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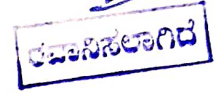
ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ
Karnataka State Pollution Control Board

"ಪರಿಸರಭವನ", 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ.49, ಚರ್ಚ್‌ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ, ಭಾರತ
"Parisara Bhavana", 1st to 5th Floor, # 49, Church Street, Bengaluru - 560 001, Karnataka, INDIA

No. KSPCB/CEO-2/673-2018/2022-23/ 6572

Date:

29 DEC 2022



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.

Sub: Submission of Dossier for the month of November 2022 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 November
2022 for the State of Karnataka as per the directions given by the Hon'ble NGT in the matter
of OA 673/2018.

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

Yours faithfully,

Member Secretary,
KSPCB

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/ UT of KARNATAKA

November 2022

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)		17 PRS (Annexure 2)
Estimated sewage generation	3356.5 MLD		884.25 MLD
Existing no. of STPs	169 STPs	2 FSSM	45 STPs,
Existing treatment Capacity (installed)	2787.46 MLD	0.012 MLD	Capacity = 822 MLD
	Total = 2787.47 MLD		
Capacity Utilization of existing STPs	1968.91 MLD	0.012 MLD	536.3 MLD
	Total = 1958.58 MLD		
Percent capacity utilization	70.26%		65.24%
Sewage being treated through Alternate technology (MLD)	0.012 MLD through FSSM (0.006MLD in Devanahalli and 0.006 MLD in Nelamangala)		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	569.03 MLD Percentage gap = 16.95 %		62.25 MLD Percentage gap = 7%
Gap in capacity utilization (MLD)	828.88 MLD Percentage gap = 29.73%		285.7 MLD Percentage gap = 34.75%
Gap in overall sewage treatment (MLD)	1397.92 MLD Percentage gap = 41.64%		347.95 Percentage gap = 39.34%
No. of Operational STPs	156 STPs + 2 FSSM		42 STPs
No. of non-operational STPs	13 STPs (47.01MLD) (Annexure 3)		3 STPs (10.27 MLD)
No. of Complying STPs	152 STPs complying		40 STPs complying
No. of Non-complying STPs	4 STPs		2 STPs non-complying

- **Details of each existing STP in the State: Annexure 1**
169 STPs of existing capacity 2787.47 MLD and capacity utilization of 1958.58 MLD
- **Details of each existing STP in the 17 PRS ULB: Annexure 2**
45 STPs of existing capacity 822 MLD and capacity utilization of 536.3 MLD
- **Details of non-operational STP in the State: Annexure 3**
13 STPs of operational capacity 47.01MLD
- **Details of under construction STPs in the State: Annexure 4**
81 STPs of capacity 435.67 MLD
- **Details of under construction STPs in the 17 PRS ULB: Annexure 5**
31 STPs of capacity 74.35 MLD
- **Details of proposed STPs in the State: Annexure 6**
83 STPs of capacity 246.07 MLD
- **Details of proposed STPs in the 17 PRS ULB: Annexure 7**
24 STPs of capacity 58.7 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: 3424
- Number of industrial units connected to CETP: 803
- Number and total capacity of ETPs (details of existing/ under construction / proposed):
3424 industrial ETPs; existing capacity = 739.64 MLD
- Compliance status of the ETPs:
Number of functional ETPs = 3424
Complying ETPs = 3424
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)
Industries with non-functional ETPs = 1 (Criminal Case filed)

Action taken against industries with no ETP and non-functional ETPs:

Action taken	Against industries with No ETP (55)	Against industries with Non-functional ETPs (1)	Overall action
Personal Hearing was held with all the KSRTC bus depots by giving an opportunity on the Principle of Natural Justice before initiating actions as per the provisions of Water Act. It was directed to complete ETP works and commission them within 45 days and 90 days. However the depots have failed to provide ETPs within the stipulated timeframe and hence, KSPCB has decided to initiate criminal case under section 41 of the Water Act-1974.	55	-	55
Legal case		1	1

