted Dry Bed	9
100	Yaragatti	No	Planted Dry Bed	11
101	Harurgeri	No	Planted Dry Bed	11
102	Kabburu	No	Planted Dry Bed	8
103	Kankanwadi	No	Planted Dry Bed	16

104	Mugalkhod	No	Planted Dry Bed	12
105	Shedbal	No	Planted Dry Bed	19
106	Shiruru	No	Planted Dry Bed	13
107	Lokapura	No	Planted Dry Bed	9
108	Ameenagada	No	Planted Dry Bed	11
109	Belagali	No	Planted Dry Bed	11
110	Kamatgi	No	Planted Dry Bed	8
111	Mahalingapura	No	Planted Dry Bed	16
112	Annigeri	No	Planted Dry Bed	12
113	Kalaghatagi	No	Planted Dry Bed	19
114	Kundagol	No	Planted Dry Bed	13
115	Navalagunda	No	Planted Dry Bed	9
116	Gajendragada	No	Planted Dry Bed	11
117	Mundargi	No	Planted Dry Bed	11
118	Ron	No	Planted Dry Bed	8
119	Shirahatti	No	Planted Dry Bed	16
120	Thikota	No	Planted Dry Bed	12
121	Babaleshwar	No	Planted Dry Bed	19
122	Alamel	No	Planted Dry Bed	13
123	Chadachan	No	Planted Dry Bed	9
124	Devarahipparagi	No	Planted Dry Bed	11
125	Kolhara	No	Planted Dry Bed	11
126	Managuli	No	Planted Dry Bed	8
127	Nalatavada	No	Planted Dry Bed	16
128	Nidagundi	No	Planted Dry Bed	12
129	Bankapura	No	Planted Dry Bed	19
130	Bydagi	No	Planted Dry Bed	13
131	Guthala	No	Planted Dry Bed	9

Not applicable

Not applicable

132	Shiggaon	No	Planted Dry Bed	11
133	Rattihalli	No	Planted Dry Bed	11
134	Ankola	No	Planted Dry Bed	8
135	Dandeli	No	Planted Dry Bed	16
136	Haliyal	No	Planted Dry Bed	12
137	Naregal	No	Planted Dry Bed	19
138	Jali	No	Planted Dry Bed	13
139	Siddapura	No	Planted Dry Bed	9
140	Yellapura	No	Planted Dry Bed	11
141	Manki	No	Planted Dry Bed	11
142	Jalahalli	No	Planted Dry Bed	8
143	Balagnur	No	Planted Dry Bed	16
144	Kavitala	No	Planted Dry Bed	12
145	Lingasuguru	No	Planted Dry Bed	19
146	Maski	No	Planted Dry Bed	13
147	Mudgal	No	Planted Dry Bed	9
148	Sirwar	No	Planted Dry Bed	11
149	Turvihal	No	Planted Dry Bed	11
150	Yadrami	No	Planted Dry Bed	8
151	Kamalapura	No	Planted Dry Bed	16
152	Kalgi	No	Planted Dry Bed	12
153	Wadi	No	Planted Dry Bed	19
154	Aland	No	Planted Dry Bed	13
155	Kakkera	No	Planted Dry Bed	9
156	Kembhavi	No	Planted Dry Bed	11
157	Hunsugi	No	Planted Dry Bed	11
158	Bhagyanagar	No	Planted Dry Bed	8
159	Kanakgiri	No	Planted Dry Bed	16

160	Karatgi	No	Planted Dry Bed	12		
161	Kukanoor	No	Planted Dry Bed	19		
162	Tavargera	No	Planted Dry Bed	13		
163	Yelburga	No	Planted Dry Bed	9		
164	Chitguppa	No	Planted Dry Bed	11	Not applicable	Not applicable
165	Kamlanagar	No	Planted Dry Bed	11		
166	Hulsoor	No	Planted Dry Bed	8		
167	Hagaribommanalli	No	Planted Dry Bed	16		
168	Kamalapura	No	Planted Dry Bed	12		
169	Kampli	No	Planted Dry Bed	19		
170	Kottur	No	Planted Dry Bed	13		
171	Kudathini	No	Planted Dry Bed	9		
172	Kurekoppa	No	Planted Dry Bed	11		
173	Kurugodu	No	Planted Dry Bed	11		
174	Mariyammanalli	No	Planted Dry Bed	8		

Water Quality Classification of Polluted River Stretches for the month of March- 2024								
SL NO	STN Code	RIVER NAME	Name Of Monitoring Location	Use Based Class	Dissolved O2 (mg/L)	BOD (mg/L)	Fecal Coliform (MPN/100ml)	Total Coliform (MPN/100ml)
1	1165	Arkavathi	River Arkavathi At D/S Of Kanakapura Town	D	4.0	8.0	14	280
	2778		River Arkavathi At Tippagondanahalli Reservoir	E	3.4	15	330	790
2	2772	Lakshman Tirtha	River Lakshmantirtha At D/S Of Kattemalavadi	NW	NW	NW	NW	NW
	3572		River Lakshmantirtha At Water Supply Intake Point To Hunsur Town	NW	NW	NW	NW	NW
	1196		River Lakshmantirtha At D/S Of Hunsur Town	NW	NW	NW	NW	NW
3	38	Tunga Bhadra	River Tungabhadra At Honnali Bridge	C	7.1	2.0	84	920
	29		River Tungabhadra At Ulenoor	D	7.1	6.0	940	5400
	1896		River Tungabhadra At Confluence Point Of Tunga And Bhadra At Kudli	C	8.9	1.1	110	1300
	2768		River Tungabhadra At D/S Of Harihar Polyfibers	D	6.6	5.0	120	1600
	2770		River Tungabhadra At Harihar Water Supply Intake	D	6.2	3.0	1400	16000
	1029		River Tungabhadra At Haralahalli Bridge	C	7.0	2.6	130	1400
4	1169	Bhadra	River Bhadra At D/S Of Kiocl Road Bridge, Near Holehunnur	C	7.5	2.2	110	1600
	1387		River Bhadra At D/S Of Bhadravathi	D	5.6	2.7	2100	21000
5	1171	Cauvery	River Cauvery At Sri Rangapattanna, D/S Of Road Bdg.	D	5.8	5.0	260	2100
	2774	Cauvery	At Ranganathitu	D	6	4.0	170	1700
	34	Cauvery	River Cauvery At Sathyagalam Bridge	C	6.5	3.0	170	1400
6	2775	Kabini	River Kabini At Bathing Ghat, Nanjanagud	D	5.8	5.0	240	2100
	3577		River Kabini At Water Supply Intake Point To T. Narasipura	D	5.5	6.0	250	2400
7	1895	Kagina	River Kagina D/S Of Sewage Disposal Point	D	7.8	3.0	92000	160000
	2777		River Kagina At Shahabad Bridge	D	8.0	3.0	9200	16000
8	1170	Krishna	River Krishna At D/S Of Devasagar Bdg.	C	7.0	2.8	350	1600
	1181		River Krishna At D/S Of Narayanpura Dam	C	6.3	2.5	920	1600

SL NO	STN Code	RIVER NAME	Name Of Monitoring Location	Use Based Class	Dissolved O2 (mg/L)	BOD (mg/L)	Fecal Coliform (MPN/100ml)	Total Coliform (MPN/100ml)
	1182		River Krishna At U/S Of Ugarkhurd Barrage	C	8.1	2.4	540	1600
	1889	Krishna	River Krishna - Ankali Bridge Along Chikkodi Kagwad Road	C	8.4	2.3	540	1600
	2781		River Krishna At D/S Of Alamatti Dam	C	7.1	2.8	920	1600
	1028		River Krishna At Tintini Bridge	C	7.1	2.6	340	2700
9	1200	Shimsha	River Shimsha At D/S Of Highway Bridge, Yediyur	D	4.5	8.0	26	350
	1166		River Shimsha At D/S Of Bridge, Halagur	NW	NW	NW	NW	NW
	3567		River Shimsha D/S Near Madduar Town	NW	NW	NW	NW	NW
10	1183	Bhima	River Bhima At D/S Of Road Bridge At Gangapur Village	D	7.4	3.0	280000	350000
	1184	Bhima	River Bhima At Ferozabad Village (D/S)	D	7.8	4.0	35000	92000
	1888	Bhima	River Bhima At Confluence Of Jewargi Town Sewage Disposal Point	C	7.4	3.0	2300	3100
	1167	Bhima	River Bhima At D/S Of Bdg. Near Yadgir	C	5.6	3.0	2800	3500
11	3562	Nethravathi	River Netravathi At Thumbe Water Supply Stations To Mangalore City	B	7.0	2.0	22	220
	3563		River Netravathi At U/S Of Uppinangadi Town	B	6.2	3.0	33	430
12	1168	Tunga	River Tunga At D/S Of Shimoga Town	D	7.9	3.0	2700	24000

Water Quality Criteria

Class of water	Designated-Best-Use
“A”	Drinking water source without conventional treatment but after disinfection.
“B”	Out door bathing (organized)
“C”	Drinking Water Source with conventional treatment followed by disinfection.
“D”	Propagation of wild life, fisheries
“E”	Irrigation, Industrial cooling, Controlled Waste disposal

Note: NW-No Water

Section Head Water Test Devision

Annexure-10

Maintaining minimum e-Flow of River

Krishna and Cauvery River basins are the two major river basins in Karnataka which covers 59.48% and 17.99% of the state drainage area respectively. Water released from the reservoirs into the river course fulfils the requirement of water for flora and fauna which is part of the environmental flows. The details of releases from the major reservoirs and river gauge stations under Krishna and Cauvery basins in Karnataka are provided in Annexure-I.

Annexure-I

1. Cauvery Basin

* Volume in TMC

Month	Hemavathy Dam		Harangi		Kabini		Krishnaraja Sagara		Biligundli Gauge Station	
	2021-22	2022-23	2021-22	2022-23	2021-22	2022-23	2021-22	2022-23	2021-22	2022-23
June	0.810	0.520	0.100	0.090	3.850	2.590	5.040	2.850	7.690	16.460
July	2.760	25.040	11.650	20.810	22.020	35.590	8.750	72.470	27.980	106.930
August	4.830	37.130	8.640	11.960	9.900	34.160	7.630	102.830	22.640	223.570
September	2.330	13.930	5.220	2.500	7.830	13.750	21.630	38.030	33.140	105.530
October	1.290	5.860	2.060	1.010	7.370	3.940	10.250	36.980	48.280	120.771
November	0.650	0.530	1.250	0.900	4.470	4.060	19.550	11.190	71.570	40.640
December	0.540	0.576	0.330	0.523	1.870	1.979	7.790	6.347	26.180	25.972
January	0.530	0.680	0.070	0.120	1.130	0.546	3.690	3.336	3.550	7.374
February	0.720	0.791	0.060	0.108	0.990	1.756	2.990	2.747	3.110	4.511
March	2.050	1.534	0.940	0.393	2.860	1.841	2.740	3.212	5.220	4.122
April	0.550	1.969	0.110	0.112	2.380	2.353	2.460	2.266	5.860	3.183
May	0.570	-	0.280	-	2.680	-	3.040	-	22.960	-
June	-	2.332	-	0.110	-	0.900	-	0.896	-	2.833
July	-	0.467	-	8.484	-	8.243	-	2.164	-	8.748
Total	17.630	91.359	30.710	47.12	67.350	111.708	95.560	285.318	278.180	670.644

2. Tungabhadra sub-basin in Krishna Basin

* Volume in TMC

Month	Tunga		Bhadra		Tungabhadra		Madhavaram R.B gauge on TB River	
	2021-22	2022-23	2021-22	2022-23	2021-22	2022-23	2021-22	2022-23
June	16.300	3.210	0.190	0.380	0.300	0.800	11.610	10.270
July	50.060	78.700	0.250	24.220	32.960	126.480	46.390	95.730
August	32.750	50.960	7.360	31.240	38.860	119.380	73.360	156.380
September	20.920		3.410	14.980	17.530	86.250	61.730	
October	12.760		7.670	5.810	33.310	57.210	70.210	
November	8.350		4.500	0.590	32.200	0.630	72.250	
December	3.470		3.100	0.585	3.660	0.140	33.120	
January	1.160		0.670	0.804	2.180	0.805	12.450	
February	-		1.130	0.889	3.250	2.692	17.980	
March	-		0.720	2.605	5.450	1.096	14.120	
April	0.131		0.890	1.172	1.410	-	11.560	
May	1.720	-	2.820	-	0.560	-	9.220	
June	-	0	-	0.595	-	0	-	
July	-	0	-	0.479	-	0	-	
Total	147.621	132.870	32.710	84.349	171.670	395.483	434.000	262.380

3. Krishna Basin (Excluding Tungabhadra sub-basin)

* Volume in TMC

Month	Ghataprabha		Malaprabha		Alamatti		Narayanapura	
	2021-22	2022-23	2021-22	2022-23	2021-22	2022-23	2021-22	2022-23
June	0.100	0.150	0.600	0.500	19.910	1.650	22.740	0.430
July	12.780	0.190	6.990	0.500	288.940	113.870	285.850	117.000
August	5.680	7.130	0.550	2.950	157.420	188.070	143.390	191.160
September	3.100	9.500	2.020	7.500	70.810	134.030	66.120	161.390
October	0.660	0.580	2.670	4.290	33.500	99.100	18.920	124.150
November	0.260	0.290	0.700	0.630	12.440	5.650	0.270	0.990
December	0.230	0.250	0.600	1.780	7.080	24.049	0.280	0.600
January	0.180	0.108	0.640	2.211	17.580	15.787	0.350	1.832
February	0.180	4.882	0.630	0.198	17.820	18.960	0.380	13.888
March	0.240	0.000	0.710	0.195	18.820	8.710	0.480	0.528
April	0.220	2.450	1.000	1.145	2.600	3.976	0.460	0.507
May	0.150	-	0.500	-	5.900	-	0.450	-
June	-	1.289	-	0.520	-	1.722	-	0.480
July	-	0	-	0.486	-	48.206	-	30.289
Total	23.780	26.819	17.610	22.905	652.820	663.78	539.690	643.244

National Mission for Clean Ganga
Format for submission of Monthly Progress Report in the NGT Matter OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020) For the State of Karnataka

Name of the River	Arkavathi River
Polluted river stretch	Tippagondanahalli reservoir to Kanakapura Town
Priority	I
Status as on	31st March 2023

Overall status of the State:

Particulars		CMC Ramanagara	CMC Kanakapura	Total
I.	Total Population: Urban Population & Rural Population separately	95167	54014	149181
II.	Estimated Sewage Generation (MLD):	10.0	4.4	14.4

III. Details of Sewage Treatment Plant:

Particulars	CMC Ramanagara	CMC Kanakapura	Total
Existing no. of STPs and Treatment Capacity (in MLD):	No. of STPs- 1 Treatment Capacity- 7.5 MLD	No. of STPs- 1 Treatment Capacity-6.29 MLD	No. of STPs- 2 Treatment Capacity- 13.79 MLD
Capacity Utilization of existing STPs:	6.0	3.8	9.8
MLD of sewage being treated through Alternate technology:	4.0(Through Septic tank & Soak Pit)	0.6(Through Septic tank & Soak Pit)	4.6(Through Septic tank & Soak Pit)
Gap in Treatment Capacity in MLD:	4.0	0.6	4.6
No. of Operational STPs:	1	1	2
No. of Complying STPs:	0	0	0
No. of Non-complying STPs:	1*	1*	2

a. Details of each existing STP in the State

Name of the Local Body	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
CMC Ramanagara	12°43'24.94"N 77°16'59.69"E	7.5 MLD	6.0 MLD	Operational	Non-complying
CMC Kanakapura	12°32'26.83"N 77°25'4.99"E	6.29 MLD	3.8 MLD	Operational	Non-complying
Total		13.79 MLD	9.8 MLD		

b. Details of under construction STPs in the State

Name of the Local Body	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
CMC Ramanagara	12°43'24.94"N 77°16'59.69"E	Nil	NIL	11 drains carrying sullage effluent is to be connected to wet well before Micro STP. No Work Progress	31.12.2021 DPR has been prepared and submitted to Govt. by the KUWS & DB for the amount of Rs.220.17 Crores for connecting missing links, wet well conditioning and up gradation of STP.
CMC Kanakapura	12°32'26.83"N 77°25'4.99"E	Nil	NIL	05 drains carrying sullage effluent is to be connected to STPs. No Work Progress	31.12.2021 DPR has been prepared and submitted to Govt by the KUWS&DB for the amount of Rs.30.0 Crores for connecting missing links and up gradation of STP by retro fitting using Bio-remediation and Special Aeration system.
Total					

c. Details of proposed STPs in the State

Name of the Local Body	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
CMC Ramanagara	NA	NIL	NIL	NIL
CMC Kanakapura	NA	NIL	NIL	NIL
Total				

IV. Details of Industrial Pollution:

Particulars	CMC Ramanagara	CMC Kanakapura	Arkavathi Polluted River stretch		Total
			Arkavathi River stretch	V Valley catchment area	
No. of industries in the State:	0	0	2 industries (both Red category)	181 industries (Red-30, Orange-52, Green-96, White-03)	183
No. of water polluting industries in the State:	0	0	2 industries (both Red category)	181 industries (Red-30, Orange-52, Green-96, White-03)	183
Quantity of effluent generated from the industries in MLD:	0	0	0.6027 (From 2 industries namely M/s Senapathy Whiteley Limited & Lakshmanan Isola Limited, Acchalu Village, Ramanagar Taluk, both Red categories) in operation. - The sewage of 0.0245 MLD is being disposed to individual septic tank and soak pits. - The trade effluent of about 0.578 MLD is being treated and completely recycled. - Both the industries are complying to consent conditions. - There is no discharge of any type of effluent from these two industries to Arkavathi river. - Barring little sewage from unsewered area of TMC- Bidadi, CMC- Ramanagar and CMC-Kanakapura	Total generation- 8.008MLD (Sewage generation- 3.309MLD, of which 0.1716MLD of sewage is treated in Septic tank & Soak pit, 3.137MLD of sewage is treated in 30 numbers of STPs and 1.079MLD of treated sewage is completely recycled and 2.058MLD is discharged to on land for gardening. Trade effluent- 4.699MLD, About 0.0186 MLD of effluent from 17 industries is being sent to Common ETPs for treatment and disposal of which. About 4.680MLD of trade effluent is treated in 33 numbers of ETPs (including combined ETPs) and 3.321MLD of treated effluent is completely recycled and 1.358MLD is discharged to on land for gardening. There are no common ETPs in the Arkavathi catchment area.	8.6107

			Town. River Arkavathi is polluted mainly because of discharge of untreated effluents and sewage from urban areas upstream of Thippagondana Halli Reservoir of Bangalore Urban District and the untreated effluents and sewage discharged to Vrishabhavathi Valley which originates from Bangalore Urban/BBMP area.		
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****River Arkavathi is polluted mainly because of discharge of untreated effluents and sewage from urban areas upstream of Thippagondana Halli Reservoir of Bangalore Urban District and the untreated effluents and sewage discharged to Vrishabhavathi Valley which originates from Bangalore Urban/BBMP area.**

Quantity of Hazardous Sludge generated from the Industries in TPD:	0	0	2.565 MTPA	2680.152 MTPA	2682.717
Number of industrial units having ETPs:	0	0	2	31	33
Number of industrial units connected to CETP:	0	0	0	14	14
Number and total capacity of ETPs (details of existing/ under construction / proposed)	0	0	No-2 & Capacity-	31	33
Compliance status of the ETPs:	0	0	Complied	Complied	0
Number and total capacity of	0	0	0	0	0

CETPs (details of existing/ under construction / proposed)					
--	--	--	--	--	--

d. Status of compliance and operation of the CETPs

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
CMC Ramanagara	NIL	NIL	NIL	NIL
CMC Kanakapura	NIL	NIL	NIL	NIL
Total				

V. Solid Waste Management:

Particulars	CMC Ramanagara	CMC Kanakapura	Total
• Total number of Urban Local Bodies and their Population	CMC Ramanagara-95167	CMC Kanakapura-54014	2-149181
• Current Municipal Solid Waste Generation	40.0	24.0	64
1. Quantity of MSW generated (TPD)	35.0	20.0	55
2. Quantity of MSW Collected(TPD)	35.0	12.0	47
3. Quantity of MSW segregated & transported (TPD)	15.0	10.0	25
4. Quantity of MSW Processed(TPD)	20.0	7.0	27
5. Quantity of MSW disposed in secured landfill site(TPD)	20.0	7.0	27
6. Gap in Solid Waste Management UTs(TPD)	20	17	37
• Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), biomethanation, MRF etc			

Name of the ULB	Composting		Vermi Composting		Bio-Methanation		Refuse Derived Fuel		W2E		Combustible waste supplied to cement plant
	Waste Processed	Product Produced	Waste Processed	Product Produced	Waste Processed	Product Produced	Waste Processed	Product Produced	Waste Processed	Product Produced	
CMC-Ramanagara	10	2	4.0	0.8	1.0	10 KVA	Nil	Nil	Nil	Nil	Nil

CMC-Kanaka pura	10	2	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	
Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)						Instructions have been given to ULB's to ensure that the existing MSW processing facility is used to its fullest capacity						
No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)						0		0		0		
Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source						31		31		62		
Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)						3 Vermi composting units under construction		1 under construction(will be completed by 31.03.2021)		4		
No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills						NIL		NIL		NIL		
No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers						NIL		NIL		NIL		
No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers						11		5		17		

Status of ULB wise Management of Solid Waste

Name of the ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
CMC Ramanagara	40	15	18.0	18.0	SWM DPR prepared under swaccha Bharath Mission is approved and action is being taken up as per DPR.
CMC Kanakapura	24	10	24	10	Under construction
Total	64	25	42	28	

VI. Bio-medical Waste Management:

Particulars	CMC Ramanagara	CMC Kanakapura	Total
Total Bio-medical generation:	0.2043TPD	0.00684 TPD	0.21114 TPD
No. of Hospitals and Health Care Facilities:	454	152	606
Status of Treatment Facility/ CBMWTF:	complying	complying	-

VII. Hazardous Waste Management:

Particulars	CMC Ramanagara	CMC Kanakapura	Arkavathi polluted river stretch
Total Hazardous Waste generation:	0	0	Land Fillable -1576.89 MTPA Incinerable – 1018.86 MTPA Recyclable – 1298.4 MTPA Utilizable - 138.51 MTPA Total- 4032.66 MTPA
No. of Industries generating Hazardous waste	0	0	92.0
Treatment Capacity of all TSDFs	NA	NA	
Avg. Quantity of Hazardous waste reaching the TSDFs and Treated	NA	NA	
Details of on-going or proposed TSDF	NA	NA	

VIII. Plastic Waste Management:

Particulars	CMC Ramanagara	CMC Kanakapura	Total
Total Plastic Waste generation:	2.0TPD	1.25 TPD	3.25 TPD
Treatment/ Measures adopted for reduction or management of plastic waste:	NA	NA	NA

Particulars	CMC Ramanagara	CMC Kanakapura	Total
IX. Details of Alternate Treatment Technology being adopted by the State/UT			
X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment:	11Drains identified and monitored periodically	5 Drains identified and monitored periodically	16 Drains identified and monitored periodically
XI. Details of Nodal Officer appointed by Chief Secretary in the State/UT:	-		
XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:	NA		
XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;	Annexure-1		
XIV. Ground water regulation:	As per the details submitted by Sr. Geologist, District Ground Water Authority, Ramanagara District for the month of August 2020, as per the circular KGA/NOC/2019-20 dated 29-05-2019 with reference to Karnataka Act 2011 U/s 17 (K), so as to fulfill the objectives of the Act, in notified taluks and non notified taluks for NOC for the purpose of industrial, commercial, entertainment, infrastructure, mining and others is made compulsory. This subject was discussed in District Ground Water Authority meeting. In this regard, as per the directions, a notice has been issued to obtain NOC for extracting groundwater from Karnataka Ground Water Authority / District Ground Water Authority. <u>Status of Ground Water Resource Assessment in Annexure-2</u>		
XV. Good irrigation practices being adopted by the State:	The Dept. of Agriculture and Horticulture have submitted action plan for implementation of following measures. - Farmers are made aware to use water optimally. - By adopting Micro irrigation system(Sprinkler And Drip) in agricultural crops .		
XVI. Rain Water Harvesting:	As per the details submitted by Sr. Geologist, District Ground Water Authority, Ramanagara for the month of August 2020, to improve the ground water situation rain water harvesting structure and some of the other artificial recharge structures are recommended to be constructed in their premises while giving the permission to extract ground water from the authority.		
XVII. Demarcation of Floodplain and removal of illegal encroachments:	The tahasildars of the concerned taluk have furnished replies that they are in the process of obtaining the details on encroachment of lands of flood plain and upon receipt of the same they would initiate further needful action		

XVIII. Maintaining minimum e-flow of river:	The Cauvery Neeravari Nigam Ltd., is requested to submit the action plan as per MoEF & CC norms during monsoon seasons and same is not submitted
XIX. Plantation activities along the rivers:	The Forest Department has submitted action plan for plantation of saplings on the banks of polluted river stretch of Arkavathi which specifies the plantation of saplings and creation of eco park etc for that they have ear marked Rs.13.49 crores. This will be completed by them within time frame of March 2024 , their letter reads.
XX. Development of biodiversity park:	
XXI. Reuse of Treated Water:	Treated water is being utilized for onland for Gardening/Irrigation/Recycled for process/Toilet Flushing
XXII. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:	NA
XXIII. Status of Preparation of Action Plan by the 13 Coastal States:	NA
XXIV. Regulation of Mining Activities in the State/UT:	Nil
XXV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring	Nil
XXVI. Overall progress of the month: Please provide overall progress achieved in terms of all the above points compared to previous month.	