- **Number and total capacity of CETPs (details of existing/ under construction / proposed):** 11 CETPs; total capacity = 6395 KLD
- **Status of compliance and operation of the CETPs**

SI 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	Complying	
7	Viwa eco-club	20	20	40	Complying	
8	Lidkar Tanners	1000	Closed	-	-	Closed

						Voluntarily (the member units connected to this CETP are sending their effluent to the nearby CETPs)
9	CETP Mangalore-1MSEZ	3500	2000	5	Complying	
10	CETP Mangalore-2, Kotepura	600	600	13	Complying	
11	CETP Project Mother Earth Environ Tech Pvt Ltd	500	500	34	Complying	
		6395	3815.08	803		

Details of under construction CETPs:

District	Address	Status	Designed capacity	Proposed date of completion
Bidar	Kolhar industrial area	Under construction	1.2 MLD	31/03/2024

Details of proposed CETPs:

District	Address	Status	Designed capacity	Proposed date of completion
Peenya	Peenya industrial area	EOI issued	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 = 313; Population = 1.5 crores and 1.0 crore in BBMP.

Current Municipal Solid Waste Generation: 11784 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	313
Quantity of MSW generated (TPD)	11784
Quantity of MSW collected (TPD)	11761
Quantity of MSW segregated & transported (TPD)	segregated - 7545 Mixed waste – 4216 Total collected and transported – 11761
Quantity of MSW processed (TPD)	5741
Quantity of MSW disposed in secured land fill site (TPD)	538
Gap in Solid Waste Management UTs (TPD)	6020
Wet waste generated	6481
Wet waste: composting, vermicomposting and bio-methanation (TPD)	4370
Dry waste generated (TPD)	4124
Dry waste : MRF, recycling and RDF (TPD)	1269

Details of waste processing in Karnataka

	Total Capacity (TPD)	No. of Units	No. of ULBs covered
Material Recovery facilities	954	318	218
Recycling		318	218
Composting	5834	216	198
Biomethanation	24	19	19
RDF	-	-	-
Dry waste sent to cement kilns	5363		

- **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 2046.65 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:

- M/s. Rubbel Revival Pvt Ltd., has obtained Consent for Establishment form KSPCB to establish a 750 MTPD plant on 28.05.2020 to process C&D waste in Bengaluru.
- 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
7079	7079	5543

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

Components	Existing capacity	Proposed capacity/Nos	Cost for the proposed capacity (Cr)
Compost	5834	1813.46	208.55
Bio methanation	24	600	108.00
Recycling and MRF	954	4731.11	351.65
Waste to Energy	0	600	108
C&D	0	1193	71.58

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 179 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 38 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: 26 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 45 Urban Local Bodies of capacity 165 KLD with an estimated cost of Rs. 89.19 crores. Out of 45 approved FSTPs, 3 no. of FSTPs are under construction phase viz., Karkala 6KLD, Vitla 9KLD and Sakaleshpura 6KLD and remaining are under tendering process. Fecal Sludge and Septage Management facility of 6 KLD capacity at Devanahalli and 6 KLD at Nelamangala are operational and 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	PIII	Arkavathi	Thippagondanahalli Reservoir to Kanakapura	55	16
2	PIII	Lakshmanteer tha	Hunasuru to Kattemalalvadi	10	2
3	PIII	Malaprabha	Khanapur to Ramdurg	80	18
4	PIII	Tungabhadra	Harihara to haralahalli	60	6
5	PIV	Bhadhra	Bhadravathi to Holehonnur	10	6
6	PIV	Cauvery	Muller to Sattegara Bridge, Chamarajanagara; From Ranganattitu Bird Sanctuary, Srirangapattana, to Sattegara Road Bridge, Kollegala	50	18
7	PIV	Kabini	Nanjanagud to Hejjige village	9	6
8	PIV	Kagina	Shahabad to Hongunta	10	1
9	PIV	Kali	Hasan Maad (west coast paper mill) to Bommanahalli	10	5
10	PIV	Krishna	Yadurwadi to Jungurwadi village; Yalagur Village to narayanpur Bridge; North of Uppinhal village in Lingur taluk to Tintini Bridge in Devadurga taluk	189.57	38
11	PV	Asangi - Krishna	Along Asangi Barrage, Bagalkot District.	33	3