Annexure-1

XIII Status of Water Quality Assessment of polluted rivers in Annexure-1

Sl. No.	Details of Water Quality Monitoring locations as per NWMP	Year	DO(mg/l)	BOD(mg/l)	Fecal Coliform (MPN/100 ml)	Total Coliform (MPN/100 ml)
1	Thippagondanahalli reservoir	March-2024	3.4	15	330	790
2	Downstream of Kanakapura	March-2024	4.0	8.0	14	280

XIV Status of Ground Water Resource Assessment in Annexure-1

Sl.No	Village	Well Type	Sampling Date	Fe	EC	pH	NO3	Cl	F	TH
1	Kailancha Village, Ramanagara Tq & District	Dug Well	11/10/2020	0.03	1230	8.29	14	210	0.55	304
2	Ramanagara Town, Ramanagara District	Bore Well	11/10/2020	0.06	1370	8.14	66	176	1.03	328
3	Harohalli, Village Kanakapura Taluk	Dug Well	--	--	--	--	--	--	--	--
4	Kanakapura Town, Ramanagara District	Bore Well	--	--	--	--	--	--	--	--

Sd/-
Environment Officer
Regional Office-Ramanagara

National Mission for Clean Ganga

Format for submission of Monthly Progress Report in the NGT Matter OA

No. 673 of 2018 (in compliance to NGT order dated 24.09.2020)

For the State of Karnataka

Name of the River : Bhadra River
Polluted river stretch : 10Km
Priority : IV
Status as on : 31.03.2024

Overall status of the State:

I. Total Population: Urban Population & Rural Population separately:

CMC Bhadravathi Population is 151102. (As on 2011 census)

II. Estimated Sewage Generation (MLD): 20 MLD

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD):

Existing 3 no of STP's of 5.83 MLD, WSP Technology at Jatpat Nagar, Bhadravathi, 7.2 MLD, WSP Technology at Sy.no.77/P,75/P,75/1P,741/P,64/P,58/1,Seegebagi, CN Road, Bhadravathi, Shivamogga Dist & 1 MLD STP is 1 MLD STP located at Ward no 22, Ujjanipura, Bhadravathi are under operation.

Capacity Utilization of existing STPs: 0.05 MLD

- MLD of sewage being treated through Alternate technology: --
- Gap in Treatment Capacity in MLD:17.95
- No. of Operational STPs: 3
- No. of Complying STPs : 2
- No. of Non-complying STPs: 1

Details of each existing STP in the State

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
1	City Municipal Council, Bhadravathi Jatpat Nagara, Bhadravathi, Shivamogga Dist	5.83 MLD	1MLD	Working	Complied
2	City Municipal Council, Bhadravathi Sy.no.77/P,75/P,75/1P,74 1/P,64/P,58/1, Seegebagi, CN Road,Bhadravathi, Shivamogga Dist	7.2MLD	2 MLD	Not Working	Not Complied
3	City Municipal Council, Bhadravathi,Sy.No.13, WardNo.22,Ujjinipura, Bhadravathi, Shivamogga	1MLD	0.05 MLD	Working	Complied

Details of under construction STPs in the State

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
-	-	-	-	-	-

Details of proposed STPs in the State

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
-	-	-	-	-

IV. Details of Industrial Pollution:

- No. of industries in the State:

There are 3 large industries are located in the bank of the Bhadra River.

1. MPM is not working since 7 years.
2. VISL is working intermittently. BF and SMS unit are not working since 6 years.
3. Bhadra Packaids is recycling waste water and comply.

- No. of water polluting industries in the State: 3

- Quantity of effluent generated from the industries in MLD: -

1. The Mysore Paper Mills Ltd, Bhadravathi, Shivamogga Dist. The effluent generation was 29 MLD. MPM is not working since 6 years.
2. Steel Authority Of India Ltd, Visveswarayya Iron and Steel Ltd., Bhadravathi, Shivamogga. The effluent generation was 1520 KLD. Blast Furnance and SMS units are not working. Rerolling Mill and Forging units operating intermittently.
3. Bhadra Packaids Pvt. Ltd, Bommenahalli, Barandur, Badravahti Tq, Shivamogga Dist. The effluent generation is 340 KLD. Recycled back into the process & in washing section after treating in ETP.

- Quantity of Hazardous Sludge generated from the Industries in TPD: -
- Number of industrial units having ETPs: 3
- Number of industrial units connected to CETP: Nil
- Number and total capacity of ETPs (details of existing/ under construction / proposed) : 87400 KLD
- Compliance status of the ETPs: Complied
- Number and total capacity of CETPs (details of existing/ under construction / proposed) : --

Not Applicable (Shivamogga Dist is not having any CETP.

Status of compliance and operation of the CETPs

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
	Nil			

V. Solid Waste Management:

- Total number of Urban Local Bodies and their Population:

1 - City Municipal Council, Bhadravathi. Population is 151102

Current Municipal Solid Waste Generation is about 53.8 TPD.

- Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), biometanation, MRF etc :

City Municipal Council, Bhadravathi is having MSW sit processing & disposal at Hiriuru Village, Bhadravathi Tq, Shivamogga Dist.

- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%) : --
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction) : NIL
- Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source : The CMC Bhadravathi is Collecting Solid waste from door to door. The CMC has reported that they have carried out segregation in all 35 wards. The wet waste is composted in the existing solid waste disposal site, the dry recyclable waste are segregated and sent to recyclers.
- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)-**Nil**

- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.: --
- No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers : --
- No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers:---

Status of ULB wise Management of Solid Waste

ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
1	53.8 TPD	45 TPD	windrow platform, composting, Leachate treatment plant provided	45 TPD	Plant & Machineries installation work is under completed. Not in operation.

VI. Bio-medical Waste Management:

- Total Bio-medical generation : 290Kg/day
- No. of Hospitals and Health Care Facilities : There are 121 No of Health Care facilities in the Local body located on the Bhadra river stretch including 32 No bedded Health Care facility, 88 No Non bedded Health Care facilities and 01 Veterinary Hospital.
- Status of Treatment Facility/ CBMWTF: The Shivamogga Dist is having one CBMWTF at i.e.M/s.Shushrutha Biomedical Waste Management Society®, Plot.No.31/C Machenahalli,Bhadravathi Tq & Shivamogga Dist.
The unit has obtained Consent and Authorization from the Board for the period up to 30.06.2025.

VII. Hazardous Waste Management:

- No. of Industries generating Hazardous waste : 6
- Treatment Capacity of all TSDFs:

Not Applicable (Shivamogga Dist is not having TSDF Site)

- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated: Not Applicable
- Details of on-going or proposed TSDF: Not Applicable

VIII. Plastic Waste Management:

- Total Plastic Waste generation: 1095 TPA
- Treatment/ Measures adopted for reduction or management of plastic waste:

The City Municipal Council, Bhadravathi has prepared By laws for Plastic Waste Management Rule. Plastic raids on Commercial activities are conducted from time to time from City Municipal Council, Bhadravathi and KSPCB.

IX. Details of Alternate Treatment Technology being adopted by the State/UT --

X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment:--This Office inspected the CMC, Bhadravathi and 3 STP on dated 24.08.2023 and sample was collected and submitted to Central lab on dated 25.08.2023. Results are yet to be received .

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

XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:--

XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; March-2024 month analysis report enclosed as Annexure-1

XIV. Good irrigation practices being adopted by the State:

Adaption of micro irrigation practices such as drip/sprinkler.

XV. Rain Water Harvesting:

Shivamogga Urban Development Authority (SUDA) is insisting Residential Buildings/Commercial Buildings to adopt Rain Water Harvesting in its approval.

XVI. Demarcation of Floodplain and removal of illegal encroachments:

Flood plain zone encroachment details are sought from the Revenue Department.

XVII. Maintaining minimum e-flow of river:

Karnataka Water Resources Department is the concerned Department and it is maintaining the flow as per the Norms.

XVIII. Plantation activities along the rivers:

The Deputy Commissioner has informed the Forest Department Officers to take suitable action for plantation in flood plain zone.

XIX. Development of biodiversity park:

The Deputy Commissioner instructed the Irrigation Department Officials to verify the encroachment if any on the river banks and informed to take suitable action on this issue along with the concerned Department.

XX. Reuse of Treated Water: --

XXI. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards: --

XXII. Status of Preparation of Action Plan by the 13 Coastal States: Not Applicable

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

Mines & Geology Dept is monitoring Sand Mining activity

XXIV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring:--

XXV. Overall progress of the month:--

XXVI. Please provide overall progress achieved in terms of all the above points compared to previous month. Regarding the non-compliances and the discharge of raw sewage into the Bhadra River, this Office issued a "Show Cause" notice to CMC, Bhadravathi. A letter was also provided to the Board Office for approval to file a criminal case. In the month of August, all 3 STPs at CMC, Bhadravathi,

were examined. Conducted awareness programmes and Bhadra river bank cleaning work along with CMC, Bhadravathi on October month .

The Meeting was conducted with concerned department with the chairmanship of the DC, Shivamogga on dated 15.11.2023.

Sd/-

Environmental Officer,
KSPCB, Shivamogga

National Mission for Clean Ganga

Format for submission of Monthly Progress Report in the NGT Matter OA

No. 673 of 2018 (in compliance to NGT order dated 24.09.2020)

For the State of Karnataka

Name of the River : Tunga River
Polluted river stretch : 10Km
Priority : V
Status as on : 31.03.2024

Overall status of the State:

I. Total Population: Urban Population & Rural Population separately:

Shivamogga City Corporation Population is 322650 (As on 2011 census)

II. Estimated Sewage Generation (MLD): 47.79MLD

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD):

Existing 2 no of capacity STP of 35.58 MLD STP at Thyvarechatnhalli, & 5.13MLD at Purle Village, Shivamogga Tq & Dist is under operation.

- Capacity Utilization of existing STPs:13.52MLD
- MLD of sewage being treated through Alternate technology: --
- Gap in Treatment Capacity in MLD:34.27
- No. of Operational STPs: 2
- No. of Complying STPs:2
- No. of Non-complying STPs: Nil

Details of each existing STP in the State

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
1	Sy.no.27/1,28P,32,33, 34,35 & 36, Thyvarechatnhalli,	35.58 MLD	14MLD	Working	Complied

	Shivamogga Tq & Dist				
2	City Corporation, Shivamogga, Sy.No.33/ P1, Purle village, Shivamogga Tq & Dist	5.13MLD	0.52 MLD	Working	Complied

Details of under construction STPs in the State

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
1	Ghandi Park, Shivamogga City, Shivamogga	0.05MLD	100%	-	Work Completed. But not commissioned

Details of proposed STPs in the State

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
-	-	-	-	-

IV. Details of Industrial Pollution:

- No. of industries in the State:

There are no large industries located on the bank of the Tunga River.

- No. of water polluting industries in the State: -
- Quantity of effluent generated from the industries in MLD: -
- Quantity of Hazardous Sludge generated from the Industries in TPD: -
- Number of industrial units having ETPs: -
- Number of industrial units connected to CETP: Nil
- Number and total capacity of ETPs (details of existing/ under construction / proposed)
: -
- Compliance status of the ETPs: -

- Number and total capacity of CETPs (details of existing/ under construction / proposed) :Not Applicable (Shivamogga Dist. is not having any CETP).
- Status of compliance and operation of the CETPs

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
	Nil			

V. **Solid Waste Management:**

- Total number of Urban Local Bodies and their Population:
1 - City Corporation, Shivamogga. Population is 322650
- Current Municipal Solid Waste Generation is about **170TPD**.
- Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), bimethanation, MRF etc : City Corporation, Shivamogga is having MSW site at Sy No.198, 202 to 206, 208 to 210, Anupinakatte Village, Shivamogga. Installed capacity is 75TPD (Considering 8 hr Shift) and they operate the unit in two shifts (6.00AM to 10.00PM) to process the MSW.
- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%) : --
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction) : NIL
- Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source : There are 35 wards in Shivamogga Corporation. All 35 wards are covered under Door to Door Collection. All 35 Wards are doing source segregation.

- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)-**Nil**
- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.: --
- No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers : --
- No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers: 7 drains.

Smart City Shivamogga has taken up 7 works (Drains) to divert during summer season. (I & D Work).

Additionally, KUWS&DB, Shivamogga, has taken on I and D (Interception & Diversion) works, with 75% of the construction finished and work scheduled to be finished in December 2023.

Status of ULB wise Management of Solid Waste

ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
1	170TPD	150 TPD (2 Shifts)	windrow platform, composting ,leachate treatment is provided.	75TPD(Considering 8 hr Shift) and they operate the unit in two shifts to process the MSW	Nil

VI. Bio-medical Waste Management:

- Total Bio-medical generation : 1174 Kg/day
- No. of Hospitals and Health Care Facilities: Total No of Hospitals and Health Care Facilities is 431 including 90 No bedded HCF,336 No non bedded HCF and 5 Veterinary Hospital.
- Status of Treatment Facility/ CBMWTF : The Shivamogga Dist is having one CBMWTF i.e.M/s.Shushrutha Biomedical Waste Management Society®, Plot.No.31/C, Machenahalli Indl Area, Bhadravathi Tq,Shivamogga Dist. The unit has obtained Consent and Authorization from the Board for the

period up to 30.06.2025.

VII. Hazardous Waste Management:

- No. of Industries generating Hazardous waste : 38
- Treatment Capacity of all TSDFs:
Not Applicable (Shivamogga Dist. is not having TSDF)
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated: Not Applicable
- Details of on-going or proposed TSDF: Not Applicable

VIII. Plastic Waste Management:

- Total Plastic Waste generation: 4318 TPA
- Treatment/ Measures adopted for reduction or management of plastic waste:

The City Corporation, Shivamogga has prepared By laws for Plastic Waste Management Rule. Plastic raids on Commercial activities are conducted from time to time from City Corporation Shivamogga and KSPCB.

IX. Details of Alternate Treatment Technology being adopted by the State/UT --

X. Identification of polluting sources including drains contributing to river pollution and

action as per NGT order on insitu treatment:--This Office has indentified 7 points where drains contributing the river pollution and legal sample was collected on 26.06.2023 the analysis reports are herewith attached for kind perusal and the locations are as follows:

1. Harakere Left Bank of Tunga river Shivamogga
2. Uragadur (Right Bank of Tunga River), Shivamogga :
3. Near Purle , Right Bank of Tunga River), Shivamogga
4. Holebenavalli (Right bank) Shivamogga,
5. Goravinakatte (Left bank)Kudli Suguru Shivamogga,
6. SPM Road, New Mandli, Malavagoppa south Shivamogga Dist,

7. Thevarchatnahalli Shivamogga

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

XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:--

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

This Office is collecting the River Water Samples every month at 2 Locations.

March -2024 month analysis report enclosed as Annexure-1.

XIV. Ground water regulation:

District Ground Water Office has reported that Shivamogga Dist lies under safe zone (There are no over exploited Taluk)

XV. Good irrigation practices being adopted by the State:

Adoption of micro irrigation practices such as drip/sprinkler.

XVI. Rain Water Harvesting:

Shivamogga Urban Development Authority (SUDA) is insisting residential Buildings/Commercial Buildings to adopt Rain Water Harvesting in its approval.

XVII. Demarcation of Floodplain and removal of illegal encroachments:

Flood plain zone encroachment details are sought from the Revenue Department.

XVIII. Maintaining minimum e-flow of river:

Karnataka Water Resources Department is the concerned Department and it is maintaining the flow as per the Norms.

XIX. Plantation activities along the rivers:

The Deputy Commissioner has informed the Forest Department Officers to take suitable action for plantation in flood plain zone.

XX. Development of biodiversity park:

The Deputy Commissioner instructed the Irrigation Department Officials to verify the encroachment if any on the river banks and informed to take suitable action on this issue along with the concerned Department

XXI. Reuse of Treated Water: --

XXII. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards: --

XXIII. Status of Preparation of Action Plan by the 13 Coastal States: Not Applicable

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

Mines & Geology Dept is monitoring Sand Mining activity

XXV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring:---

XXVI. Overall progress of the month:---This Office issued Show cause notice to City Corporation ,Shivamogga with respect to the non-compliances and discharging of untreated sewage into the Tunga river and letter also furnished to Board Office for calling CC, Shivamogga for personal hearing at Board Office.

All 3 STPs in City Corporation ,Shivamogga were inspected in the month of June and with respect to the non-compliances recommended to Board to call all ULB authorities for personal hearing at Board Office. Conducted awareness programmes and Tunga river bank cleaning work along with CC, Shivamogga on December -2023 month.

The Meeting was conducted with concerned department with the chairmanship of the DC, Shivamogga on dated 15.11.2023.

Sd/-

Environmental Officer,
KSPCB, Shivamogga

KARNATAKA STATE POLLUTION CONTROL BOARD, CENTRAL ENVIRONMENTAL LABORATORY-2, DAVANGERE.
NWMP RIVER WATER ANALYSIS REPORT FOR THE MONTH OF MARCH-2024

FIELD OBSERVATIONS :

Sl No.	Sample Nos.	W-1504	W-1505	W-1506	W-1507	W-1508	W-1509	W-1510
	Station code	2765	4105	1387	1169	1896	4106	1168
I.	Date & Time of collection	11.03.2024	11.03.2024	11.03.2024	11.03.2024	11.03.2024	11.03.2024	11.03.2024
II	Weather	12.50PM	12.20PM	11.50PM	11.10AM	10.30PM	4.20PM	3.30PM
III	Approximate depth	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny
IV	Colour & Intensity	>100cm	>100cm	>100cm	>100cm	>100cm	>100cm	>100cm
V	Odour	Clear	Clear	Clear	Clear	Clear	Clear	Clear
VI	Visible effluent discharge	None	None	None	None	None	None	None
VII	Human activities around the station.	None	City sewage	None	Village sewage	None	None	None
VIII	Station details.	U/s of MPM, Bhadra River, Kamataka	D/s of MPM, Bhadra River, Kamataka	D/s of Bhadravathi, Bhadra River, Kamataka	Holehonnur Bridge, Bhadra River, Kamataka	Kudli Confluence point, TB River, Kamataka	U/s of Shivamogga, Tunga river, Kamataka	D/s of Shivamogga, Tunga river, Kamataka

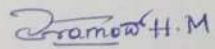
CORE PARAMETERS:

Sl.No.	Parameter	Unit	W-1504	W-1505	W-1506	W-1507	W-1508	W-1509	W-1510
1	Temperature	° C	27	26	26	26	26	27	26
2	DO	mg/L	5.3	5.9	5.6	7.5	8.9	8.5	7.9
3	pH	-	7.90	7.95	7.9	7.8	8.0	7.8	7.9
4	Conductivity	µS/cm	154	162	168	145	138	158	162
5	BOD	mg/L	2.2	2.4	2.7	2.2	1.1	2.0	3.0
6	Nitrate as N	mg/L	0.26	0.28	0.36	0.62	0.42	0.72	0.30
7	Total Coli form	MPN/100ml	1300	1700	21000	1600	1300	1700	24000
8	Faecal Coli form	MPN/100ml	140	170	2100	110	110	130	2700

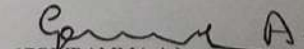
GENERAL PARAMETERS:

SL.NO	PARAMETER	UNIT	W-1504	W-1505	W-1506	W-1507	W-1508	W-1509	W-1510
1	Turbidity	NTU	2	2	2	2	5	2	2
2	P-Alkalinity as CaCO ₃	mg/L	NIL	NIL	NIL	NIL	NIL	NIL	NIL
3	Total Alkalinity as CaCO ₃	mg/L	58	52	52	60	62	66	54
4	Chloride	mg/L	14	14	28	14	14	22	20
5	COD	mg/L	16	24	28	30	12	18	26
6	TKN	mg/L	0.42	0.56	0.62	1.22	0.80	1.20	1.60
7	Ammonia as N	mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
8	Hardness as CaCO ₃	mg/L	58	50	42	56	64	66	64
9	Calcium as CaCO ₃	mg/L	28	26	26	30	34	36	34
11	Magnesium as CaCO ₃	mg/L	30	24	16	26	30	30	30
11	Calcium as Ca++	mg/L	11	10	10	12	14	14	14
12	Magnesium as Mg++	mg/L	7.29	5.83	3.89	6.32	7.29	7.29	7.29
13	Sulphate	mg/L	2.80	1.20	3.80	1.60	2.80	2.80	2.80
14	Sodium	mg/L	23.55	18.48	8.47	9.14	8.95	11.37	11.63
15	Total Dissolved Solids	mg/L	104	110	118	98	96	110	112
16	Total Fixed Solids	mg/L	98	100	106	90	90	98	96
17	Total Suspended Solids	mg/L	6	4	6	8	10	4	6
18	Phosphate as PO ₄	mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
19	Boron	mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
20	Potassium	mg/L	3.80	2.77	1.72	1.87	1.38	2.10	2.21
21	Fluoride	mg/L	0.16	0.15	0.15	0.18	0.19	0.37	0.34
22	Percent sodium	-	42.86	29.41	25.39	22.83	26.46	27.45	42.86
23	SAR	-	1.34	1.14	0.57	0.53	0.49	0.61	0.63
Class/category			C	C	D	C	C	C	D
Water Quality Index			S	S	US	S	S	S	US

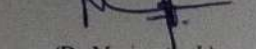
Analysed by


(PRAMOD M.H.)
Scientific Assistant
Microbiology Section

Analysed by


(GOWRAMMA A.)
Scientific Assistant
Water Section

Verified by


(Dr. Manjunatha L.)
Deputy Scientific Officer
CEL-2, KSPCB, Davangere

National Mission for Clean Ganga

Format for submission of Monthly Progress Report in the NGT Matter

OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020)

For the State of Karnataka

Name of the River : BHIMA RIVER
Polluted river stretch : Ghanagapur to Yadgir - 160km
Priority : V
Status as on : 05.04.2024
Overall status of the State:

I. Total Population: Urban Population & Rural Population separately : 36,400

II. Estimated Sewage Generation (MLD): 3.68MLD

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD): **Nil**
- Capacity Utilization of existing STPs: **Nil**
- MLD of sewage being treated through Alternate technology: **Nil**
- Gap in Treatment Capacity in MLD: **3.68MLD**
- No. of Operational STPs: **Nil**
- No. of Complying STPs: **Nil**
- No. of Non-complying STPs: **Nil**

Details of each existing STP in the State

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
-	-	-	-	-	-

Details of under construction STPs in the State

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
1	TMC, Jewargi at Sy. No. 21/A/A(21/4/2)	5.83	Started the civil work	Yet to connect the UGD to the newly proposed STP	01 year

Details of proposed STPs in the State

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1	Jewargi	5.83	-	-

IV. Details of Industrial Pollution:

- No. of industries in the State: **Nil** (There are no industry located in the river stretch)
- No. of water polluting industries in the State: **Nil**
- Quantity of effluent generated from the industries in MLD: **Nil**
- Quantity of Hazardous Sludge generated from the Industries in TPD: **Nil**
- Number of industrial units having ETPs: **Nil**
- Number of industrial units connected to CETP: **Nil**
- Number and total capacity of ETPs (details of existing/ under construction / proposed): **Nil**
- Compliance status of the ETPs: **Nil**
- Number and total capacity of CETPs (details of existing/ under construction / proposed) : **Nil**
- Status of compliance and operation of the CETPs

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
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-	-	-	-	-
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V. **Solid Waste Management:**

- Total number of Urban Local Bodies and their Population : **Town Municipal Council, Jewargi having population of 25,686**
- Current Municipal Solid Waste Generation: **10MT/day, Dry waste – 4MT/day and Wet waste – 6MT/day.**
- Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), biomethanation, MRF etc: **Dry waste from the TMC, Jewargi is sent to Cement industry for co-processing in cement kiln and Wet waste is converted into compost by local body in the designated/authorised solid waste processing site.**
- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%): **NIL**
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction): **Proposed**
- Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source : **23**
- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology) : **Dry waste from the TMC, Jewargi is sent to Cement industry for co-processing in cement kiln.**
- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills-**NIL**
- No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers-**NIL**

- No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers : **Drains-5**, no. of drains having floating racks/screens - **Nil**

Status of ULB wise Management of Solid Waste

ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
1	10MT/day	10MT/day	1	10MT/day	-

VI. Bio-medical Waste Management:

- Total Bio-medical generation: **32.5 Kg/day**
- No. of Hospitals and Health Care Facilities: **32 Bedded HCFs and 72 Non Bedded HCFs**
- Status of Treatment Facility/ CBMWTF: **The CBWTFs has provided online continuous monitoring system to incinerator for monitoring of emission. CBWTF has already upgraded their incinerator to meet revised emissions standards as per MOEF Notification 2016.**

VII. Hazardous Waste Management:

- Total Hazardous Waste generation: **Nil**
- No. of Industries generating Hazardous waste: **Nil**
- Treatment Capacity of all TSDFs: **Nil**
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated: **Nil**
- Details of on-going or proposed TSDF: **Nil**

VIII. Plastic Waste Management:

- Total Plastic Waste generation: **1.1TPD**

Treatment/ Measures adopted for reduction or management of plastic waste: **Segregated Plastic waste from the TMC Jewargi is sent to Cement industry for co-processing in cement kiln. Draft Policy and Plan for plastic waste management has been prepared by the ULBD and accordingly plastic waste shall be collected from un-organized sectors and from house hold/commercial sectors. Plastic raids (Sales & Shops) were conducted from time to time by Local Body.**

- IX. Details of Alternate Treatment Technology being adopted by the State/UT : **Nil**
- X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment: **Identified**
- XI. Details of Nodal Officer appointed by Chief Secretary in the State/UT: ---
- XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT: ----
- XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river.
- XIV. Ground water regulation: ---
- XV. Good irrigation practices being adopted by the State: ---
- XVI. Rain Water Harvesting: ----
- XVII. Demarcation of Floodplain and removal of illegal encroachments: ----
- XVIII. Maintaining minimum e-flow of river: ----
- XIX. Plantation activities along the rivers: ---
- XX. Development of biodiversity park: ---
- XXI. Reuse of Treated Water: ---
- XXII. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards: ---
- XXIII. Status of Preparation of Action Plan by the 13 Coastal States: **NA**
- XXIV. Regulation of Mining Activities in the State/UT: ---

XXV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring: **Nil**

XXVI. Overall progress of the month: ---

Please provide overall progress achieved in terms of all the above points compared to previous month.

National Mission for Clean Ganga

Format for submission of Monthly Progress Report in the NGT Matter

OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020)

For the State of Karnataka

Name of the River : KAGINA RIVER
Polluted river stretch : Shahabad to Hongunta -10KM
Priority : V
Status as on : 05.04.2024

Overall status of the State:

I. Total Population: Urban Population & Rural Population separately : **47,582**

II. Estimated Sewage Generation (MLD): **7.06MLD**

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD): **Nil**
- Capacity Utilization of existing STPs: **Nil**
- MLD of sewage being treated through Alternate technology: **Nil**
- Gap in Treatment Capacity in MLD: **7.06MLD**
- No. of Operational STPs: **Nil**
- No. of Complying STPs: **Nil**
- No. of Non-complying STPs: **Nil**

Details of each existing STP in the State

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
-	-	-	-	-	-

Details of under construction STPs in the State

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
-	-	-	-	-	-

Details of proposed STPs in the State

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1	Shahabad	13.5	-	-

IV. Details of Industrial Pollution:

- No. of industries in the State: **Nil** (There are no industry located in the river stretch)
- No. of water polluting industries in the State: **Nil**
- Quantity of effluent generated from the industries in MLD: **Nil**
- Quantity of Hazardous Sludge generated from the Industries in TPD: **Nil**
- Number of industrial units having ETPs: **Nil**
- Number of industrial units connected to CETP: **Nil**
- Number and total capacity of ETPs (details of existing/ under construction / proposed): **Nil**
- Compliance status of the ETPs: **Nil**
- Number and total capacity of CETPs (details of existing/ under construction / proposed) : **Nil**
- Status of compliance and operation of the CETPs

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
-	-	-	-	-

V. **Solid Waste Management:**

- Total number of Urban Local Bodies and their Population : **City Municipal Council Shahabad having population of 47,582**
- Current Municipal Solid Waste Generation: **17.44MT/day, Dry waste – 11MT/day and Wet waste – 5.44MT/day.**
- Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), bimethanation, MRF etc: **Dry waste from the CMC Shahabad is sent to Cement industry for co-processing in cement kiln and Wet waste is converted into composted by local body in the designated/authorised solid waste processing site.**
- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%): **Nil**
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction): **Proposed**
- Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source : **27**
- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology) : **Dry waste from the CMC Shahabad is sent to Cement industry for co-processing in cement kiln.**
- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.: **Nil**
- No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers : **Nil**
- No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers : **1**

Status of ULB wise Management of Solid Waste

ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
1	17.44MT/day	17.44MT/day	1	17.44MT/day	-

VI. Bio-medical Waste Management:

- Total Bio-medical generation: **12 Kg/day**
- No. of Hospitals and Health Care Facilities: **4 Bedded HCFs and 20 Non Bedded HCFs**
- Status of Treatment Facility/ CBMWTF: **The CBWTFs has provided online continuous monitoring system to incinerator for monitoring of emission. CBWTF has already upgraded their incinerator to meet revised emissions standards as per MOEF Notification 2016.**

VII. Hazardous Waste Management:

- Total Hazardous Waste generation: **Nil**
- No. of Industries generating Hazardous waste: **Nil**
- Treatment Capacity of all TSDFs: **Nil**
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated: **Nil**
- Details of on-going or proposed TSDF: **Nil**

VIII. Plastic Waste Management:

- Total Plastic Waste generation: **2TPD**

Treatment/ Measures adopted for reduction or management of plastic waste:
Segregated Plastic waste from the CMC Shahabad is sent to Cement industry for

co-processing in cement kiln. Draft Policy and Plan for plastic waste management has been prepared by the ULBD and accordingly plastic waste shall be collected from un-organized sectors and from house hold/commercial sectors. Plastic raids (Sales & Shops) were conducted from time to time by Local Body.

- IX. Details of Alternate Treatment Technology being adopted by the State/UT : **Nil**
- X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment: **Identified**
- XI. Details of Nodal Officer appointed by Chief Secretary in the State/UT: ---
- XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT: ----
- XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river.
- XIV. Ground water regulation: ---
- XV. Good irrigation practices being adopted by the State: ---
- XVI. Rain Water Harvesting: ----
- XVII. Demarcation of Floodplain and removal of illegal encroachments: ----
- XVIII. Maintaining minimum e-flow of river: ----
- XIX. Plantation activities along the rivers: ---
- XX. Development of biodiversity park: ---
- XXI. Reuse of Treated Water: ---
- XXII. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards: ---
- XXIII. Status of Preparation of Action Plan by the 13 Coastal States: **NA**
- XXIV. Regulation of Mining Activities in the State/UT: ---
- XXV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring: **Nil**

XXVI. Overall progress of the month: ---

Please provide overall progress achieved in terms of all the above points compared to previous month.



ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ, ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ
REGIONAL OFFICE, KARNATAKA STATE POLLUTION CONTROL BOARD
 ಪ್ಲಾಟ್ ನಂ. 12/2, ಸರ್ವೆ ನಂ. 19/ಪಿ, ಮನ್ಸಫದಾರ್ ಲೇಔಟ್, ಎಂ.ಜಿ. ರಸ್ತೆ, ಸಂತ್ರಾಸ್ವಡಿ, ಕಲಬುರಗಿ-585 101
Plot No. 12/2, Sy.No.19/P, Mansafdar Layout, M.G. Road, Santraswadi, Kalaburagi-585 101
 E-mail: gubidagub@kspcb.karnataka.gov.in Website: http://kspcb.karnataka.gov.in Phone: 08472-256246

REGIONAL LABORATORY
ANALYSIS REPORT

1	Station code	1183				Date : 26.02.2024	
2	Date & time of Sample taken	Date	05.02.2024	Time	10:45 AM	Page 1 of 2	
3	Name of Monitoring Station	Bhima at D's of Bridge Ganagapur				SAMPLE COLLECTED BY	
4	Temperature	28				EO:Kalaburagi	
5	Visible Effluent Discharge in Proximity	None	Moderate	High	Other	Completed by	Shivakumar C S
6	Weather	Cloudy	Clear	Windy	Raining	Verified by	Senior Scientific Officer
7	Depth of water body (meter)	< 50 cm	50-100cm	>100 cm	Flood	AGENCY	KARNATAKA
8	Human Activities	Cattle Wading	Melon Farming	Fishing	Bathing & Cloth Washing	Date of commencement of test	06.02.2024
9	Colour	Clear	Turbid	Green	Light Black	Date of completion of test	19.02.2024
10	Odour	None	Fishy	H ₂ S	Other	Sample Report No	W-590
11	Particulars of sample collected	River water sample				Sample No	W-590

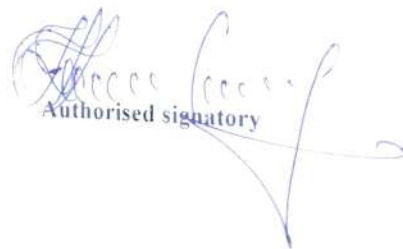
Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	pH	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	8.41	IS 3025 (Part 11): 2022
2	Conductivity	µS/cm	-	-	-	-	2250	1127	IS 3025 (Part 14): 2019
3	Total Coliform	MPN/100ml	50	500	5000	-	-	35000	APHA 23rd edition (9223 B): 2017
4	Fecal Coliform	MPN/100ml	-	-	-	-	-	7900	APHA 23rd edition (9221 E): 2017
5	Oxygen (Dissolved)	mg/L	6	5	4	4	-	7.4	IS 3025 (Part 38): 2019 APHA 23rd edition
6	Biochemical Oxygen Demand at 27 °C for 3 days	mg/L	2	3	3	-	-	4.0	IS 3025 (Part 44): 2019
7	Chemical Oxygen Demand	mg/L	-	-	-	-	-	48	IS 3025 (Part 58): 2017
8	Nitrate as N	mg/L	-	-	-	-	-	0.2	IS 3025 (Part 34): 2019 APHA 23rd edition (4500 NO ₃ -D): 2017
9	Ammonia as N	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 34): 2019
10	Turbidity	NTU	-	-	-	-	-	10	IS 3025 (Part 10): 2017
11	Boron	mg/L	-	-	-	-	2	BDL	APHA 23rd edition
12	Sodium Absorption Ratio (SAR)	-	-	-	-	-	26	3.8	IS 11624: 2019
13	Total Suspended solids	mg/L	-	-	-	-	-	14	IS 3025 (Part 17): 2022

P.T.O

1	Station code	1183	Page 2 of 2	River
2	Date & time of Sample taken	Date 05/02/2024	Time 10:45 AM	Type of Water Body
3	Name of Monitoring Station	Bhima at D/S of Bridge Ganagapur	SAMPLE COLLECTED BY L.O: Kalaburagi W-590 W-590	
4	Date of commencement of test	06/02/2024		
5	Date of completion of test	19/02/2024		
6	Particulars of sample collected	River Water sample		

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
14	Total Hardness as CaCO ₃	mg/L	-	-	-	-	-	298	IS 3025 (Part 21) 2019
15	Calcium as CaCO ₃	mg/L	-	-	-	-	-	50	IS 3025 (Part 40) 2019
16	Magnesium as CaCO ₃	mg/L	-	-	-	-	-	248	IS 3025 (Part 46) 2019
17	Chloride as Cl	mg/L	-	-	-	-	-	164	IS 3025 (Part 32) 2019
18	Sodium as Na	mg/L	-	-	-	-	-	150	IS 3025 (Part 45) 2019
19	Potassium as K	mg/L	-	-	-	-	-	50	IS 3025 (Part 45) 2019
20	Sulphate as SO ₄	mg/L	-	-	-	-	-	246	IS 3025 (Part 24) 2022
21	P- Alkalinity	mg/L	-	-	-	-	-	8	IS 3025 (Part 23) 2019
22	Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	190	
23	Total Dissolved Solids	mg/L	-	-	-	-	-	738	IS 3025 (Part 16) 2017
24	Total Phosphate as P	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 31) 2022
25	Fluoride as F	mg/L	-	-	-	-	-	0.4	IS 3025 (Part 60) 2019
INFERENCE		Class " D " - with respect to the above analysed Parameters as per Primary Water Quality Criteria - CPCB							
		Designated best use - Propagation of Wild Life Fisheries							

- Note:** 1. The above results pertain only to the sample tested.
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 3. Samples will be stored for a period of 10 days from the date of issue of report.
 4. BDL: Below Detection Level in mg/L.


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REGIONAL OFFICE, KARNATAKA STATE POLLUTION CONTROL BOARD

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REGIONAL LABORATORY

ANALYSIS REPORT

Date : 26.02.2024

1.	Station code	1184				Page 1 of 2	
2.	Date & time of Sample taken	Date	05.02.2024	Time	12:55 PM	Type of Water Body	River
3.	Name of Monitoring Station	Bhimat D/s of Bridge Ferozabad				SAMPLE COLLECTED BY I.O. Kalaburagi	
4.	Temperature	27					
5.	Visible Effluent Discharge in Proximity	None	Moderate	High	Other	Completed by	Shivakumar C N
6.	Weather	Cloudy	Clear	Windy	Raining	Verified by	Senior Scientific Officer
7.	Depth of water body (meter)	< 50 cm	50-100cm	>100 cm	Flood	AGENCY	KARNATAKA
8.	Human Activities	Cattle Wading	Melon Farming	Fishing	Cloth Washing	Date of commencement of test	06.02.2024
9.	Colour	Clear	Turbid	Green	Light Black	Date of completion of test	19.02.2024
10.	Odour	None	Fishy	H2S	Other	Sample Report No	W-591
11.	Particulars of sample collected	River water sample				Sample No.	W-591

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1.	pH	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	8.48	IS 3025 (Part 13) 2012
2.	Conductivity	µS/cm	-	-	-	-	2250	1108	IS 3025 (Part 14) 2014
3.	Total Coliform	MPN/100ml	50	500	5000	-	-	92000	APHA 23rd edition (9223-B) 2017
4.	Fecal Coliform	MPN/100ml	-	-	-	-	-	24000	APHA 23rd edition (9221-E) 2017
5.	Oxygen (Dissolved)	mg/L	0	3	4	4	-	8.7	IS 3025 (Part 58) 2019 APHA 23rd edition 4500-06-0 2017
6.	Biochemical Oxygen Demand @ 27° C for 3 days	mg/L	2	3	3	-	-	4.0	IS 3025 (Part 44) 2019
7.	Chemical Oxygen Demand	mg/L	-	-	-	-	-	82	IS 3025 (Part 58) 2017
8.	Nitrate as N	mg/L	-	-	-	-	-	1.9	IS 3025 (Part 34) 2019 APHA 23rd edition (4500-NO ₃ -D) 2017
9.	Ammonia as N	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 34) 2019
10.	Turbidity	NTU	-	-	-	-	-	3	IS 3025 (Part 19) 2017
11.	Boron	mg/L	-	-	-	-	2	BDL	APHA 23rd edition
12.	Sodium Absorption Ratio (SAR)	-	-	-	-	-	26	1.8	IS 11024 2019
13.	Total Suspended solids	mg/L	-	-	-	-	2	10	IS 3025 (Part 47) 2012

P.T.O

2 of 2

1	Station code	1184				Page 2 of 2	
2	Date & time of Sample taken	Date	06/02/2024	Time	12:55 PM	Type of Water Body	River
3	Name of Monitoring Station	Bhima at D/s of Bridge Ferozabad					SAMPLE COLLECTED BY
4	Date of commencement of test	06/02/2024					
5	Date of completion of test	19/02/2024					
6	Particulars of sample collected	River Water sample					

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
14	Total Hardness as CaCO_3	mg/L	-	-	-	-	-	282	IS 3025 (Part 21) 2019
15	Calcium as CaCO_3	mg/L	-	-	-	-	-	46	IS 3025 (Part 40) 2019
16	Magnesium as CaCO_3	mg/L	-	-	-	-	-	236	IS 3025 (Part 46) 2019
17	Chloride as Cl	mg/L	-	-	-	-	-	170	IS 3025 (Part 42) 2019
18	Sodium as Na	mg/L	-	-	-	-	-	165	IS 3025 (Part 45) 2019
19	Potassium as K	mg/L	-	-	-	-	-	9.0	IS 3025 (Part 43) 2019
20	Sulphate as SO_4	mg/L	-	-	-	-	-	244	IS 3025 (Part 24) 2022
21	P- Alkalinity	mg/L	-	-	-	-	-	20	IS 3025 (Part 23) 2019
22	Total Alkalinity as CaCO_3	mg/L	-	-	-	-	-	208	IS 3025 (Part 23) 2019
23	Total Dissolved Solids	mg/L	-	-	-	-	-	798	IS 3025 (Part 16) 2019
24	Total Phosphate as P	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 31) 2022
25	Fluoride as F	mg/L	-	-	-	-	-	0.36	IS 3025 (Part 60) 2019
INFERENCE		Class " D " - with respect to the above analysed Parameters , as per Primary Water Quality Criteria – CPCB							
		Designated best use -Propagation of Wild Life Fisheries							

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 4 BDL - Below Detection Level in mg/L

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REGIONAL LABORATORY

ANALYSIS REPORT

Date : 26.02.2024

1	Station code	1888				Page: 1 of 2	
2	Date & time of Sample taken	Date	05.02.2024	Time	1:30 PM	Type of Water Body	River
3	Name of Monitoring Station	Bluma at Confluence of Jewargi town Sewage				SAMPLE COLLECTION	
4	Temperature	27				EO-Kalaburagi	
5	Visible & Meant Discharge in Proximity	None	Moderate	High	Other	Completed by	Shreekanth C. S.
6	Weather	Cloudy	Clear	Windy	Raining	Verified by	Senior Scientific Officer
7	Depth of water body (meter)	50 cm	50-100cm	>100 cm	Flood	AGENCY	KARNATAKA
8	Human Activities	Cattle Wading	Melon Farming	Fishing	Bathing & Cloth Washing	Date of commencement of test	06.02.2024
9	Colour	Clear	Turbid	Green	Light Black	Date of completion of test	19.02.2024
10	Odour	None	Fishy	H ₂ S	Other	Sample Report No	W-592
11	Particulars of sample collected	River water sample				Sample No	W-592