12	PV	Shimsha	Yedyur to Halagur Bridge stretch	80	1
13	PV	Bhima	Ghanagapur to Yadgir	160	5
14	PV	Netravathi	Uppinagandy to Mangaluru	55	13
15	PV	Kumaradhara	Along Uppinagandy		
16	PV	Tunga	Shivamogga To Kudli	10	6
17	PV	Yagachi	Belur to Halavagilu, Hassan	60	2

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.

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
2018-19	44494 Ha
2019-20	41620 Ha
2020-2021	74399 Ha
2021-2022 (till July)	31085 Ha

XXI. Development of biodiversity park:

One biodiversity park proposed in Hassan ULB

XXII. Reuse of Treated Water:

841.17 MLD of treated water is reused in Bengaluru as follows:

Sewage treatment and treated sewage reuse					
Sl.no	Location of STP	STP Capacity (MLD)	Capacity Utilized (MLD)	Treated sewage reused (MLD)	Used for
1	Rajacanal	40	30.68	30.25	Used for irrigation in the area of Chikkaballapura and Devanahalli KIADB Industrial area through 65 no. of tanks.
2	Rajacanal	40	41.51	40.18	
3	Horamavu	20	15.57	14.96	
4	Hebbal	100	85.59	84.5	
5	K & C Valley	218	152.65	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	2.1	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 lomite, 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	75	77.04	0.318	M/s Global Village for Gardening
16	V Valley	180	37.11		10 MLD to tertiary plant, balance to SWD
17	Kempambudhi	1	1.01	0.99	To Kempambudhi Lake
18	Mallathahalli	5	4.78	4.65	To recharge Malathalli Lake and Ullal Lake
19	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
20	Halasuru	2	1.93	1.89	Halasuru Lake
21	Nagasandra	20	15.57		To SWD
22	Nagasandra	20	15.57		
23	Kadabeesanahalli	50	30.07	29.52	Presently letting into SWD - Proposed for future utilisation in KIADB Industrial Area at Narasapur with the completion of TTP at Narasapura
24	K R Puram	20	14.7	12.89	Vengaiana Kere
25	Doddabele	40	41.95	0.544	For STP process and balance to downstream Nala
26	Kengeri	60	41.95	2.15	
27	Doddabele	20	20.44	0.26	
28	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.
29	Hulimavu	10	9.62	9.33	Hulimavu Kere
30	Agaram	35	34.51	33.92	Agaram Kere
31	K&C Valley	150	150.26	146.11	The entire treated water is being pumped to lakes of kolar district by minor irrigation department, GOK.
32	KR Puram (New)	20	19.81	19.26	Vengaiana Kere
33	Chikka Beguru	5	4.24	4.19	Chikkabegur kere
34	Hennur	1	0.5	0.48	To Bio Diversity Park and remaining to SWD
35	Madiwala	4	2.08	1.99	To recharge Madiwala lake
36	V.Valley	150	125		To SWD
37	Mangaluru(Kavoor)	43.5	27	27	To mangaluru SEZ for industrial purpose.
38	Ballari	30	23	3	To M/s Janaki Sponge Iron Ltd.
39	Kollegala	9	6	4	Agriculture
40	Chickmagalur	20	12	6	Agricultural
41	Basavana Bagewadi	0.25	0.2	0.2	Agriculture
42	Basavana Bagewadi	0.25	0.2	0.2	Agriculture
	Total	1630.5	1281.11	841.172	

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.

The rejuvenation of Tungabhadra has been initiated by approving the installation of four Real Time Water Quality Monitoring Stations (RTWQMS). The following sites are proposed for the installation of RTWQMS. Advanced Centre for Integrated Water Resources Management

(ACIWRM), Water Resource Department is proceeding with procurement and installation process.