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	pH	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	8.4	IS 3045 (Part 1): 2002
2	Conductivity	µS/cm	-	-	-	-	2250	1108	IS 3045 (Part 14): 2019
3	Total Coliform	MPN/100ml	50	500	5000	-	-	2300	APIA 23rd edition (92211): 2017
4	Fecal Coliform	MPN/100ml	-	-	-	-	-	2300	APIA 23rd edition (92211): 2017
5	Oxygen (Dissolved)	mg/L	6	5	4	4	-	8.8	IS 3045 (Part 30): 2019 APIA 23rd edition (4300-01): 2017
6	Biochemical Oxygen Demand @ 27° C for 5 days	mg/L	2	3	5	-	-	8.0	IS 3045 (Part 44): 2019
7	Chemical Oxygen Demand	mg/L	-	-	-	-	-	63	IS 3045 (Part 38): 2017
8	Nitrate as N	mg/L	-	-	-	-	-	0.8	IS 3045 (Part 34): 2019 APIA 23rd edition (4400-02.0): 2017
9	Ammonia as N	mg/L	-	-	-	-	-	BDL	IS 3045 (Part 34): 2019
10	Turbidity	NTU	-	-	-	-	-	14	IS 3045 (Part 19): 2017
11	Boroh	mg/L	-	-	-	-	-	2	BDL APIA 23rd edition
12	Sediment Absorption Ratio (SAR)						26	4.7	IS 3045 (Part 17): 2017
13	Total Suspended Solids	mg/L	-	-	-	-	-	18	IS 3045 (Part 17): 2017

P.T.O

Station code		1888		Page 2 of 2	
Date & time of Sample taken	(date)	(time)	to PM	Type of Water Body	River
Name of Monitoring Station	Rhimra at Confluence of Jewargi town Sewage			SAMPLE COLLECTED BY FO: Kalaburagi	
Date of commencement of test	18-07-2024			W-592	
Date of completion of test	18-07-2024			W-592	
Particulars of sample collected	River Water sample				

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
14	Total Hardness as CaCO_3	mg/L	-	-	-	-	-	284	IS 3025 (Part 23) 2019
15	Calcium as CaCO_3	mg/L	-	-	-	-	-	48	IS 3025 (Part 46) 2019
16	Magnesium as CaCO_3	mg/L	-	-	-	-	-	236	IS 3025 (Part 46) 2019
17	Chloride as Cl	mg/L	-	-	-	-	-	162	IS 3025 (Part 32) 2019
18	Sodium as Na	mg/L	-	-	-	-	-	167	IS 3025 (Part 45) 2019
19	Potassium as K	mg/L	-	-	-	-	-	50	IS 3025 (Part 45) 2019
20	Sulphate as SO_4	mg/L	-	-	-	-	-	275	IS 3025 (Part 24) 2022
21	P- Alkalinity	mg/L	-	-	-	-	-	12	IS 3025 (Part 23) 2019
22	Total Alkalinity as CaCO_3	mg/L	-	-	-	-	-	210	
23	Total Dissolved Solids	mg/L	-	-	-	-	-	766	IS 3025 (Part 16) 2017
24	Total Phosphate as P	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 11) 2022
25	Fluoride as F	mg/L	-	-	-	-	-	0.32	IS 3025 (Part 60) 2014
INFERENCE		Class "D" with respect to the above analysed Parameters as per Primary Water Quality Criteria CPCB							Designated best use - Propagation of Wild Life Fisheries

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 3 Samples will be stored for a period of 10 days from the date of issue of report
 4 BDL: Below Detection Level in mg/L

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REGIONAL LABORATORY
ANALYSIS REPORT

Date : 26.02.2024

1	Station code	1895				Page 1 of 2	
2	Date & time of Sample taken	Date	05.02.2024	Time	2:20 PM	Type of Water Body	River
3	Name of Monitoring Station	Kagina River at D/S of Shahabad town sewage confluence point				SAMPLE COLLECTED BY :	
4	Temperature	26				EO:Kalaburagi	
5	Visible Effluent Discharge in Proximity	None	Moderate	High	Other	Completed by	Shivakumar C S
6	Weather	Cloudy	Clear	Windy	Raining	Verified by:	Senior Scientific Officer
7	Depth of water body (meter)	< 50 cm	50-100cm	>100 cm	Flood	AGENCY:	KARNATAKA
8	Human Activities	Cattle Wading	Melon Farming	Fishing	Bathing & Cloth Washing	Date of commencement of test	06.02.2024
9	Colour	Clear	Turbid	Green	Light Black	Date of completion of test	19.02.2024
10	Odour	None	Fishy	H ₂ S	Other	Sample Report No.	W-593
11	Particulars of sample collected	River water sample				Sample No.	W-593

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	pH	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	8.49	IS 3025 (Part 11): 2022
2	Conductivity	µS/cm	-	-	-	-	2250	576	IS 3025 (Part 14): 2019
3	Total Coliform	MPN /100ml	50	500	5000	-	-	92000	APHA 23rd edition (9223 B): 2017
4	Fecal Coliform	MPN /100ml	-	-	-	-	-	54000	APHA 23rd edition (9221 E): 2017
5	Oxygen (Dissolved)	mg/L	6	5	4	4	-	8.0	IS 3025 (Part 58): 2019 APHA 23rd edition (4500-O G): 2017
6	Biochemical Oxygen Demand @ 27° C for 3 days	mg/L	2	3	3	-	-	4.0	IS 3025 (Part 44): 2019
7	Chemical Oxygen Demand	mg/L	-	-	-	-	-	62	IS 3025 (Part 58): 2017
8	Nitrate as N	mg/L	-	-	-	-	-	1.0	IS 3025 (Part 34): 2019 (4500 NO ₃ -D): 2017
9	Ammonia as N	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 34): 2019
10	Turbidity	NTU	-	-	-	-	-	2	IS 3025 (Part 10): 2017
11	Boron	mg/L	-	-	-	-	-	26	APHA 23rd edition
12	Sodium Absorption Ratio (SAR)	-	-	-	-	-	-	1.9	IS 11624:2019
13	Total Suspended solids	mg/L	-	-	-	-	-	16	IS 3025 (Part 17): 2022

P.T.O

1	Station code	1895				Page 2 of 2		2 of 2
2	Date & time of Sample taken	Date	05.02.2024	Time	02.20PM	Type of Water Body	River	
3	Name of Monitoring Station	Kagina River at D/S of Shahabad town sewage confluence point					SAMPLE COLLECTED BY EO: Kalaburagi W-593 W-593	
4	Date of commencement of test	06.02.2024						
5	Date of completion of test	19.02.2024						
6	Particulars of sample collected	River Water sample						

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
14	Total Hardness as CaCO ₃	mg/L	-	-	-	-	-	204	IS 3025 (Part 21): 2019
15	Calcium as CaCO ₃	mg/L	-	-	-	-	-	86	IS 3025 (Part 40): 2019
16	Magnesium as CaCO ₃	mg/L	-	-	-	-	-	118	IS 3025 (Part 46): 2019
17	Chloride as Cl	mg/L	-	-	-	-	-	52	IS 3025 (Part 32): 2019
18	Sodium as Na	mg/L	-	-	-	-	-	62	IS 3025 (Part 45): 2019
19	Potassium as K	mg/L	-	-	-	-	-	4.0	IS 3025 (Part 45): 2019
20	Sulphate as SO ₄	mg/L	-	-	-	-	-	38	IS 3025 (Part 24): 2022
21	P- Alkalinity	mg/L	-	-	-	-	-	16	IS 3025 (Part 23): 2019
22	Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	250	
23	Total Dissolved Solids	mg/L	-	-	-	-	-	384	IS 3025 (Part 16): 2017
24	Total Phosphate as P	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 31): 2022
25	Fluoride as F	mg/L	-	-	-	-	-	0.33	IS 3025 (Part 60): 2019
INFERENCE			Class " D "- with respect to the above analysed Parameters , as per Primary Water Quality Criteria - CPCB.						
			Designated best use -Propagation of Wild Life Fisheries.						

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REGIONAL LABORATORY
ANALYSIS REPORT

1	Station code	2777	Date : 26.02.2024			
2	Date & time of Sample taken	Date 05.02.2024	Time 3.28 PM	Type of Water Body	River	Page 1 of 2
3	Name of Monitoring Station	Kagina River at D/S of Shahabad bridge				SAMPLE COLLECTED BY :
4	Temperature	28				EO:Kalaburagi
5	Visible Effluent Discharge in Proximity	None	Moderate	High	Other	Completed by Shivakumar C S
6	Weather	Cloudy	Clear	Windy	Raining	Verified by: Senior Scientific Officer
7	Depth of water body (meter)	< 50 cm	50-100cm	>100 cm	Flood	AGENCY: KARNATAKA
8	Human Activities	Cattle Wading	Melon Farming	Fishing	Bathing & Cloth Washing	Date of commencement of test 06.02.2024
9	Colour	Clear	Turbid	Green	Light Black	Date of completion of test 19.02.2024
10	Odour	None	Fishy	H ₂ S	Other	Sample Report No. W-594
11	Particulars of sample collected	River Water sample				Sample No. W-594

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
1	pH	-	6.5-8.5	6.5-8.5	6.0-9.0	6.5-8.5	6.0-8.5	8.55	IS 3025 (Part 11) 2022
2	Conductivity	µS/cm	-	-	-	-	2250	568	IS 3025 (Part 14) 2019
3	Total Coliform	MPN /100ml	50	500	5000	-	-	9200	APHA 23rd edition (9223 B) 2017
4	Fecal Coliform	MPN /100ml	-	-	-	-	-	5400	APHA 23rd edition (9221 E) 2017
5	Oxygen (Dissolved)	mg/L	6	5	4	4	-	7.9	IS 3025 (Part 38) 2019 APHA 23rd edition (4500-O G) 2017
6	Biochemical Oxygen Demand @ 27° C for 3 days	mg/L	2	3	3	-	-	3.0	IS 3025 (Part 44) 2019
7	Chemical Oxygen Demand	mg/L	-	-	-	-	-	45	IS 3025 (Part 58) 2017
8	Nitrate as N	mg/L	-	-	-	-	-	1.2	IS 3025 (Part 34) 2019 APHA 23rd edition (4500 NO ₃ -D) 2017
9	Ammonia as N	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 34) 2019
10	Turbidity	NTU	-	-	-	-	2	BDL	APHA 23rd edition
11	Boron	mg/L	-	-	-	-	26	1.8	IS 11624 2019
12	Sodium Absorption Ratio (SAR)	-	-	-	-	-	-	10	IS 3025 (Part 17) 2022
13	Total Suspended solids	mg/L	-	-	-	-	-	-	

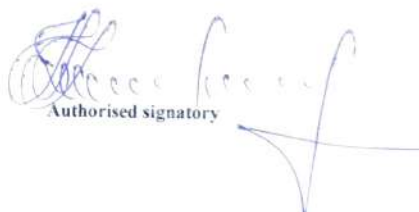
P.T.O

2 of 2

1	Station code	2777				Page 2 of 2	
2	Date & time of Sample taken	Date	05.02.2024	Time	03:28PM	Type of Water Body	River
3	Name of Monitoring Station	Kagina River at D/S of Shahabad bridge				SAMPLE COLLECTED BY :	
						EO: Kalaburagi	
4	Date of commencement of test	06.02.2024				W-594	
5	Date of completion of test	19.02.2024				W-594	
6	Particulars of sample collected	River Water sample					

Sl. No	Parameters	Unit	Water Quality Criteria					Result	Test Method
			A	B	C	D	E		
14	Total Hardness as CaCO ₃	mg/L	-	-	-	-	-	206	IS 3025 (Part 21): 2019
15	Calcium as CaCO ₃	mg/L	-	-	-	-	-	78	IS 3025 (Part 40): 2019
16	Magnesium as CaCO ₃	mg/L	-	-	-	-	-	128	IS 3025 (Part 46): 2019
17	Chloride as Cl	mg/L	-	-	-	-	-	50	IS 3025 (Part 32): 2019
18	Sodium as Na	mg/L	-	-	-	-	-	61	IS 3025 (Part 45): 2019
19	Potassium as K	mg/L	-	-	-	-	-	4.0	IS 3025 (Part 45): 2019
20	Sulphate as SO ₄	mg/L	-	-	-	-	-	35	IS 3025 (Part 24): 2022
21	P- Alkalinity	mg/L	-	-	-	-	-	16	IS 3025 (Part 23): 2019
22	Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	260	
23	Total Dissolved Solids	mg/L	-	-	-	-	-	372	IS 3025 (Part 16): 2017
24	Total Phosphate as P	mg/L	-	-	-	-	-	BDL	IS 3025 (Part 31): 2022
25	Fluoride as F	mg/L	-	-	-	-	-	0.52	IS 3025 (Part 60): 2019
INFERENCE		Class " C "- with respect to the above analysed Parameters , as per Primary Water Quality Criteria – CPCB.							
		Designated best use -Drinking water source after conventional treatment and Disinfection.							

- Note:** 1. The above results pertain only to the sample tested.
 2. The report shall not be reproduced without the written approval of the laboratory.
 3. Samples will be stored for a period of 10 days from the date of issue of report.
 4. BDL: Below Detection Level in mg/L.


 Authorised signatory

—End of Report—

National Mission for Clean Cauvery

Format for submission of Monthly Progress Report in the NGT Matter OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020) For the State of Karnataka

Name of the River	Cauvery
Polluted river stretch	Ranganathittu to Sattegala Bridge
Priority	V
Status as on	March-2024

Overall status of the State:

Particulars		TMC Srirangapatna
I.	Total Population: Urban Population & Rural Population separately	25069
II.	Estimated Sewage Generation (MLD):	2.7

III. Details of Sewage Treatment Plant:

Particulars	TMC Srirangapatna
Existing no. of STPs and Treatment Capacity (in MLD):	3.6
Capacity Utilization of existing STPs:	2.7
MLD of sewage being treated through Alternate technology:	Nil
Gap in Treatment Capacity in MLD:	Nil
No. of Operational STPs:	1
No. of Complying STPs:	1
No. of Non-complying STPs:	Nil

Details of each existing STP in the State

Name of the Local Body	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
TMC Srirangapatna	Ganjam, Srirangapatna	3.6 MLD	2.7 MLD	Operational	Complied

Details of under construction STPs in the State

Name of the Local Body	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
TMC Srirangapatna	Ganjam, Srirangapatna.	Up gradation of existing 3.6 MLD STP to 5 MLD	Up-gradation of existing 3.6 MLD STP to 5.0 MLD. Work order issued on 09-05-2022	• KUWS&DB has issued work order vide dtd on 09-05-2022. Intersection & diversion civil work of 85% is	31-12-2023

		with SBR Technology		completed. As per the work order the TMC Authorities have informed that the same will be completed within December 2023.	
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Details of proposed STPs in the State

Name of the Local Body	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
TMC Srirangapatna	Chandagalu Road, Ganjam, Srirangapatna.	Up gradation of existing 3.6 MLD STP to 5.0 MLD.	Revised DPR is prepared by KUWS&DB, Mandya Division for Rs. 16.30 Crores to divert the sewage discharged in to river through storm water drain. Connecting household to UGD by 3000 houses. Up gradation of existing 3.6 MLD STP to 5.0 MLD. The DPR is approved and work order is issued. Up-gradation of STP work of 40% is completed and the same under progress. under progress.	31-12-2023

Particulars	TMC Srirangapatna
Total number of Urban Local Bodies and their Population	25069
Current Municipal Solid Waste Generation	11.17 TPD
Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), biomethanation, MRF etc	• Composting Existing – 1.5 Gap – 3.0 TPD • Sanitary landfill Existing–Nil Gap – 2.34 TPD
Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)	DPR for Rs. 4.43 Crores is approved to provide compost plant & sanitary land fill site & the same is to be undertaken. At present the solid waste is dumped in the site without any treatment.
No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)	Nil
Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source	• Door to door collection 23/23 Wards. • Segregation practice-19 Wards
Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)	Nil
No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills	Nil
No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers	Nil
No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the	Nos. of drains 3 Nos. of drains having floating racks / screen – Nil

rivers	
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IV. Details of Industrial Pollution:

Particulars	TMC Srirangapatna
No. of industries in the State:	6
No. of water polluting industries in the State:	1
Quantity of effluent generated from the industries in MLD:	0.0196
Quantity of Hazardous Sludge generated from the Industries in TPD:	Nil
Number of industrial units having ETPs:	1
Number of industrial units connected to CETP:	Nil
Number and total capacity of ETPs (details of existing/ under construction / proposed) in MLD	No. of ETP-1, Capacity-0.022 Under construction-0, Capacity-0 Proposed-0. Capacity-0
Compliance status of the ETPs:	Complied
Number and total capacity of CETPs (details of existing/ under construction / proposed)	Nil

Status of compliance and operation of the CETPs

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
TMC Srirangapatna	Nil	Nil	Nil	Nil

V. Solid Waste Management:

Status of ULB wise Management of Solid Waste

Name of the ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
TMC Srirangapatna	11.17	1.5	Pit Composting	1.5	DPR for Rs. 4.40 Crores is approved for processing of entire MSW. Presently, the work is assigned to contractor. All civil works are completed at integrated development of SWM site and erection of machinery is under progress.

VI. Bio-medical Waste Management:

Particulars	TMC Srirangapatna
Total Bio-medical generation in Kgs/day	54.45 Kg/day
No. of Hospitals and Health Care Facilities:	Bedded: 3 Non Bedded: 19
Status of Treatment Facility/ CBMWTF:	CBMWTF

VII. Hazardous Waste Management:

Particulars	TMC Srirangapatna
Total Hazardous Waste generation:	Nil
No. of Industries generating Hazardous waste	Nil
Treatment Capacity of all TSDFs	Nil
Avg. Quantity of Hazardous waste reaching the TSDFs and Treated	Nil
Details of on-going or proposed TSDF	Nil

VIII. Plastic Waste Management:**IX.**

Particulars	TMC Srirangapatna
Total Plastic Waste generation:	0.69
Treatment/ Measures adopted for reduction or management of plastic waste:	Nil

Particulars	TMC Srirangapatna
X. Details of Alternate Treatment Technology being adopted by the State/UT	Nil
XI. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment:	3 drain is identified & monitored & the drain is connected to nearby wet well to pump the same to STP.
XII. Details of Nodal Officer appointed by Chief	-

	Secretary in the State/UT:	
XIII.	Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:	-
XIV.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;	Status of water quality of polluted rivers in Annexure-1.
XV.	Ground water regulation:	The ground water resources assessment is carried out on Taluka wise (Administrative Units) The State Govt. has taken up various Recharge/Water Conservation Schemes like for augmentation of ground water resources. In respect of semi critical area action plan will be executed with the District Administration to restore the Ground Water Table.
XVI.	Good irrigation practices being adopted by the State:	The Dept. of Agriculture has submitted action plan for implementation of following measures: I. General Government Practice of Irrigation is maintained. II. Farmers are made aware to use water optimally.
XVII.	Rain Water Harvesting:	- Rain water harvesting system is completed at TMC office building, Dr. B.R. Ambidkar Bhavan, near welsely bridge, Gandhinagar JSRY Community Hall at Ranganathnagar & water filter house at Ganjam Shishu Vihara at K.G. Road, Ganjam will be completed 15th finance tide grant. - As per the details submitted by Sr. Geologist, District Ground Water Authority, to improve the ground water situation rain water harvesting structure and some of the other artificial recharge structures are recommended to be constructed in their premises while giving the permission to extract ground water from the authority.
XVIII.	Demarcation of Floodplain and removal of illegal encroachments:	--
XIX.	Maintaining minimum e-flow of river:	The Cauvery Neeravari Nigam Ltd., is requested to submit the action plan as per MoEF & CC norms during monsoon seasons and same is not submitted
XX.	Plantation activities along the rivers:	Forest Department is requesting to submit the action plan for plantation of saplings on the bank of polluted river stretch of Cauvery the same is not yet submitted.
XXI.	Development of biodiversity park:	-
XXII.	Reuse of Treated Water:	The treated water from the STP is being partially disposed to onland for irrigation.
XXIII.	Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:	-

XXIV. Status of Preparation of Action Plan by the 13 Coastal States:	-
XXV. Regulation of Mining Activities in the State/UT:	-
XXVI. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring	-
XXVII. Overall progress of the month: Please provide overall progress achieved in terms of all the above points compared to previous month.	<u>a. Sewage Treatment Plant:</u> TMC Srirangatapna - Revised DPR is prepared by KUWS&DB, Mandya Division for Rs. 16.30 Crores to divert the sewage discharged in to river through storm water drain. Connecting household to UGD by 3000 houses. Up gradation of existing 3.6 MLD STP to 5.0 MLD. The DPR is approved and work order is issued. Up-gradation of STP work of 40% is completed and the same under progress. under progress. <u>b. Solid Waste Management Details:</u> DPR for Rs. 4.40 Crores is approved for processing of entire MSW. Presently, the work is assigned to contractor. All civil works are completed at integrated development of SWM site and erection of machinery is under progress.

Annexure-1

XIII Status of Water Quality Assessment of polluted rivers in Annexure-1

©	Details of Water Quality Monitoring locations as per NWMP	Month	DO (mg/l)	BOD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)
1	D/S of river Cauvery in Ranganathittu Bird sanctuary, SR Patna Taluk, Mandya District	March-2024	6	4.0	170	1400
2	D/s of left bank of river Cauvery in Mandya Water Supply Intake Point near SR Patna Taluk, Mandya District	March-2024	5.9	4.0	270	1700
3	D/s of right bank of river Cauvery in Srirangapatna Water Supply Intake Point near Wellesly Bridge TMC SR Patna, Mandya District	March-2024	5.2	5.0	260	2100
4	D/S of river Cauvery in Mysore-Bangalore Road Bridge of TMC Srirangapatna, Mandya District	March-2024	5.8	5.0	260	2100

ANNEXURE-2

XIV Status of Ground Water Resource Assessment in Annexure-2

District	Taluka	Net Annual Ground Water Availability (HAM)	Total Ground Water Draft (HAM)	Gap between availability and Draft (HAM)	Stage of Ground Water Development (%)*	Category
Mandya	Srirangapatna	6769.77	2960.12	3809.65	44%	*Safe (≤ 70)
Note:- The ground water resources assessment is carried out on Taluk wise (Administrative Units) The State Govt. has taken up various Recharge/Water Conservation Schemes like for augmentation of ground water resources.						

National Mission for Clean Ganga

Format for submission of Monthly Progress Report in the NGT Matter OA

No. 673 of 2018 (in compliance to NGT order dated 24.09.2020)

For the State of Karnataka

Name of the River : Krishna
Polluted river stretch : Yadurwadi to Tintini bridge (200 km)
Priority : V
Status as on : Mar 2024

Overall status of the State:

Total Population: Urban Population & Rural Population separately: **394643** (Details Enclosed as Annexure-1)

1. TMC- Devadurga – 28929
2. TMC Lingasugur - 15224
3. Hutti TP - 16525
4. Hutti Notified Area – 13535
5. TMC Chikkodi & TMC Sadalaga -Urban Population- 1,62,136 &
Rural Population-1,58,294

Estimated Sewage Generation (MLD): **37.6 MLD** (Details Enclosed as Annexure-1)

1. TMC- Devadurga – 2.25 MLD
2. TMC Lingasugur – 1.6 MLD
3. Hutti TP -1.6 MLD
4. Hutti Notified Area –1.4 MLD
5. TMC Chikkodi & TMC Sadalaga - Urban-15.56 & Rural-15.19 MLD

I. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD):

1. Hatti Gold Mines - 2 Nos of 1.25 MLD each
2. TMC Chikkodi - 5.80 MLD
3. TMC Sadalaga – 3.72 MLD

Total -12.02 MLD

- Capacity Utilization of existing STPs:

1. Hatti Gold Mines - 1.4 MLD

2. TMC Chikkodi – 4.592 MLD

3. TMC Sadalaga – 00 MLD (Since, now it is under repair)

Total - 5.992 MLD

- MLD of sewage being treated through Alternate technology:
- Gap in Treatment Capacity in MLD: **31.608 MLD**
- No. of Operational STPs: 3
- No. of Complying STPs: 3
- No. of Non-complying STPs: 1

Details of each existing STP in the State

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
1	Hutti Notified Area, Lingasugur	2x1.25 MLD	1.4 MLD	2 nos, Operational	Partially Complied
2	Chikodi	5.80	4.592	Operational	complied
3	Sadalaga	3.72	00	Construction of STP work is completed and now it is under repair	Now it is under repair
4	Total	12.02	5.992	-	-

Details of under construction STPs in the State

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
1	Nil	Nil	Nil	Nil	Nil

Details of proposed STPs in the State

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1	Town Municipal Council, Lingsugur-Tq, Raichur-Dist.	6.82	Submitted to Govt. by MD, KUWS&DB, Bangalore for administrative approval vide letter no 897/2019-20, dated 04/10/2019, Awaiting approval from Govt.	-
2	Town Municipal Council, Deodurga, RaichurDist	5	Submitted to Govt. by MD, KUWS&DB, Bangalore for administrative approval vide letter no 49/2020-21, dated 08/04/2020, Awaiting approval from Govt.	-
3	Town Municipal Council, Kudachi, RaibagTaluk, Belagavi District	4.30	DPR Prepared by KUWSSB and submitted to DMA	31-07-2021
4	Town Panchayat, ChinchaliRaibagTaluk Belagavi District.	3.88	DPR Prepared by KUWSSB and submitted to DMA	31-07-2021
5	Town PanchayatAinapur, Athani-Taluk, Belagavi District	4.37	DPR Prepared by KUWSSB and submitted to DMA	31-07-2021
6	Town Panchayat Examba ChikkodiTalukBelagavi District.	2.61	DPR Prepared by KUWSSB and submitted to DMA	31-07-2021
7	Town Municipal Council Ugarkurd, AthaniTaluk, Belagavi District	3.2	DPR Prepared by KUWSSB and submitted to DMA	31-07-2021

II. Details of Industrial Pollution:

- No. of industries in the Stretch: 5
- No. of water polluting industries in the State: 5

- Quantity of effluent generated from the industries in MLD: **6.0085 MLD**
- Quantity of Hazardous Sludge generated from the Industries in TPD: **Nil**
- Number of industrial units having ETPs: **5**
- Number of industrial units connected to CETP: **There are no CETP's**
- Number and total capacity of ETPs (details of existing/ under construction / proposed)
Existing : 5 no's and 10.93 MLD.
- Compliance status of the ETPs: **Operational and Complied**
- Number and total capacity of CETPs (details of existing/ under construction / proposed) : **Nil**
- Status of compliance and operation of the CETPs : **Nil**

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
Lingasugur	M/s Hutti Gold Mines Co., Ltd, Hutti Village, Lingasugur-Tq, Dist-Raichur.	0.46 MLD	2x1.25 MLD capacity Common Treatment Plant (Effluent/Sewage)	Existing
M/s. Shivashakti Sugar Ltd, Soudatti Village, Raibag, Taluk, Belagavi District.	04	4.793	Operational	NA
M/s. Krishna SSK Ni, Sankonatti Village, Athani Taluk, Belagavi District.				

M/s. Ugar Sugar works ltd, Ugarkhurd Village, Athani Taluk, Belagavi District.				
M/s. Hermers Distillery Private limited, Yadravi Vilage, Raibag Taluk, Belagavi District.				

III. Solid Waste Management:

- Total number of Urban Local Bodies and their Population : **255811** (details Enclosed as Annexure- II)
- Current Municipal Solid Waste Generation: **82.68 TPD** (details Enclosed as Annexure- II)
- Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), bimethanation, MRF etc: **Enclosed as Annexure- II**
- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%): **41.88TPD. - Action plan is yet to be submitted.**
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction): **Nil.**

- Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source : **153 Wards** (details Enclosed as Annexure- II)
- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology) : **Nil**
- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills and no. and area (in acres) of legacy waste within 1km buffer of both side of the rivers:

Sl. No	Local Bodies (7 No's)	Area of uncontrolled garbage dumpsites (Acres)
1	Town Panchayat Examba Chikkodi Taluk, Belagavi District.	--
2	Town Muncipal Council Ugarkurd, Athani Taluk, Belagavi District.	--
3	Town Muncipal Council, Kudachi, Raibag Taluk, Belagavi District	1.0
4	Town Panchayat Chinchali, Raibag Taluk Belagavi District	--
5	Town Panchayat Ainapur, Athani-Taluk, Belagavi District.	--
6	Town Muncipal Council Sadalaga, Chikkodi Taluk, Belagavi District.	0.5
7	Town Muncipal Council Chikkodi, Chikkodi Taluk, Belagavi District.	1.5

- No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers: **Nil**

Status of ULB wise Management of Solid Waste

ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
TMC- Deodurga, DeodurgaTq, Raichur Dist.	6 T	0	MSW Site Existing	---	Directions were given to all the concerned Local Bodies to take immediate action to
TMC Lingasugur, LingasugurTq, Raichur Dist.	14.4 T	0	MSW Site Existing	---	
Hutti TP, LingasugurTq,	6 T	0	MSW Site Existing	---	

Raichur Dist.					comply with SWM Rules, 2016 from time to time.
Hutti Notified Area, LingasugurTq, Raichur Dist.	8 T	0	MSW site existing. Further, in Hutti Gold Mines, the wet waste is being digested and bio gas is being produced and utilized for canteen.	---	Target date to comply is 31.12.2020.
Town Panchayat Examba ChikkodiTaluk, Belagavi District.	4.5	0	There is no any solid waste management & processing facilities provided by the newly formed ULB's (during 2015)	Not provided	Directions were given to the concerned newly formed (during 2015) Local Bodies to take immediate action to comply with SWM Rules within 30-06-2021
Town Muncipal Council Ugarkurd, Athani Taluk, Belagavi District.	08	0		Not provided	
Town Panchayat Ainapur, Athani-Taluk, Belagavi District.	05	0		Not provided	
Town Panchayat, Chinchali,Raibag Taluk Belagavi District	4.78	0		Not provided	
Town Muncipal Council Sadalaga, Chikkodi Taluk, Belagavi District.	05	02	Soild waste management & processing facilities provided by existing	1. Recyclable waste-0.05MT 2. RDF Material-1.0 MT 3. Low lying area-1.0 MT	31-12-2020

			ULB's	4. Inert-0.45	
Town Municipal Council Chikkodi, Chikkodi Taluk, Belagavi District.	14.5	2.5		a)Engineering pits composting---3.5 MT <u>Dry Waste</u> 1 Recyclable waste-0.15 MT 2 RDF Material-3.81 MT 3 Low lying area-4.40 MT 4 Inert-0.14	
Town Municipal Council, Kudachi, Raibag Taluk, Belagavi District	6.5	1.9		a)Engineering pits composting---1.0 MT <u>Dry Waste</u> 1. Recyclable waste-0.1MT 2. RDF Material-2.0 MT 3. Low lying area-1.0 MT 4. Inert-0.5	
Total	48.28	6.4	-	19.6	-

IV. **Bio-medical Waste Management:**

- Total Bio-medical generation: **360 Kg/day**
- No. of Hospitals and Health Care Facilities: **371 nos**
- Status of Treatment Facility/ CBMWTF:
 - 1. In Raichur zone BMW waste is treated in RIMACT facility.**
 - 2. In Chikkodi zone it is handed over to CBMWTF.**

V. **Hazardous Waste Management:**

- Total Hazardous Waste generation:

A. In Raichur zone :

- 1. Cyanide Tailing- 6,38,540 Tons & stowing sand of 79,152 Tons, (Total 5,59,388 Tons of Cyanide treated ore waste impound in tailing dump).**

2. **Used Oil- 74 liters.**

3. **Discarded Containers-7112 nos. (As per Annual Report From-IV submitted for the year 2019-20).**

B. In Chikkodi zone quantity of 0.041872 TPD is generated.

- No. of Industries generating Hazardous waste: 5
- Treatment Capacity of all TSDFs : **Nil**
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated : **Nil**
- Details of on-going or proposed TSDF: **Nil**

VI. Plastic Waste Management:

- Total Plastic Waste generation: **0.613 TPD**
- Treatment/ Measures adopted for reduction or management of plastic waste: - **Local bodies have started to hand over plastic waste/ RDF materials to Dalmia Cement (Bharat) Ltd, Yadwad, Cement plant for co-processing in cement kiln. There are no Unregistered Manufacturing or recycling of plastic units.**

VIII. Details of Alternate Treatment Technology being adopted by the State/UT : Local bodies have started to hand over plastic waste/ RDF materials to Dalmia Cement (Bharat) Ltd, Yadwad, Cement plant for co-processing in cement kiln.

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

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

IX. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT: ----

X. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river: Enclosed as Annexure-IV

Good irrigation practices being adopted by the State:

1. Crop diversification: Replacement of high water demanding commercial crops with low water requiring crops like Pulses and Oilseeds particularly in Command areas by mandating at Government level.

2. Micro Irrigation: Adoption of Micro irrigation practices for all the crops and making Micro irrigation technology easily accessible at the rural level.
3. Making Ground Water extraction beyond a specific limit punishable under the Act (Not allowing Borewell digging activities in vulnerable or exploited areas).
4. Crop Intensification: Providing incentives to the farmer for taking up Crop intensification in the command areas.
5. Modification in Surface Irrigation Methods: Surface water can be utilised in a minimised way by adopting alternate row irrigation system.
6. Mulching Practices: Any organic or inorganic materials can be used for mulching to reduce evapotranspiration, thereby reducing irrigation intervals and water amount.

IX. **Rain Water Harvesting:** Letter addressed to the Project Director, DUDC & Project Director, ZP, Belagavi for compliance.

X. **Demarcation of Floodplain and removal of illegal encroachments:** The 16 villages situated in the bank of Krishna river will be warned by Revenue department as per the flood memorandum through early warning arrangement.

XI. **Maintaining minimum e-flow of river:** Letter addressed to the Executive Engineer, Major Irrigation Department, Chikkodi for compliance.

XII. **Plantation activities along the rivers:** Letter addressed to the DCF, Gokak, Karnataka Forest Department for compliance.

XIII. **Development of biodiversity park:** Letter addressed to the DCF, Gokak, Karnataka Forest Department for compliance.

XIV. **Reuse of Treated Water:**--The industrial effluent after treatment is used on land for irrigation and partially recycled back into process. All the industries i.e. 03 No's of sugar industries and 02 N Distillery units have installed OCEMS.

Details of treated trade effluent used for irrigation in the agriculture land

Sl.No	Name of the industry	Total agriculture land (Acres)
1	M/s. Shivashakti Sugar ltd, Soudatti Village, RaibagTaluk, Belaga District.	220
2	M/s. Krishna SSK Ni, Sankonatti Village, Athani Taluk, Belagavi District.	156
3	M/s. Ugar Sugar works Ltd, Ugarkhurd Village, AthaniTaluk,Belagavi District.	800

XV. **Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:**--Nil

XVI. **Status of Preparation of Action Plan by the 13 Coastal States:---NA**

XVII. **Regulation of Mining Activities in the State/UT:** There is no mining active located in the Krishna river basin.

XVIII. **Action against identified polluters. Law violators and officers responsible for failure for vigorous monitoring-**Meeting held on 19-11-2020 at Deputy Commissioner Office Belagavi along with Commissioners/Chief Officers of the Local Bodies and direction given to comply with the provisions of the Water Act 1974, Solid waste management Rules, 2016, Plastic waste management Rules, 2016, Bio-medical waste management Rules, 2016 and Construction and Demolition waste (Management) Rules, 2016.

Meeting held on 09-02-2021 under the Chairmanship of Deputy Commissioner at Deputy Commissioner Office Belagavi along with Commissioners/Chief Officers of the Local Bodies and direction given to comply with the provisions of the Water Act 1974, Solid waste management Rules, 2016, Plastic waste management Rules, 2016, Bio-medical waste management Rules, 2016 Construction and Demolition waste (Management) Rules, 2016 and E-waste (Management) Rules, 2016. The other concerned Departments were informed to take action and to furnish details within 5th of every month.

XIX. **Overall progress of the month:**
Please provide overall progress achieved in terms of all the above points compared to previous month---Nil

Annexure-1

Sl.No	Local Body	Population-2011	Quantity of sewage generation in MLD	STP provided not provided
1	TMC-Devadurga	28929	2.25	Not provided
2	TMC Lingasugur	15224	1.6	Not provided
3	Hutti TP	16525	1.6	Not provided
4	Hutti Notified Area	13535	1.4	Being treated in 2x1.25 MLD STP provided at Hatti Gold Mines
5	TMC Chikkodi	Urban Population - 1,62,136 & Rural	Urban- 15.56 & Rural- 15.19	Provided of capacity 5.80 MLD
6	TMC Sadalaga	Population -1,58,294		Provided of capacity 3.72MLD
7	Total	382,461	37.6	12.02

Annexure-II

Sl. No	Name of Local Body	Population (census2011)	Total Solid Waste Generation (TPD)	Proposed Achievable target	Present Status
1	TMC- Deodurga, DeodurgaTq, Raichur Dist.	28929	6	Directions were given to all the concerned Local Bodies to take immediate action to comply with SWM Rules, 2016 from time to time. Target date to comply is 31.12.2020.	MSW Site Existing
2	TMC Lingasugur, LingasugurTq, Raichur Dist.	34932	14.4		MSW Site Existing
3	Hutti TP, LingasugurTq, Raichur Dist.	16278	6		MSW Site Existing
4	Hutti Notified Area, LingasugurTq, Raichur Dist.	13536	8		MSW siteexisting. Further, in Hutti Gold Mines, the wet waste is being digested and bio gas is being produced and utilized for canteen.
5	Town Panchayat Examba Chikkodi Taluk, Belagavi District.	15224	4.5	-	0
6	Town Municipal Council Ugarkurd, Athani Taluk, Belagavi District.	23762	08	-	0

7	Town Muncipal Council, Kudachi, Raibag Taluk, Belagavi District	23154	6.5	-	1.9 T, Vermi composting and Engineering pit composting
8	Town Panchayat, Chinchali, Raibag Taluk Belagavi District	18986	4.78	-	00
9	Town Panchayat Ainapur, Athani-Taluk, Belagavi District.	18913	05	-	00
10	Town Muncipal Council Sadalaga, Chikkodi Taluk, Belagavi District.	23790	05	-	02 T, Vermi composting
11	Town Muncipal Council Chikkodi, Chikkodi Taluk, Belagavi District.	38307	14.5	-	2.5 T, Vermi composting and Engineering pit composting
12	Total	255811	82.68		

Details of no of Ward, Door to Door collection and Segregation

Name of the Local Bodies	Total No wards	No of wards Door to Door collection	No of wards practicing segregation
Town Panchayat Examba Chikkodi Taluk, Belagavi District.	17	16	12
Town Muncipal Council Ugarkurd, AthaniTaluk, Belagavi District.	23	23	18
Town Muncipal Council, Kudachi, RaibagTaluk,	23	23	19

Belagavi District			
Town Panchayat, Chinchali, Raibag Taluk Belagavi District	19	19	16
Town Panchayat Ainapur, Athani-Taluk, Belagavi District.	19	19	12
Town Municipal Council Sadalaga, Chikkodi Taluk, Belagavi District.	23	23	19
Town Municipal Council Chikkodi, Chikkodi Taluk, Belagavi District.	23	23	10
Total	147	146	106

Annexure-III
Sources including Nala/Drains joining to River – Krishna and its Water Quality

Sl No	Location	pH	BOD	COD	TSS
1	Sunakal Nala	7.7	2.2	26	20
2	Halabhavi Nala	8.00	2.2	22	8
3	Jaladurga Nala	8.25	2	25	8
4	Gonavatla Nala	8.20	3	24	21
5	Guntagola Nala	8.05	3	28	20
6	Ramroti Nala	8.00	3	25	16
7	Raidurga Nala	8.35	3	33	18

Status of Water Quality of River – Krishna @ Tintani Bridge

Year	DO (mg/L)		BOD(mg/L)		Faecal Coliform (MPN/100ml)		Total Coliform (MPN/100ml)		Class
	Min	Max	Min	Max	Min	Max	Min	Max	
2017-18	6.6	7.6	2	2.5	110	350	920	1600	C
2018-19	7	7.6	2	3	110	1000	500	3200	C
2019-20	6.6	7.6	2	2.5	110	350	920	1600	C
2020-21	7	7.8	2	2.5	94	450	540	2200	C
2021-22	7	7.6	2	3	140	490	920	2800	C
2022-23	6.8	8.15	2	6	170	4600	70	35000	C

Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment:

Sl. No	Name of the point were collected the sample	Latitude Longitude	Population	Flow in KL
1	Yadurwadi	16.60568, 74.68154	8613	344.2
2	Kalloli	16.57535, 74.64262	5171	206.84
3	Yadur	16.57114, 74.66414	4261	170.44
4	Ankali	16.547345, 74.682533	11261	450.44
5	BavanSaudatti	16.558274, 74.702167	6232	249.28
6	Diggewadi	16.567793, 74.746118	4617	184.68
7	Chinchalli	16.343296, 74.474674	4483	179.32
8	Malawad	16.344413, 74.473057	3446	137.84
9	Krishna Kittur	16.381595, 74.544653	5217	208.68
10	Shirgur	16.365143, 74.55916	2385	95.4
11	Kudachi	16.63838, 74.84928	23154	926.16
12	Sapatsagar	16.633246, 74.948080	4352	174.08
13	Agarani	16.394606, 74.575065	1018	40.72
14	Hulagabali	16.659864, 74.992670	8359	334.36
15	NadiIngalgaon	16.646961, 74.997551	5070	202.8
16	Darur	16.637928, 75.021071	5681	227.24
17	Halyal	16.641507, 75.022056	5169	206.76
18	Avarkhod	16.630357, 75.030256	3437	137.48
19	Khavatakoppa	16.596084, 75.038497	3484	139.36
20	Shegunshi	16.572303, 75.053860	5793	231.72
21	Satti	16.568606, 75.077527	9984	399.36
22	Nadeshwar	16.545675, 75.092835	5784	231.36
23	Janawad	16.552266, 75.161556	3558	142.32
24	Savadi	16.589390, 75.157020	7977	319.08
25	Shirhatti	16.365374, 75.123295	5726	229.04
26	Zunjarwadi	16.37865, 75.132367	4062	162.48

Note: Insitu treatment proposal is under planning stage.

Status of Water Quality of River – Krishna in year 2020-21

Sl. No	Year	Locations	pH	BOD	Dissolved Solids	Conductivity	COD	Oil and Grease
1	2020-21	Halyal	8.08	2.94	760	1198	36	BDL
2		Avarkhod	8.34	2.71	400	645	32	BDL
3		Darur	8.14	3.08	400	647	40	BDL
4		Sapatsagar	8.26	2.46	360	595	28	BDL
5		NadiIngalgaon	8.36	2.83	400	648	40	BDL
6		Khavatakoppa	8.31	2.46	360	580	32	BDL
7		Shegunshi	8.42	2.34	480	760	28	BDL

Sl.No	Year	Locations	pH	BOD	Dissolved Oxygen	Dissolved Solids	Conductivity	COD	Oil and Grease	Total Coliforms	Fecal Coliforms
1	2020-21	Satti	8.47	1.26	7.8	520	818	16	BDL	920	540
2		Nandeshwar	8.31	0.54	8.3	600	940	12	BDL	920	540
3		Janawad	8.23	4.38	7.4	640	991	52	BDL	1600	920
4		Savadi	8.41	3.42	7.6	680	1068	40	BDL	1600	920
5		Shirahatti	8.31	0.78	8.3	640	998	28	BDL	920	540
6		Zunjarwad	8.25	0.9	7.2	640	1000	28	BDL	920	540

Sl. No	Year	Locations	pH	BOD	DO	DS	Conductivity	COD	O & G	TC	FC
1	2020-21	Avarkhod	8.31	1.8	6.7	640	1010	24	BDL	920	540
2		Agrani	8.24	2.1	5.7	480	768	28	BDL	920	540
3		Kavatakoppa	8.2	20.7	4.8	480	760	36	BDL	1600	920
4		NadiIngalgaon	8.11	2.17	4.3	560	880	36	BDL	1600	920
5		Hulagaballi	8.35	1.5	5.5	480	764	32	BDL	920	540
6		Halyal	7.97	6.15	1.8	680	1068	72	BDL	3200	1840
7		Shegunshi	8.26	1.5	5.8	480	758	24	BDL	1600	920
8		Darur	8.13	1.86	5.7	480	762	28	BDL	1600	920
9		Saptsagar	8.56	1.74	5.9	520	838	12	BDL	1600	920

Sl.No	Year	Locations	pH	BOD	DO	DS	Conductivity	COD	O & G	TC	FC
1	2022-23	Halyal	7.88	3.9	3.1	480	768	36	BDL	1600	920
2		NadiIngalgaon	7.84	2.7	1.9	560	877	28	BDL	1600	920
3		Satti Nala	7.75	7.5	1	560	876	72	BDL	1600	920
4		Kavatakoppa	7.83	5.7	2.1	440	702	64	BDL	1600	920
5		Shegunshi	7.67	6.9	1.2	560	878	100	BDL	1600	920
6		Nandeshwar	7.87	2.7	3.9	280	458	68	BDL	1600	920
7		Janawad	7.7	11.4	2.6	360	590	116	BDL	3200	1840
8		Savadi Nala	7.72	15	1.5	400	638	140	BDL	3200	1840

Sl.No	Year	Locations	pH	BOD	DO	DS	Conductivity	COD	O & G	TC	FC
1	2022-23	Confluence point Zunjarwad Nala & Krishna River	7.79	8.32	3.6	560	894	80	BDL	1600	920
2		Confluence point Sapthasagar & Krishna River	7.8	5.47	4	520	835	60	BDL	1600	920
3		Confluence point Shirahatti Nala & Krishna River	7.84	7.57	4.8	480	764	68	BDL	1600	540

Annexure-IV

Status of Ground Water Quality in the villages located on the polluted stretch of River – Krishna

Sl. No.	Grama panchayath	Village/ habitation	Type of source (bw/ surface well/ filter)	Ph value(013)	Turbidity(001)	Total dissolved solids (TDS) (015)	Total Alkalinity	Nitrate(006)	Fluoride(003)	Chloride(005)	Total alkalinity(018)	Total hardness(016)	Sulphate(007)	Calcium	Magnesium
								As no3	As(f)	(as cl)	Ascaco3	As caco3	(as so4)	As Ca	As Mg
				6.5-8.5	(NTU)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
					(1-5)	500-2000	200-600	45-n.r.	1.0-1.5	250-1000	200-600	200-600	200-400	75-200	30-100
1	Hutti Notified Area	Hutti	bw	8.10	8	610	224	0.96	1.28	114	224	216	160	53	20

Sl.no.	Gramapanchayath	Village/ habitation	Type of source (bw/ surface well/ filter)	Ph value(013)	Turbidity(001)	Total dissolved solids(015)	Electrical conductivity (e.c.)	Nitrate(006)	Fluoride(003)	Chloride(005)	Total alkalinity(018)	Total hardness(016)	Free residual chlorine(017)	Sulphate(007)	Total iron(004)
								As no3	As(f)	(as cl)	Ascaco3	As caco3		(as so4)	(as fe)
								(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
				6.5-8.5	(1-5)	500-2000		45-n.r.	1.0-1.5	250-1000	200-600	200-600	0.2-1.0	200-400	1.0-n.r.
1	Kallol	Kallol	Bw	7.32	0.05	490	820	11	0.15	130	212	276	0.00	30	0.16
2	Yadur	Yadur	Bw	7.35	0.05	600	980	14	0.58	130	236	336	0.00	48	0.1
3	Ankali	Ankali	Bw	7.67	0.05	400	670	10	0.23	46	284	296	0.00	40	0.05
4	Bavansavad	Savadatt	Bw	7.89	0.10	510	920	20	0.15	178	132	206	0.00	64	0.10

	atti	i													
5	Diggewadi	Diggewadi	Serface	7.85	0.05	420	840	23	0.06	166	188	238	0.04	112	0.07
6	Chinchali	Chinchali	Bw	7.86	0.05	560	930	28	0.23	202	368	232	0.00	54	0.01
7	Kusnal	Malawad	Bw	7.20	0.05	2130	4060	6	0.62	700	680	880	0.00	410	0.11
8	Krishna kittur	K kittur	Bw	7.16	0.05	1385	2560	15	0.78	448	360	560	0.00	250	0.12
9	Shirgur	Shirgur	Bw	7.42	0.05	1070	1980	42	0.14	338	222	448	0.00	152	0.10
10	Saptasagar	Ssaptasagar	Bw	8.44	0.1	1540	2750	12	0.21	532	400	560	0.00	310	0.14
11	Parthanalli	Agrani	Bw	6.79	1.0	840	1680	19	0.55	320	380	240	0.00	192	0.09
12	Hulagbali	Hulagbali	Bw	8.12	0.05	1240	2210	18	0.45	336	400	520	0.00	266	0.21
13	Nadiingalgon	Nadiingalgon	Bw	8.35	0.1	1680	2900	12	0.44	560	520	640	0.00	320	0.21
14	Darur	Darur	Bw	8.16	0.1	900	1420	11	0.21	224	320	480	0.00	120	0.28
15	Halyal	Halyal	Bw	7.93	0.05	1290	2270	19	0.57	420	280	480	0.00	283	0.08
16	Naganurp.k	Awarkhod	Bw	8.08	0.1	1150	2320	17	0.45	448	520	480	0.00	108	0.16
17	Shankarahatti	Kavatko ppa	River	9.11	1	970	1785	15	0.22	336	440	480	0.00	84	0.2
18	Shegunashi	Shegunashi	Bw	7.8	0.05	1950	3590	24	0.26	616	640	760	0.00	378	0.21
19	Satti	Satti	Bw	7.59	0.10	2370	4500	8	0.37	900	500	1020	0.00	230	0.29

20	Nandeshwar	Nandes hwar	Bw	7.6	0.1	1100	1835	5	0.34	252	240	520	0.00	224	0.21
21	Mahishwadg i	Janawad	Bw	8.29	0.1	1284	2260	14	0.25	474	640	520	0.00	170	0.16
22	Savadi	Savadi	Bw	7.57	0.1	2990	5020	21	0.53	1036	560	1280	0.00	392	0.1
23	Shirahatti	Shirahat ti	Bw	7.26	0.10	2100	3980	22	0.37	672	500	840	0.00	400	0.07
24	Jhunjurwad	Jhunjur wad	Bw	7.61	0.10	1465	2750	18	0.61	532	374	640	0.00	194	0.07

National Mission for Clean Cauvery

Format for submission of Monthly Progress Report in the NGT Matter OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020) For the State of Karnataka

Name of the River	River Lakshmantheertha
Polluted river stretch	Hunsur to Kattemalavadi
Priority	V
Status as on	March 2024

Overall status of the State:

	Particulars	CMC Hunsur
I.	Total Population: Urban Population & Rural Population separately	50850
II.	Estimated Sewage Generation (MLD):	5.5 MLD

III. Details of Sewage Treatment Plant:

	Particulars	CMC Hunsur
	Existing no. of STPs and Treatment Capacity (in MLD):	3.91 MLD
	Capacity Utilization of existing STPs:	3.91 MLD
	MLD of sewage being treated through Alternate technology:	0
	Gap in Treatment Capacity in MLD:	1.59 MLD
	No. of Operational STPs:	1
	No. of Complying STPs:	0
	No. of Non-complying STPs:	1

Details of each existing STP in the State

Name of the Local Body	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
CMC Hunsur	Kalukunike Village, Hunsur Taluk	3.91 MLD	3.91 MLD	Operational	Not Complied

Details of under construction STPs in the State

Name of the Local Body	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
CMC Hunsur	Kalukunike Village, Hunsur Taluk	Nil	Nil	50% house hold connections is completed & remaining works is under progress DPR for Rs. 80.0 Crores is prepared for laying UGD network for new extensions & to upgrade the existing STP to SBR Technology.	31-03-2021

Details of proposed STPs in the State

Name of the Local Body	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
CMC Hunsur	Kalukunike Village, Hunsur Taluk	Up gradation of existing 3.91 MLD + 4.09 MLD. STP	Revised DPR is prepared by KUWS&DB, Mysuru Division for Rs. 26.80 Crores to divert the sewage discharged in to river through storm water drain by providing additional 2 Nos. of wetwell for 2 drains. Upgradation of existing UGD networks. Upgradation of existing STP 3.91 MLD to 8.0 MLD with SBR Technology. DPR is approved and upgradation work is under progress.	March - 2021

IV. Details of Industrial Pollution:

Particulars	CMC Hunsur
No. of industries in the State:	7 Nos.
No. of water polluting industries in the State:	4
Quantity of effluent generated from the industries in MLD:	0.019 MLD
Quantity of Hazardous Sludge generated from the Industries in TPD:	0.007572 TPD
Number of industrial units having ETPs:	4Nos
Number of industrial units connected to CETP:	0
Number and total capacity of ETPs (details of existing/ under construction / proposed)	No. of ETP-4, Capacity-0.019 Under construction-0, Capacity-0 Proposed-0. Capacity-0
Compliance status of the ETPs:	Complied
Number and total capacity of CETPs (details of existing/ under construction / proposed)	0

Status of compliance and operation of the CETPs

Town	No. of industries	Industrial Discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
CMC Hunsur	Not Applicable			

V. Solid Waste Management:

Particulars	CMC Hunsur
Total number of Urban Local Bodies and their Population	50850
Current Municipal Solid Waste Generation	23 TPD
Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), biomethanation, MRF etc	• Composting Existing – 9.43 Gap – Nil • Sanitary landfill Existing–Nil Gap – 5.52
Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)	DPR for Rs. 1.76 Crores is approved to provide compost plant & sanitary land fill site & the same is to be undertaken. At present the solid waste is dumped in the site without any treatment.
No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)	0
Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source	• Door to door collection 31/31 Wards.
Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)	Segregationpractice-20 Wards
No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills	Nil
No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers	NIL
No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers	Nos. of drains 2 Nos. of drains having floating racks / screen – Nil

Status of ULB wise Management of Solid Waste

Name of the ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
CMC Hunsur	23	10	1	10	DPR for Rs. 1.76 Crores is approved for processing of entire MSW & currently work is assigned to contractor is going on.

VI. Bio-medical Waste Management:

Particulars	CMC Hunsur
Total Bio-medical generation:	0.1597 Kg/day
No. of Hospitals and Health Care Facilities:	Bedded: 18 Non Bedded: 50
Status of Treatment Facility/ CBMWTF:	CBMWTF

VII. Hazardous Waste Management:

Particulars	CMC Hunsur
Total Hazardous Waste generation:	0.007575 TPA
No. of Industries generating Hazardous waste	3Nos
Treatment Capacity of all TSDFs	NA
Avg. Quantity of Hazardous waste reaching the TSDFs and Treated	NA
Details of on-going or proposed TSDF	NA

VIII. Plastic Waste Management:

Particulars	CMC Hunsur
Total Plastic Waste generation:	0.45 TPD
Treatment/ Measures adopted for reduction or management of plastic waste:	Nil

Particulars	CMC Hunsur
IX. Details of Alternate Treatment Technology being adopted by the State/UT	-
X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment:	2 drain is identified & monitored & the drain is yet to be connected.
XI. Details of Nodal Officer appointed by Chief Secretary in the State/UT:	--
I. Details of meetings carried under the Chairmanship Chief of Secretary in the	--

State/UT:	
II. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;	Status of water quality of polluted rivers in Annexure-1.
III. Ground water regulation:	As per the District Ground water Authority data submitted for the year 2020 in their Hand Book CMC Hunsur comes under safer zone as per ground water resources assessment and there is no over exploitation of ground water in the region.
IV. Good irrigation practices being adopted by the State:	---
V. Rain Water Harvesting:	Rain water harvesting is made mandatory for new constructions, CMC has taken up awareness programmes to educate the people about river flooding during Monsoon
VI. Demarcation of Floodplain and removal of illegal encroachments:	During the month of September Paper advertisements were issued to the residents located on the banks on the river Lakshmanatheertha about flooding by CMC and early warning arrangement in consultation with revenue department from Cauvery Neeravari Nigam Ltd is carried out
VII. Maintaining minimum e-flow of river:	Flow data of Hydrological observation Sites is available in Central water commission Website and further implementation from irrigation department will be initiated
VIII. Plantation activities along the rivers:	As of now there are no plantations on the banks of river Lakshmantheertha in the polluted stretch since the area is confined to CMC limit
IX. Development of biodiversity park:	As of now, there are no Bio diversity parks in this stretch
X. Reuse of Treated Water:	--
XI. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:	--
XII. Status of Preparation of Action Plan by the 13 Coastal States:	NA
XIII. Regulation of Mining Activities in the State/UT:	Nil
XIV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring	Nil
XV. Overall progress of the month: Please provide overall progress achieved in terms of all the above points compared to previous month.	a) With respect to treatment & disposal of sewage effluent the LB's have taken steps to operate the existing STPs & action plan for up gradation of the existing STPs is being prepared by KUWS&DB & the same is approved by the Government. b) With respect to Solid Waste Management by Municipalities, steps have been taken process the Solid Waste with the existing compost facilities and works followed by tendering for

	expanding the same along with sanitary land fill sites construction are under progress. c) District level meeting on Polluted river stretches was held on 3-3-2021 under the Chairmanship of Minister C.P Yogeshwar. As per the directions of Minister Local Bodies were directed to use the available funds of the CMC to divert the Missing links of sewage to STP d) As per the proceedings of the meeting conducted on 24.09.2021 under the chairmanship of Hon`ble Subhash Adi Former Judge, High Court of Karnataka and Upa Lokayuktha, Government of Karnataka and Chairperson National Green Tribunal State Level Committee Karnataka Constituted by Hon`ble NGT in OA No 606/2018 , “the missing links sewage effluent discharged into storm water drain shall be diverted to nearby STPs /Wet wells by providing interception and diversion system by adopting low cost treatment facilities” the same is communicated to ULB`s for further action. e) DPR approved by the Government to divert the sewage discharge into river through storm water drain by providing additional 2 Nos. of wetwell for 2 drains, Upgradation of existing STP 3.91 MLD to 8 MLD with SBR technology and UGD networks for Rs. 26.8 Crores. f) Short term tender notification has been called by the KUWS&DB through E-procurement portal tender no: KUWSDB/2021-22/WS/WORK_INDENT2943 on 06-04-2021 with respect to rejuvenation of UGD systems, construction/ upgradation of STPs, providing sewer networks and outfall sewer lines, construction of wetwells, providing rising mains and other related works along with operation and maintenance of STPs as per NGT directions. Qualified tender agencies proposal has to be placed for technical evaluation committee for approval. g) The tender of Rs. 20,12,49,000/- has been assigned to M/s Akhil Infra Projects Pvt Ltd, Ballari on 31-12-2021 for the work of “ Providing/Rejuvenation of UGD scheme to Hunsur city as per NGT standards including O&M for 5 years. h) Upgradation of existing STP 3.91 MLD to 8 MLD with SBR technology and UGD networks work is under progress.
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**Environmental Officer
RO-2, Mysuru (Rural)**

Annexure-1

XIII Status of Water Quality Assessment of polluted rivers in Annexure-1

Sl. No.	Location	Year	DO(mg/l)	BOD(mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)
1	D/S of Lakshmantheertha in New road bridge of Bengaluru-Bhantwala Road at Hunsur town	Mar-24	As there was no water flow, samples were not collected during the month of March			
2	D/S of Lakshmantheertha at water barrage near Kattemalalavadi Village	Mar-24				

**Environmental Officer
RO-2, Mysuru(Rural)**

National Mission for Clean Cauvery

Format for submission of Monthly Progress Report in the NGT Matter OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020) For the State of Karnataka

Name of the River	Kabini
Polluted river stretch	Nanjangud to Hejjige
Priority	V
Status as on	March 2024

Overall status of the State:

	Particulars	CMC Nanjangud
I.	Total Population: Urban Population & Rural Population separately	50137
II.	Estimated Sewage Generation (MLD):	5.41

III. Details of Sewage Treatment Plant:

Particulars	CMC Nanjangud
Existing no. of STPs and Treatment Capacity (in MLD):	7
Capacity Utilization of existing STPs:	2
MLD of sewage being treated through Alternate technology:	Nil
Gap in Treatment Capacity in MLD:	3.41
No. of Operational STPs:	1
No. of Complying STPs:	1
No. of Non-complying STPs:	Nil

Details of each existing STP in the State

Name of the Local Body	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
CMC Nanjangud	Sy. No. 24/1, Golur Village, Nanjangud Taluk	7 MLD	2 MLD	Operational	Complied

Details of under construction STPs in the State

Name of the Local Body	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
CMC Nanjangud	Sy. No. 24/1, Golur Village, Nanjangud Taluk	Nil	Nil	60% house hold connections is completed & remaining works is under progress. DPR for Rs. 36.86 Crores is approved for laying UGD network for new extensions & to upgrade the existing STP to SBT Technology. Work is under progress.	31-03-2021

Details of proposed STPs in the State

Name of the Local Body	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
CMC Nanjangud	Sy. No. 24/1, Golur Village, Nanjangud Taluk	Nil	DPR is approved for Rs.36.86 crores for up gradation of SBT Technology. Work is under progress.	31.03.2021

IV. Details of Industrial Pollution:

Particulars	
No. of industries in the State:	38
No. of water polluting industries in the State:	38
Quantity of effluent generated from the industries in MLD:	9.03
Quantity of Hazardous Sludge generated from the Industries in TPD:	Nil
Number of industrial units having ETPs:	38
Number of industrial units connected to CETP:	Nil
Number and total capacity of ETPs (details of existing/ under construction / proposed)	No. of ETP-38, Capacity-9.43 Under construction-0, Capacity-0 Proposed-0. Capacity-0
Compliance status of the ETPs:	Complied
Number and total capacity of CETPs (details of existing/ under construction / proposed)	Nil

Status of compliance and operation of the CETPs

Town	No. of industries	Industrial Discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
CMC Nanjangud	NIL	NIL	NIL	NIL

V. Solid Waste Management:

Particulars	CMC Nanjangud
Total number of Urban Local Bodies and their Population	50137
Current Municipal Solid Waste Generation	26 TPD
Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), bimethanation, MRF etc	Compost Plant around 6 TPD.
Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)	Composting gap Existing-6 TPD, Gap-4.66 TPD Sanitary landfill site Existing- Nil, Gap-6.24 TPD
No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)	Nil
Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source	31 wards, all are with door to door collection and source segregation is practiced in 24 wards.
Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)	DPR for Rs. 5.16 Crores is approved to provide sanitary land fill site to dispose 6.24 TPD of rejects and around 9.1 TPD of Dry Waste is segregated and sold in the Market. Proposals for providing 10 TPD compost plant is to be prepared & got it approved. The work of construction of sanitary landfill site is in progress.
No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills	NIL
No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers	NIL
No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers	5 nos. of drains out of which 2 drains are connected to nearby wet well and 3 drains works are yet to be undertaken.

Status of ULB wise Management of Solid Waste

Name of the ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
CMC Nanjangud	26	6	1	6	31.03.2021.

Bio-medical Waste Management:

Particulars	CMC Nanjangud
Total Bio-medical generation:	0.217 Kg/day
No. of Hospitals and Health Care Facilities:	Bedded: 35 Non Bedded: 50
Status of Treatment Facility/ CBMWTF:	CBMWTF

VI. Hazardous Waste Management:

Particulars	CMC Nanjangud
Total Hazardous Waste generation:	22117 TPA
No. of Industries generating Hazardous waste	10
Treatment Capacity of all TSDFs	Nil
Avg. Quantity of Hazardous waste reaching the TSDFs and Treated	4888 TPA
Details of on-going or proposed TSDF	Nil

VII. Plastic Waste Management:

Particulars	CMC Nanjangud
Total Plastic Waste generation:	4 TPD
Treatment/ Measures adopted for reduction or management of plastic waste:	Nil

Particulars	CMC Nanjangud
VIII. Details of Alternate Treatment Technology being adopted by the State/UT	-
IX. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment:	06 drains identified and monitored periodically

X.	Details of Nodal Officer appointed by Chief Secretary in the State/UT:	-
I.	Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:	-
II.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;	Status of water quality of polluted rivers in Annexure-1.
III.	Ground water regulation:	As per the District Ground water Authority data submitted for the year 2020 in their Hand Book CMC Nanjangud comes under safer zone as per ground water resources assessment and there is no over exploitation of ground water in the region.
IV.	Good irrigation practices being adopted by the State:	The Dept. of Agriculture has submitted action plan for implementation of following measures: I. General Government Practice of Irrigation is maintained. II. Farmers are made aware to use water optimally.
V.	Rain Water Harvesting:	Rain water harvesting is made mandatory for new constructions, CMC has taken up awareness programmes to educate the people about river flooding during Monsoon
VI.	Demarcation of Floodplain and removal of illegal encroachments:	Nil
VII.	Maintaining minimum e-flow of river:	Flow data given by Chief Engineer CNNL Irrigation South Mysore, Cauvery Neeravari Nigama Limited wrt daily Gauge report of Kabini. As per the report the inflow of the Kabini river is 1707 cusecs as on 04.12.2021
VIII.	Plantation activities along the rivers:	As of now there are no plantations on the banks of river Kabini in the polluted stretch since the area is confined to CMC limit
IX.	Development of biodiversity park:	As of now, there are no Bio diversity parks in this stretch
X.	Reuse of Treated Water:	--
XI.	Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:	--
XII.	Status of Preparation of Action Plan by the 13 Coastal States:	NA
XIII.	Regulation of Mining Activities in the State/UT:	Nil
XIV.	Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring	Nil
XV.	Overall progress of the month:	a) With respect to treatment & disposal of sewage effluent the LB has taken steps to operate the

Please provide overall progress achieved in terms of all the above points compared to previous month.

- existing STPs & action plan for up gradation of the existing STPs is being prepared by KUWS&DB & the same is yet to be approved by the Government.
- b) With respect to Solid Waste Management by Municipalities, steps have been taken process the Solid Waste with the existing compost facilities and works followed by tendering for expanding the same along with sanitary land fill sites construction are under progress.
 - c) District level meeting on Polluted river stretches was held on 3-3-2021 under the Chairmanship of Minister C.P Yogeshwar. As per the directions of Minister Local Bodies were directed to use the available funds of the CMC to divert the Missing links of sewage to STP
 - d) Short term tender notification has been called by the KUWS&DB through E-procurement portal tender no: KUWSDB/2021-22/WS/WORK_INDENT2943 on 06-04-2021 with respect to rejuvenation of UGD systems, construction/ upgradation of STPs, providing sewer networks and outfall sewer lines, construction of wetwells, providing rising mains and other related works along with operation and maintenance of STPs as per NGT directions
 - e) As per the proceedings of the meeting conducted on 24.09.2021 under the chairmanship of Hon`ble Subhash Adi Former Judge, High Court of Karnataka and Upa Lokayuktha, Government of Karnataka and Chairperson National Green Tribunal State Level Committee Karnataka Constituted by Hon`ble NGT in OA No 606/2018 , “Missing links sewage effluent discharged into storm water drain shall be diverted to nearby STPs /Wet wells by providing interception and diversion system by adopting low cost treatment facilities”, the same is communicated to ULB’s for further action.
 - f) Flow data given by Chief Engineer CNNL Irrigation South Mysore, Cauvery Neeravari Nigama Limited wrt daily Gauge report of Kabini. As per the report the inflow of the Kabini river is 1707 cusecs as on 04.12.2021
 - g) DPR approved by the Government for laying UGD network for new extensions & to upgrade the existing STP for Rs. 36.86 Crores.
 - h) The tender of Rs. 2731,13,999.00/- has been accepted from M/s Akhil Infra Projects Pvt Ltd, Ballari on 31-12-2021 for the work of “ Providing/Rejuvenation of UGD scheme to Nanjangud city as per NGT standards including O&M for 5 years
 - i) STP Up gradation to SBT Technology **Work is under progress.**

Environmental Officer
RO-2, Mysuru(Rural)

Annexure-1

XIII Status of Water Quality Assessment of polluted rivers in Annexure-1

Sl. No.	Particulars of sampling locations as per NWMP	Year	DO(mg/l)	BOD(mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)
1	D/s of Kabini at Nanjangud Water Supply Intake Point near Debur	Mar-24	6.8	2	150	1200
2	D/S of Kabini from KIADB W/s Intake Point Kallahalli	Mar-24	6.9	2	93	840
3	D/s of Kabini near Bathing Ghat, Nanjangud	Mar-24	5.8	5	240	2100

****As per the CPCB classification the river water sample false under Class “C” – Drinking Water Source with conventional treatment followed by disinfection.**

**Environmental Officer
RO-2, Mysuru(Rural)**

National Mission for Clean Ganga

Format for submission of Monthly Progress Report in the NGT Matter OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020)

For the State of Karnataka (Netravathi)

Overall status of the State: KARNATAKA (Dakshina Kannada)		
Name of The River		Netravathi
Polluted River Stretch		Netravathi
Priority		Priority - V
Status as on		MARCH -2024
Overall status of the State:		
I	Total Population : Urban Population & Rural Population Separately	55,073 (As per 2011 census) <i>(The Population is considered within the polluted river stretch of length 50KM)</i>
	Urban Population	47,901
	Rural Population	7,172
II	Estimated Sewage Generation (MLD):	5.95 MLD
III Details of Sewage Treatment Plant		
Existing no. of STPs and Treatment Capacity (in MLD)		There are no Existing STPs in jurisdiction of Bantwala and Belthangady TMC. The Bantwala TMC has taken up construction work of providing UGD and the work is under progress
Capacity Utilization of existing STPs		NA
MLD of sewage being treated through Alternate technology		NA
Gap in Treatment Capacity in MLD: No. of Operational STPs:		Since there are no STPS, there is a need to establish STP of adequate capacity to treat the total quantity of sewage (i.e 5.95 MLD) generated from these local bodies.
No. of Complying STPs:		NA
No. of Non-complying STPs:		NA

Details of each existing STP in the State

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
Not Applicable					

Details of under construction STPs in the State

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
NIL					

Details of proposed STPs in the State

No.	Location	Capacity of the	Status of Project	Likely Date of
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		STP proposed in MLD	(at DPR Stage/ Under Tendering/ Work to be Awarded)	Completion
Nil				

<u>IV Details of Industrial Pollution</u>	
No. of industries in the State (D.K District)	There are no water generating industries within the purview of local bodies situated on the bank of Netravathi River (on the identified polluted river stretch)
No. of water polluting industries in the State	NA
Quantity of effluent generated from the industries in MLD	NA
Quantity of Hazardous Sludge generated from the Industries in TPD	NA
Number of industrial units having ETPs	NA
Number of industrial units connected to CETP	NA
Number and total capacity of ETPs (details of existing/ under construction / proposed)	NA
Compliance status of the ETPs	NA
Number and total capacity of CETPs (details of existing/ under construction / proposed)	There are no CETP's in the Local bodies situated on the polluted River Stretches.
Status of compliance and operation of the CETPs	NA

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
Not applicable				

V Solid Waste Management										
Total number of Urban Local Bodies and their Population										
The total number of Urban Local Bodies on the bank of Netravathi River along with the population are submitted as below;										
<table><tr><th>Sl No</th><th>Local Bodies</th><th>Population</th></tr><tr><td>1</td><td>Town Municipal council, Bantwala, Dakshina Kannada District.</td><td>40155</td></tr><tr><td>2</td><td>Town Panchyath, Belthangadi Taluk, Dakshina Kannada District</td><td>7746</td></tr></table>		Sl No	Local Bodies	Population	1	Town Municipal council, Bantwala, Dakshina Kannada District.	40155	2	Town Panchyath, Belthangadi Taluk, Dakshina Kannada District	7746
Sl No	Local Bodies	Population								
1	Town Municipal council, Bantwala, Dakshina Kannada District.	40155								
2	Town Panchyath, Belthangadi Taluk, Dakshina Kannada District	7746								
Current Municipal Solid Waste Generation	13.89 MT/day									
Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), Bio-methanation, MRF etc	• The local bodies are practicing the system of door to door collection of segregated municipal solid waste. • The dry recyclable waste such as Paper, wood, Glass etc are being segregated and sent to recyclers.									

Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)	All local bodies have submitted action plan with time line to bridge gap between Installed Capacity and Current Utilization of processing facilities through District environmental plan as per the NGT Order w.r.t O.A.360 of 2018.
No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)	There are no C&D waste processing plants.
Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source	Total No. of wards-38 Door to Door Collection-35 Segregation at Source-23 (As submitted by ULBs in DEP)
Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)	Nil
No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills	Nil
No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers	Nil
No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers	7

Status of ULB wise Management of Solid Waste

ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
Bantwala TMC	14	12.2	- Windrows System is adopted for management of wet waste - Management of Material Receiving Facility for dry waste recycling.	100%	There are no Proposed MSW Facilities in this jurisdiction.

VI Bio-medical Waste Management

Total Bio-medical generation:	180 Kg/day
No. of Hospitals and Health Care Facilities	132
Status of Treatment Facility/ CBMWTF	The Bio medical Waste generated from hospitals and HCEs are being handed over to CBMWTF facility provided by M/s. Ramky Enviro Tech Pvt. Ltd., Mulki, D.K. and M/s. Ayush Enviro tech Pvt. Ltd., Padubidre Udupi further treatment and disposal

VII Hazardous Waste Management

Total Hazardous Waste Generation	Nil
No of Industries Generating Hazardous Waste	Nil
Treatment Capacity of all TSDFS	There are No TSDF facility proposed in the jurisdiction of RO-Mangalore. The Hazardous waste generated in the District is being sent to TSDF, situated at Bangalore for final treatment & disposal. the other facility like incinerators, Co-processors & Recyclers across the state are also being used for treatment & disposal of Hazardous waste generated from the industries.
Average Quantity of Hazardous Waste reaching the TSDFS and treated	
Details of on-going or proposed TSDF	

<u>VIII Plastic Waste Management</u>		
	Total Plastic Waste generation	382 MT/A
	Treatment/ Measures adopted for reduction or management of plastic waste	- The Single use plastic is totally banned in Karnataka as per GoK Notification No: No. FEE/17EPC2012, Bangalore, dated: 11-03-2016. - There are two waste plastic reprocessing industries in the jurisdiction of RO-Mangalore.
IX	Details of Alternate Treatment Technology being adopted by the State/UT	NA
X	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment	- In the ULB limit most of individual houses are have provided ST & SP for treatment of domestic sewage generated from individual houses. - Revised river rejuvenation action plan submitted on 08.05.2020 with directions to all the stakeholder for complying with the direction issued in the District Level Special Surveillance Task Force(DLSETF) - Proposal for providing Underground drainage system in all areas with terminal STP for 100% treatment of waste water. - Untreated sewage entering in to the rivers should be reduced by laying the drainage network & connecting the domestic sewage in to the terminal sewage treatment plant. - To install STP's for treatment of domestic sewage and scientific disposal facilities for solid waste generated from the villages & town located on the bank of Netravathi River
XI	Details of Nodal Officer appointed by Chief Secretary in the State/UT	NA
XIII	Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:	NA
XIII	Latest water quality of polluted river, its tributaries, drains with	Attached as Annexure

	flow details and ground water quality in the catchment of polluted river;	
XIV	Ground water regulation	The industry authorities are directed to obtain NOC from State/ District Ground water Authority as applicable.
XV	Good irrigation practices being adopted by the State	NA
XVI	Rain Water Harvesting	During the District Level meeting of DLSESTF a directions were given from District Commissioner to all the Concerned Departments to implement the Comprehensive Rain Water System and submit an action taken report.
XVII	Demarcation of Floodplain and removal of illegal encroachments	Directions have been given to Forest Department and Revenue Department to submit details about flood plain zone and to carry out massive plantation and also to notify the Flood Plain Zone (FPZ).Gazing station at Bantwala through District Environmental Plan (DEP)
XVIII	Maintaining minimum flow of river	During the District Level meeting of DLSESTF a directions was given from District Commissioner to all the Concerned Departments to maintaining minimum flow of river and submit an action taken report.
XIX	Plantation activities along the rivers	During the District Level meeting of DLSESTF a directions was given from District Commissioner to all the Concerned Departments to take up Plantation activities along the rivers and submit an action taken report.
XX	Development of biodiversity park	NA
XXI	Reuse of Treated Water	Treated sewage will be reused once STP put into operation.
XXII	Model River being adopted by the State & Action Proposed for achieving the bathing quality standards	If the State identifies the model river, the Action Proposed for achieving the bathing quality standards the directions will be followed.
XXIII	Status of Preparation of Action Plan by the 13 Coastal States	Submitted. Copy of Coastal plan enclosed. Information furnished in the prescribed format for OA No. 829/2019 vide letter dated: 03.01.2020.
XXIV	Regulation of Mining Activities in the State/UT	Regulated by Department of Mines and Geology.
XXV	Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring	Nil
XXVI	Please provide overall progress achieved in terms of all the above points compared to previous month ➤ Effective implementation of Door to Door collection of solid waste is being done by the ULBs. ➤ The household plastic waste is collected and handed over to Authorized plastic waste	

	recyclers. ➤ TMC Bantwala has started processing their wet waste through windrows composting. ➤ This office has issued notices to all the urban local bodies to identify site for establishing C&D waste processing facility and obtain the Authorization under C&D Waste management Rules, 2016. ➤ The Meeting of District Level Special Task Force (STF) was held on 29.12.2021 under the Chairmanship of Deputy Commissioner, D.K (Meeting conducted by Sri Channabasappa, ADC, D.K District) to review the progress with respect to implementation Solid Waste Management Rules 2016. ➤ In view of the declaration of Dharmastala No Plastic City by Govt of India the meeting was convened with all the State holder who are consuming/using single use plastic in their day to day activities. ➤ The meeting was attended by Hotel association, Gram Panchayath president, vice president, members, Officials from Zilla panchayath, Grama panchayath Officer, Shop/Commercial establishment, yathiri nivas, maintenance people personal, General publics, Karnataka State Pollution Control Board Officials and selected NGOs of Dharmastala who are engaged in solid waste management at Dharmastala. Each represented have submitted their action plan to be implemented by every State holder including General Public and Travelers for effective implication of ban of single use plastic in the City. ➤ 75 shops, Hotels, Tourist lodge within Gram Panchyat limit of Dharmastala were inspected on 23.11.2023 and upto 400 Kgs of plastics were seized and Rs 15400/- fine was levied on single use plastics ban violators. ➤ On 05.02.2024 Dharmasthal Gram Panchayath was declared as SUP Plastic free village by Hon'ble Minister of Forest, Ecology & Environmental Sri Eshwari Khandre and in presence Dr.D.Veerendra Heggade, Member of Parliament in Rajya Sabha.
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REGIONAL OFFICER (I/c)
KSPCB, MANGALURU



KARNATAKA STATE POLLUTION CONTROL BOARD

No 23& 24 4th cross,near ESI Hospital Industrial Area Baikampady Mangaluru 575011 Ph No: 0824-2408420

An ISO 9001:2015 and ISO 45001:2018 Certified Laboratory.

Date: 01/04/2024

ANALYSIS REPORT OF WATER QUALITY

ANALYSIS REPORT OF WATER QUALITY							
NAME OF THE INDUSTRY/LOCATION :		River water samples (MINARS)			DATE OF COMMENCEMENT OF TEST : 13.03.2024		
SAMPLE COLLECTED BY :		EO (IC) Mangaluru			DATE OF COMPLETION OF TEST : 25.03.2024		
DATE OF COLLECTION :		13.03.2024			SAMPLE REPORT NO: 623		
DATE OF RECEIPT :		13.03.2024			SAMPLE NO : 1224 - 1228		
SAMPLE NO & PARTICULARS OF SAMPLE COLLECTED:		1. River Nethravathi U/s of Darmasthala water supply intake point (1224). 2. River Kumaradhara U/s of Uppinangady town before confluence with Nethravathi river (1225). 3. River Nethravathi D/s of Bantwal town Mangalore water Supply Point (Minars)Thumbay (1226). 4. River Nethravathi U/s of Uppinangady town before confluence with Kumaradhara river (1227) 5. Pond water collected at Pilikula Tank (1228).					
S.NO	PARAMETERS	UNITS	Result				
			Sample No.1224	Sample No.1225	Sample No.1226	Sample No.1227	Sample No.1228
Station Code			1892	1894	3562	3563	3565
Catagory			B	B	B	B	C
1	pH	pH unit	7.6	7.7	7.6	7.8	7.8
2	Colour	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless
3	Odour	Odourless	Odourless	Odourless	Odourless	Odourless	Odourless
4	Temprature	°c	32	32	28	33	30
5	Turbidity	NTU	0.4	0.5	0.3	0.5	1.6
6	Dissolved Oxygen	mg/l	6.9	6.6	7	6.2	6.5
7	Total Alkalinity	mg/l	76	80	72	84	80
8	P.Alkalinity	mg/l	BDL	BDL	BDL	BDL	BDL
9	Counductivity	μohms/cm	149	154	150	170	170
10	TDS	mg/l	110	118	112	120	120
11	Total Fixed Solids	mg/l	20	22	20	24	24
12	Total Suspended Solids	mg/l	10	14	10	14	16
13	Hardness as CaCO ₃	mg/l	28	34	30	40	42
14	Calcium as CaCO ₃	mg/l	18	20	18	20	24
15	Calcium as Ca	mg/l	7	8	7	8	10
16	Magnesium as CaCO ₃	mg/l	10	14	12	20	18
17	Magnesium as Ca	mg/l	2	3	3	5	4
18	Chloride	mg/l	20	14	16	22	34
19	Sulphate	mg/l	9	15	6	22	27
20	Fluoride	mg/l	0.064	0.06	0.058	0.058	0.081
21	Nitrate	mg/l	1.2	1.2	1.1	1.2	1.9
22	Phosphate	mg/l	BDL	BDL	BDL	BDL	BDL
23	Sodium	mg/l	4	6	3	5	9
24	Potassium	mg/l	2	3	1	2	4
25	Boron	mg/l	BDL	BDL	BDL	BDL	BDL
26	COD	mg/l	21	24	18	24	28
27	BOD	mg/l	2	2	2	3	3
28	Ammonical Nitrogen	mg/l	BDL	BDL	BDL	BDL	BDL
29	TKN	mg/l	BDL	BDL	BDL	BDL	BDL
30	Coliform Total	MPN/100ml	280	350	220	430	540
31	Coliform Fecal	MPN/100ml	26	34	22	33	47

Note:1. The above results pertain only to the sample tested. 2. The method of analysis is as per the Standard Method for the examination of Water and Waste Water, APHA, AWWA, WPCF, USA and Indian Standard Publication: 3 BDL--- Below detection limit 4. DL*: Desirable Limits PL **: Permissible Limits (in the absence of alternate Source)

Scientific Assistant
ANALYSED BY

Scientific Assistant
VERIFIED BY

Authorised signatory
(Ravi S. Gali)
Scientific officer

National Mission for Clean Ganga
Format for submission of Monthly Progress Report in the NGT Matter OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020) For the State of Karnataka

Name of the River	SHIMSHA
Polluted river stretch	Yediyur to Halagur bridge
Priority	IV
Status as on	March- 2024

Overall status of the State:

Particulars		TMC Maddur
I.	Total Population: Urban Population & Rural Population separately	28,902
II.	Estimated Sewage Generation (MLD):	3.5

III. Details of Sewage Treatment Plant:

Particulars	TMC Maddur
Existing no. of STPs and Treatment Capacity (in MLD):	3.5 MLD
Capacity Utilization of existing STPs:	3.5 MLD
MLD of sewage being treated through Alternate technology:	-
Gap in Treatment Capacity in MLD:	Nil
No. of Operational STPs:	01
No. of Complying STPs:	01
No. of Non-complying STPs:	-

Details of each existing STP in the State

Name of the Local Body	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
TMC Maddur	Hole Anjanaiah swamy Temple Road, Maddur	3.5 MLD	3.5 MLD	Yes	Complied

Details of under construction STPs in the State:

Name of the Local Body	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I & D or House sewer connections	Completion Timeline
TMC Maddur	Hole Anjanaiah swamy Temple Road, Maddur	Up gradation of existing 3.5 MLD STP to 6.0 MLD with Aeration Technology	Revised DPR is prepared by KUWS&DB, Mandya Division for Rs. 50.15 Crores to divert the sewage discharged into river through storm water drain. Connecting household to UGD by 4000 houses & construction of 2 nos. of wet wells. Upgradation of existing 3.5 MLD STP to 6.0 MLD. The DPR is approved & work has been assigned to KUWS&DB by the Government. The tender is invited by KUWSSB for execution of the work.	• KUWS&DB has issued work order vide dtd on 15-04-2020 to contractor and 98 % of work is completed and 100% of work will be completed within 8 months. • Work order for extension of UGD networks in out growth area and extended area GAP analysis has done by KUWS&DB and proposal sent to Government and the same is yet to approval.	14-04-2022

Details of proposed STPs in the State

Name of the Local Body	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
TMC Maddur	Hole Anjanaiah swamy Temple Road, Maddur	Up gradation of existing 3.5 MLD STP to 6.0 MLD.	Revised DPR is prepared by KUWS&DB, Mandya Division for Rs. 50.15 Crores to divert the sewage discharged into river through storm water drain. Connecting household to UGD for 4000 houses & construction of 2 nos. of wet wells and Upgradation of existing 3.5 MLD STP to 6.0 MLD. • UP-gradation of 98 % of STP work is completed and 100% of work will be completed within 8 months.	14-04-2022

			• But other related works like laying network in extension area & household connection etc are 70 % completed & rest of the work will be completed shortly. • Work order for extension of UGD networks in out growth area and extended area GAP analysis has done by KUWS&DB and proposal sent to Government and the same is yet to approval.	
--	--	--	--	--

IV. Details of Industrial Pollution:

Particulars	TMC Maddur
No. of industries in the State:	1
No. of water polluting industries in the State:	1
Quantity of effluent generated from the industries in MLD:	2.9
Quantity of Hazardous Sludge generated from the Industries in TPD:	Nil
Number of industrial units having ETPs:	01
Number of industrial units connected to CETP:	-
Number and total capacity of ETPs (details of existing/ under construction / proposed)	2.9
Compliance status of the ETPs:	Complied
Number and total capacity of CETPs (details of existing/ under construction / proposed)	-

Status of compliance and operation of the CETPs:

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
TMC Maddur	-	-	-	-

V. **Solid Waste Management:**

Particulars	TMC Maddur
Total number of Urban Local Bodies and their Population	28,902
Current Municipal Solid Waste Generation	10 TPD
Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), bio-methanation, MRF etc	• Composting Existing – 0.0 Gap – 4.1 TPD • Sanitary landfill Existing–Nil Gap – 2.4 TPD • The 70 % of the wet waste is being composted at source level through home composting and 30 % is in a decentralized waste processing plant. • Dry waste is collected by the pourakarmikas and sold to scrap dealers.
Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)	DPR for Rs. 5.25 Crores is approved to provide compost plant & sanitary land fill site & the same is under progress. At present the solid waste is dumped in the site without any treatment. Civil works are under construction stage, vehicle procurement is completed, machineries are yet to be installed.
No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)	Land identification is in progress
Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source	• Door to door collection 23/23 Wards. • Segregation practice-18 Wards
Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)	DPR for integrated solid waste management is approved for 5.25 Crores, currently civil work is assigned to the contractor and 70 % of the work is completed.
No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills	3 acres, sanitary landfill is under construction
No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers	-
No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers	Nos. of drains - 1 Nos. of drains having floating racks / screen – Nil

Status of ULB wise Management of Solid Waste

Name of the ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
TMC Maddur	10	3.0	De centralized pit composting	3.0	DPR for Rs. 5.25 Crores (Civil work- 4 crore & vehicles 1.25 crores) with 12 % GST & work order for processing of entire MSW waste is issued on 23-03-2020 and currently the civil work is assigned to the contractor and about 70% of the work is completed.

a. Bio-medical Waste Management:

Particulars	TMC Maddur
Total Bio-medical generation:	81.7 Kg/day
No. of Hospitals and Health Care Facilities:	Bedded: 03 Non Bedded: 26
Status of Treatment Facility/ CBMWTF:	Disposed to CBMWTF (M/s. Maridi Eco Solutions)

b. Hazardous Waste Management:

Particulars	TMC Maddur
Total Hazardous Waste generation.	-
No. of Industries generating Hazardous waste	-
Treatment Capacity of all TSDFs	-
Avg. Quantity of Hazardous waste reaching the TSDFs and Treated	-
<u>Details of on-going or proposed TSDF</u>	-

c. Plastic Waste Management:

Particulars	TMC Maddur
Total Plastic Waste generation:	3.6 MTPD

Treatment/ Measures adopted for reduction or management of plastic waste:

Awareness programme was carried out to minimize the usage of plastic & regular raid will be carried out.

Particulars	TMC Maddur
VI. Details of Alternate Treatment Technology being adopted by the State/UT	-
VII. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment:	One drain is identified & monitored. The analysis reports of the same is awaited.
VIII. Details of Nodal Officer appointed by Chief Secretary in the State/UT:	-
IX. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:	-
X. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;	Status of water quality of polluted rivers in Annexure-1.
XI. Ground water regulation:	The ground water resources assessment is carried out on Taluka wise (Administrative Units) The State Govt. has taken up various Recharge/Water Conservation Schemes like for augmentation of ground water resources. In respect of semi critical area action plan will be executed with the District Administration to restore the Ground Water Table.
XII. Good irrigation practices being adopted by the State:	The Dept. of Agriculture has submitted action plan for implementation of following measures. • General Government Practice of Irrigation is maintained in the Maddur Tq. • Farmers are made aware to use water optimally.
XIII. Rain Water Harvesting:	The Department of Revenue and Irrigation have prepared District Disaster Management Plan for the Flood Plains of river Shimsha which is also covered under polluted river stretch. In order to overcome Flood Plains people of nearby villages are warned through early warning arrangement in consultation with revenue department. Further measures required for Flood Plain Management in the polluted river stretch will be implemented.
XIV. Demarcation of Flood plain and removal of illegal encroachments:	
XV. Maintaining minimum e-flow of river:	The Cauvery Neeravari Nigam Ltd., is requested to submit the action plan as per MoEF & CC norms during monsoon seasons and same is not yet submitted

XVI. Plantation activities along the rivers:	The Forest Department is requested submit the action for plantation of saplings on the banks of polluted river stretch of Shimsha and the same is not yet submitted
XVII. Development of biodiversity park:	As of now, there is one Bird Sanctuary in Kokkare bellur in Shimsha river stretch of Maddur Taluk. The Forest Department is requested to submit action plan for the proposed bio diversity parks and the same is not yet submitted. The status of the existing and proposed bio diversity parks and its implementations will be executed in coordination with the Forest Department.
XVIII. Reuse of Treated Water:	Treated water is used on land for irrigation.
XIX. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:	-
XX. Status of Preparation of Action Plan by the 13 Coastal States:	-
XXI. Regulation of Mining Activities in the State/UT:	-
XXII. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring	-
XXIII. Overall progress of the month: Please provide overall progress achieved in terms of all the above points compared to previous month.	a) With respect to treatment & disposal of sewage effluent the LB have taken steps to operate the existing STPs & action plan for up gradation of the existing STPs is being prepared by KUWS&DB. KUWS&DB has issued work order vide dtd on 15-04-2020 to contractor. • UP-gradation of 98 % of STP work is completed the upgraded STP is under operation. At present the STP operation is maintained KUWS&DB, yet to hand over to TMC. • The other related works like laying network in extension area & household connection etc are 70 % completed & rest of the work will be completed shortly. Work order for extension of UGD networks in out growth area and extended area GAP analysis has done by KUWS&DB and proposal sent to Government and the same is yet to approval. a) With respect to Solid Waste Management by Municipalities, under 15th finance (2021-22) grant Tender is invited for the procurement of GPS tracking System for waste collection vehicles, 4 new auto tippers, one number of lorry tipper, front loader back hoe are procured and installation of CC TV cameras in public areas is completed.

Annexure-1

XIII. Latest water quality of polluted river stretch for the month of Feb-2024

Sl. No.	Details of Water Quality Monitoring locations as per NWMP	Year	DO (mg/l)	BOD (mg/l)	Fecal Coliform (MPN/100 ml)	Total coliform (MPN/100 ml)
1	D/S of river Shimsha near Bangalore-Mysore Road Bridge Maddur, Maddur Tq, Mandya District	March-2024	No Water – Hence samples not collected			
2	D/s of river shimsha near Halgur Road Bridge, Malavalli Tq, Mandya District	March-2024	No Water – Hence samples not collected			

National Mission for Clean Ganga

Format for submission of Monthly Progress Report in the NGT Matter OA No.

673 of 2018 (in compliance to NGT order dated 24.09.2020)

For the State of Karnataka

Pertaining to KSPCB Regional Office, Davangere.

Name of the River : Tungabhadra
Polluted river stretch : Honnali to Haralahalli Bridge
Priority : IV
Status as on : 31.03.2024

Overall status of the State:

I. Total Population: Urban Population & Rural Population separately (as per 2011 census data)

1) Davangere (CC): 4,34,971. 2) Harihara (CMC):77,447.

3) Honnali (TMC): 17,928.

II. Estimated Sewage Generation (MLD): **62.84 MLD (51.6 + 8.84 + 2.4 from 3 Local bodies viz. Davangere, Harihara, Honnali respectively)**

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD):

Davangere: 4 No's of STPs of capacities 14.8 MLD, 20 MLD, 20 MLD & 5 MLD.

Harihara :18 MLD.

Honnali : 3.3 MLD.

- Capacity Utilization of existing STPs: **62.84 MLD.**
- MLD of sewage being treated through Alternate technology: **Nil**
- Gap in Treatment Capacity in MLD: **Nil**
- No. of Operational STPs: **6 No's**
(Out of 6 STPs only 2 STP has valid CFO)
- No. of Complying STPs: **0 No's**
- No. of Non-complying STPs: **6 No's**

Details of each existing STP in the State

No.	Location	Existing STP Capacity (MLD)	Capacity Being Utilized (MLD)	Operational Status of STP	Compliance Status of STP
1	Davangere CC (Kundawada Village)	14.8	9	Operating	Not complied
2	Davangere (shivanagara)	20	16	Operating	Not complied
3	Davangere (shivanagara)	20	16	Operating	Not complied
4	Davangere (Avaragere)	5	3	Operating	Not Complied
5	Harihara CMC	18	8.84	Operating	Not Complied
6	Honnali	3.3	1.8	Operating	Not complied,

Details of under construction STPs in the State

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
1	Honnali	3.3 MLD	90 %	Authenticated data Not provided	-

Details of proposed STPs in the State

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
-	-	-	-	-

IV. Details of Industrial Pollution: (RO, Davangere Revenue District)

- No. of industries in the State: 335 (R+O+G pertaining to Davangere Revenue Dist).
- No. of water polluting industries in the State:2. (2 major industries located on River bank, viz; M/s. Harihara Poly fibers and M/s. Grasiline Division of Grasim Industries. These two industries are located in Revenue limits of Haveri District.)
- Quantity of effluent generated from the industries in MLD: Consented effluent generation is 49.840 MLD and average quantity effluent generated is 32.5 MLD. (This

information is pertaining to M/s. Harihara Poly fibers and M/s. Grasiline Division of Grasim Industries. These two industries are located in Revenue limits of Haveri District)

- Quantity of Hazardous Sludge generated from the Industries in TPD: **0.0 TPD.**
- Number of industrial units having ETPs: **2. (This information is pertaining to M/s. Harihara Poly fibers and M/s. Grasiline Division of Grasim Industries. These two industries are located in Revenue limits of Haveri District)**
- Number of industrial units connected to CETP: **0**
- Number and total capacity of ETPs (details of existing/ under construction / proposed)
- **2 ETPs of capacities – 20 MLD (GRD) + 40 MLD (HPF). (This information is pertaining to M/s. Harihara Poly fibers and M/s. Grasiline Division of Grasim Industries. These two industries are located in Revenue limits of Haveri District)**
- Compliance status of the ETPs: **Complied with effluent standards.**
- Number and total capacity of CETPs (details of existing/ under construction / proposed) - **NIL**
- Status of compliance and operation of the CETPs - **Nil**

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
Kumarapattnum, RanebennurTq, Haveri Dist.	2 (M/s. Harihara Poly fibers and M/s. Grasiline Division of Grasim Industries.)	32.5 MLD	Operating and Complied with the Consent conditions	NIL

V. Solid Waste Management:

- Total number of Urban Local Bodies and their Population: **3 No's (pertaining to River stretch)**

Davangere CC – **4,34,971**

Harihar CMC – **77,447**

Honnali TMC – **17,928**

- Current Municipal Solid Waste Generation –

Davangere CC –170 TPD

Harihar CMC - 30 TPD

Honnalli TMC- 8 TPD

- Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), bio methanation, MRF etc..

Sl.No	ULB	Installed capacity	Type of processing
1	CC Davangere	200 TPD	windrow platform, composting and vermi composting facilities
2	CMC Harihara	35 TPD	composting and vermi composting facilities and Biogas
3	TMC Honnali	8 TPD	Composting.

- Action plan to bridge gap between installed Capacity and Current Utilization of processing facilities (if Gap > 20%): **Nil**
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)–**Nil**
- Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source -

ULBs	No of wards	No of wards having door to door collection service	no. of wards practicing segregation at source
Davangere CC	45	45	45
Harihar CMC	31	31	26
Honnali TMC	23	23	22

- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology) – **Nil**.
- Number and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.
- **Not reported**
- Number and area (in acres) of legacy waste within 1km buffer of both side of the rivers -- **Nil**
- Number of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers

Sl.No	Number of drains falling into rivers	Number of drains having floating racks/screens
1	9	0

Status of ULB wise Management of Solid Waste

ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
Davangere CC	170 TPD	170 TPD	Windrow platform, composting and vermi composting facilities	170 TPD	2 TPD Biomethanation plant.
Harihar CMC	30 TPD	30 TPD	Provided Biogas facility, composting and vermi composting	30 TPD	-
Honnalli TMC	8 TPD	8 TPD	Composting	8 TPD	-

VI. Bio-medical Waste Management:

- Total Bio-medical wastegeneration: **1.62 TPD (As per the 2021-22 Annual report submitted by CBMWTF In Davangere district)**
- Number of Hospitals and Health Care Facilities: **27 (Bedded Hospitals > 30 beds)**
- Status of Treatment Facility/ CBMWTF: The Biomedical wastes generated from the Davangere District is being collected by **M/s. Sushanth Environmental Technologies., Amaravathi Village, HariharaTq, Davangere.**

VII. Hazardous Waste Management:

- Total Hazardous Waste generation: **(2 major industries located on River bank, viz; M/s. Harihara Poly fibers and M/s. Grasiline Division of Grasim Industries)**
ETP sludge – Nil
Cotton waste & Used oil filters– **2.0 MT/A.**
Used oil – **8.9 KL/Annum.**
- Number of Industries generating Hazardous waste: **2.**
- Treatment Capacity of all TSDFs: **Nil (There is no TSDF in Davangere limits)**
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated: **Nil**
- Details of on-going or proposed TSDF: **NIL**

VIII. Plastic Waste Management:

There are no plastic waste generating industries in the said Polluted River stretch.

- Total Plastic Waste generation: Nil
- Treatment/ Measures adopted for reduction or management of plastic waste: Nil

IX. Details of Alternate Treatment Technology being adopted by the State/UT –
Nil

X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in situ treatment: **following are the points where drains contributing towards river;**

Sl. No	Location	Type of sewage
1	Hukkadagathri village (Left bank), HariharaTq, Davangere	Village sewage
2	Hole Haralahalli village (Left bank), HariharaTq, Davangere	Village sewage
3	Harihara Town (Right bank)	City sewage
4	Chikkabidari Village & Sarathihalla (Right bank), HariharaTq, Davangere.	Village sewage
5	Didagur village (Left bank), HonnaliTq, Davangere	Village sewage
6	Nadiharalahalli Village (Left bank), RanebennurTq, Haveri Dist.	Village sewage
7	Hirebidari village (Left bank), HariharaTq, Davangere	Village sewage
8	Aravi village (Left bank), Harapanahalli tq, Vijayanagar Dist.	Village sewage
9	Kuravathi village (right bank), Huvinahadagali tq, Vijayanagar Dist.	Village sewage

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

XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:
District level special Environment surveillance Task force committee meeting in respect of NGT O.A 606/2018 held on 26.12.2023. (Davangere District)

- XIII.** Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; **March** Month analysis report enclosed as **Annexure 1**.
- XIV. Ground water regulation: --
- XV. Good irrigation practices being adopted by the State: --
- XVI. Rain Water Harvesting: --
- XVII. Demarcation of Floodplain and removal of illegal encroachments: --
- XVIII. Maintaining minimum e-flow of river: --
- XIX.** Plantation activities along the rivers: **Letter addressed to DCF, Forest Department, Davangere to carryout plantation along the Tungabhadra River bank stretch dated 27.04.2022 and they have agreed to take up the work w.r.t Plantation on river banks vide letter dated: 11.05.2022.**
They have submitted a letter vide 763 dated: 28.07.2023 by stating that, they have carried work for the stretch of 74 Kms along the river bed during the year 2022-23 and proposed to carry 0.419 lakhs plantations during 2023-24.
- XX. Development of biodiversity park: --
- XXI.** Reuse of Treated Water: **District level special Environment surveillance Task force committee chairman has directed M/s. Grasim industries (HPF & GRD) authorities to utilize the treated effluent maximum for various purpose in unit premises and agricultural purpose during the meeting held on 30.11.2022. I/A have informed that, they have established full-fledged ETP comprising of primary treatment, secondary treatment based on Extended Aeration Activated Sludge Process and Tertiary treatment for effluent color removal. The color of the effluent was purely due to lignin in the colloidal suspension form, which is nontoxic to the eco system. However, lignin in small quantity in the effluent imparts a brownish tinge to the effluent thereby creating aesthetic impact on river water.**
- XXII. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards: --
- XXIII. Status of Preparation of Action Plan by the 13 Coastal States: --
- XXIV. Regulation of Mining Activities in the State/UT: --
- XXV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring ---
- XXVI. Overall progress of the month:

Please provide overall progress achieved in terms of all the above points compared to previous month.- During District level special Environment surveillance Task force committee held on 30.11.2022, the chairman of committee has informed to M/s. Grasim industries (HPF & GRD) authorities to utilize the treated effluent maximum for various purpose in unit premises and agricultural purpose and the unit authorities informed that they were planning to adopt latest technologies., they have established full-fledged ETP comprising of primary treatment, secondary treatment based on Extended Aeration Activated Sludge Process and Tertiary treatment for effluent colour removal.

Proceeding of the River rejuvenation meeting has already submitted in the MPR of March 2023.

This office has received a letter from Tahasildar Office, Harihara for Joint inspection along with the Superintendent of Police, Karnataka Lokayuktha, Davangere with respect to the complaint received from Sri. Krishnappa, Ashoka Nagar, Davangere regarding the wastewater or sewage joining the Tungabhadra River from residential colonies. The sewage discharging points and STP were inspected and Notices has been issued to CMC Harihara authorities with respect to the non-compliances and discharge of untreated sewage into Tungabhadra River and Letter also furnished to B.O for calling CMC harihara authorities for personal hearing at Head office.

All 6 STPs in RO Davangere jurisdiction were inspected in the month of April 2023 and recommended B.O to call all ULB authorities for personal Hearing and Further direction yet to be received from the Board Office.

The Analysis reports of the 4 STP samples (CC Davangere, 5 MLD STP, Avaragere + CC Davangere, 20 MLD STP, Shivanagar (Phase 2) + CC Davangere, 14.8 MLD STP, Kundawada + CMC Harihara, 8 MLD STP) collected were already submitted to B.O. The sample analysis results show that they are not confirming to the Board standards.

Further letter has been issued on 21.07.2023 to all Local Bodies and concerned line departments and reminder mail has been sent on 06.12.2023 for the submission of Action taken report on Proceedings of River rejuvenation meeting held on 30.11.2022.

District level special Environment surveillance Task force committee meeting in respect of NGT O.A.606/2018 held on 26.12.2023 and meeting proceedings enclosed with this report.

This office issued a letter to all ULBs and ZP authorities on 05.01.2024 to submit the map showing the discharge points of sewage into river or any other water bodies in their respective jurisdiction.

The treated water samples from CC Davangere 4 STPs were collected in 24.01.2024 and Borewell samples from CC Davangere, CMC Harihara, TMC Channagiri, TMC Honnali and treated water sample of CMC Harihara STP were collected on 25.01.2024 and handed over CEL2 for analysis. Notices were issued to ULBs, whose STP treated water are not confirming to the standards.

**Environmental Officer
KSPCB, Davangere**

KARNATAKA STATE POLLUTION CONTROL BOARD, CENTRAL ENVIRONMENTAL LABORATORY-2, DAVANGERE.
NMAR RIVER WATER ANALYSIS REPORT FOR THE MONTH OF MARCH-2024

FIELD OBSERVATIONS

Sl.No.	Sample No.	Station code	Date & Time of collection	Weather	Approximate depth	Colour & Intensity	Odour	Visible effluent discharge	Human activities	Station details
I	W-1463	5391	01.03.2024	Clear	>100cm	Clear	None	Village domestic effluent	Washing and bathing	Naharabaili, TB river, Karnataka
II	W-1466	5392	01.03.2024	Clear	>100cm	Clear	None	Village domestic effluent	Washing and bathing	Aruni, TB river, Karnataka
III	W-1467	5393	01.03.2024	Clear	>100cm	Clear	None	Village domestic effluent	Washing and bathing	Hirahalli, TB river, Karnataka
IV	W-1468	5394	01.03.2024	Clear	>100cm	Clear	None	Village domestic effluent	Washing and bathing	Konan, Tange, TB river, Karnataka
V	W-1469	5395	01.03.2024	Clear	>100cm	Clear	None	Village domestic effluent	Washing and bathing	Somadasara, TB river, Karnataka
VI	W-1472	5396	01.03.2024	Clear	>100cm	Clear	None	Village domestic effluent	Washing and bathing	Karavasi, TB river, Karnataka

CORE PARAMETERS

Sl.No.	Parameter	Unit	Value
1	Temperature	°C	30
2	DO	mg/L	7.2
3	pH	-	7.25
4	Conductivity	µS/cm	320
5	BOD	mg/L	2.4
6	Nitrate as N	mg/L	1.24
7	Total Coli form	MPN/100ml	1400
8	Faecal Coli form	MPN/100ml	170

GENERAL PARAMETERS

Sl.No.	Parameter	Unit	Value
1	Turbidity	NTU	3
2	P-Alkalinity as CaCO ₃	mg/L	Nil
3	Total Alkalinity as CaCO ₃	mg/L	68
4	Chloride	mg/L	38
5	COD	mg/L	28
6	TKN	mg/L	0.56
7	Ammonia as N	mg/L	BDL
8	Hardness as CaCO ₃	mg/L	74
9	Calcium as CaCO ₃	mg/L	40
10	Magnesium as CaCO ₃	mg/L	34
11	Calcium as Ca++	mg/L	16.00
12	Magnesium as Mg++	mg/L	8.26
13	Sulphate	mg/L	48.0
14	Sodium	mg/L	26.32
15	Total Dissolved Solids	mg/L	210
16	Total Fixed Solids	mg/L	202
17	Total Suspended Solids	mg/L	6
18	Phosphate as PO ₄	mg/L	BDL
19	Boron	mg/L	BDL
20	Potassium	mg/L	2.31
21	Fluoride	mg/L	0.25
22	Percentage Sodium	mg/L	42.64
23	SAR	mg/L	1.33

Water Quality Index

Class/category	Value
S	5

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KARNATAKA STATE POLLUTION CONTROL BOARD, CENTRAL ENVIRONMENTAL LABORATORY - 2, DAVANGERE.
NWAP RIVER WATER ANALYSIS REPORT FOR THE MONTH OF MARCH-2024

FIELD OBSERVATIONS										
Sl No	Sample Name	W-1414	W-1460	W-1461	W-1462	W-1463	W-1464	W-1470	W-1471	W-1473
	Station Code	38 2767	2766	2768	2770	2769	4094	4095		4195
I	Date & Time of collection	16.03.2024 10.00AM	01.03.2024 10.30AM	01.03.2024 11.00AM	01.03.2024 11.30AM	01.03.2024 12.00 AM	01.03.2024 12.30PM	01.03.2024 4.00PM	01.03.2024 5.20PM	01.03.2024 5.20PM
II	Weather	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
III	Approximate depth	>100cm	>100cm	>100cm	>100cm	>100cm	>100cm	>100cm	>100cm	>100cm
IV	Colour & Intensity	None	None	None	None	None	None	None	None	None
V	Odour	None	None	None	None	None	None	None	None	None
VI	Visible effluent discharge	City sewage	Village sewage	None	City sewage	HPP and GRD effluent	None	Village domestic sewage	None	Village domestic sewage
VII	Human activities around the station	Washing and bathing	Washing and bathing	Washing and bathing	Washing and bathing	Fishing	Fishing	Washing and bathing	Washing and bathing	Washing and bathing
VIII	Station details	Homoli Bridge, TB river, Homoli, Karnataka	New Bridge, NH-4, TB river, Karnataka	Up Stream of M/s HPP Ltd., Old bridge, TB river, Karnataka	Old water intake point, Hambar, TB river, Karnataka	Down Stream of M/s HPP Ltd, TB river, Karnataka	Jack well point near Madhavarajulu, TB river, Karnataka	Kandahalli Bridge, TB river, Karnataka	Mylana, TB river, Karnataka	Arav, TB river, Karnataka

CORE PARAMETERS									
Sl. No.	Parameter	Unit	1	2	3	4	5	6	7
1.	Temperature	°C	27	29	29	30	30	29	29
2.	DO	mg/L	7.1	7.0	6.7	6.6	7.0	7.1	7.1
3.	pH	-	8.05	7.91	8.00	7.41	7.45	8.32	8.31
4.	Conductivity	µS/cm	183	156	164	550	300	240	290
5.	BOD	mg/L	2.0	1.8	2.2	5	3.4	2.6	2.2
6.	Nitrate as N	mg/L	BDL	1.30	0.12	0.18	0.42	1.20	1.42
7.	Total Col form	NPN/100ml	970	1100	540	1600	920	1400	2400
8.	Faecal Col form	NPN/100ml	84	140	40	120	40	130	350
GENERAL									
Sl. No.	Parameter	Unit	1	2	3	4	5	6	7
1.	Hardness	mg/L	10	3	2	2	4	3	4
2.	Calcium as CaCO ₃	mg/L	74	60	60	66	64	70	96
3.	Total Alkalinity as CaCO ₃	mg/L	74	60	60	66	64	70	96
4.	Chloride	mg/L	28	24	24	60	38	30	36
5.	CO ₃	mg/L	28	12	14	68	42	30	38
6.	SO ₄	mg/L	1.62	0.40	0.26	1.22	0.82	0.16	0.22
7.	Ammonia as N	mg/L	0.56	0.22	0.14	0.16	0.24	0.08	0.07
8.	Hardness as CaCO ₃	mg/L	66	52	52	92	72	70	90
9.	Calcium as CaCO ₃	mg/L	44	28	28	34	54	36	48
10.	Magnesium as CaCO ₃	mg/L	22	24	24	36	18	34	42
11.	Calcium as Ca++	mg/L	17.60	11.20	11.20	22.40	21.60	14.40	23.20
12.	Magnesium as Mg++	mg/L	5.35	5.83	5.83	8.75	4.37	8.20	10.21
13.	Sulphate	mg/L	7.72	8	10	147.2	4.7	22	25
14.	Sodium	mg/L	16.27	12.51	10.02	88.08	29.82	33.22	34.02
15.	Total Dissolved Solids	mg/L	128	108	114	184	188	164	190
16.	Total Fixed Solids	mg/L	120	100	106	148	184	156	180
17.	Phosphate as PO ₄	mg/L	20	6	8	6	8	10	10
18.	Boron	mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
19.	Potassium	mg/L	3.63	1.83	1.75	4.20	2.50	3.02	3.29
20.	Fluoride	mg/L	0.22	0.23	0.20	0.17	0.24	0.27	0.28
21.	Percentage Sodium	mg/L	53.77	53.95	29.61	66.29	46.38	49.43	15.34
22.	ISAR	C	0.97	0.75	0.60	3.99	1.53	1.73	1.10
23.	Water Quality Index	S	S	S	S	D	D	C	C

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