The project is funded by the Asian Development Bank. Detailed project report for setting up the monitoring stations at the following locations is in the process of seeking approval from the funding agency. Once the approval from ADB is received, tender will be issued.

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 46 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.

**Member Secretary
KSPCB**

Annexure-1

List of existing 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	STP capacity utilization (MLD)	Status of Complying
1	Bangalore	Bangalore Urban	Yes	BWSSB	BWSSB	V Valley	Operational	150	ASP	125	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	2.10	Complying
7	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Doddabele	Operational	40	SBR	41.95	Complying
8	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Doddabele	Operational	20	SBR	20.44	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	85.59	Complying
11	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Horamavu	Operational	20	SBR	15.57	Complying
12	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Hulimavu	Operational	10	SBR	9.62	Complying
13	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Jakkur	Operational	15	UASB+EA	17.18	Complying
14	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	K & C Valley	Operational	218	ASP	152.65	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	150.26	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	30.07	Complying
21	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Kadugodi	Operational	6	SBR	5.22	Complying
22	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Kempambudhi	Operational	1	EA	1.01	Complying
23	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Kengeri	Operational	60	ASP	41.95	Complying
24	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Lalbagh	Operational	1.5	Activated aeration + plate settlers + UV disinfection	1.23	Complying
25	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Mailsandra	Operational	75	EA	77.04	Complying
26	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Mallathahalli	Operational	5	SBR	4.78	Complying
27	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Nagasandra	Operational	20	SBR	15.57	Complying
28	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Nagasandra	Operational	20	Extended Aeration	15.57	Complying
29	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Rajacanal	Operational	40	SBR	30.68	Complying
30	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Rajacanal	Operational	40	Extended Aeration	41.51	Complying
31	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Sarakki	Operational	5	SBR	4.77	Complying
32	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	V Valley	Operational	180	Trickling process	37.11	Complying
33	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Yelemelle chellappa chetty	Operational	15	SBR	13.63	Complying
34	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Yelhanka	Operational	10	ASP	9.97	Complying
35	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Hennur	Operational	1	SBT	0.50	Complying
36	Bengaluru	Bangalore Urban	No	BWSSB	BWSSB	Madiwala	Operational	4	SBR	2.08	Complying
37	Dharwad	Hubballi-Dharwad	No	KUIDFC	Concerned ULB	Madihal in Dharwad	Operational	20	SBR	16.000	Complying
38	Dharwad	Hubballi-Dharwad	No	KUIDFC	Concerned ULB	Gabbur in Hubballi	Operational	40	SBR	20.000	Complying
39	Bijapur	Bijapur	No	KUIDFC	Concerned ULB	Indi Road, Vijayapur	Operational	31	FAL	25.000	Complying
40	Bagalkote	Jamkhandi	No	KUIDFC	Concerned ULB	Near Malgur road	Operational	7.6	FAL	2.000	Complying
41	Raichur	Raichur	No	KUIDFC	Concerned ULB	Eklaspur	Operational	20	FAL	12.000	Complying
42	Raichur	Raichur	No	KUIDFC	Concerned ULB	Hosur	Operational	8	FAL	5.000	Complying
43	Chamarajnagar	Chamarajanagar	No	KUIDFC	Concerned ULB	Near Boodithittu village	Operational	9	FAL	5.000	Complying
44	Tumkur	Tiptur	No	KUIDFC	Concerned ULB	Huchagondanahalli Sy No 53	Operational	6	SBR	3.000	Complying
45	Bengaluru rural	Doddaballapur	No	KUIDFC	Concerned ULB	Majarahosahalli Sy No.35	Operational	12	WSP	7.000	Non-complying
46	Chikkaballapur	Chikkaballapur	No	KUIDFC	Concerned ULB	Gopala Krishna Ammnikere Sy No.260	Operational	10	WSP	7.000	Complying
47	Uttarakannada	Bhatkal	No	KUIDFC	Concerned ULB	Venktapura bhatkal	Operational	1.5	WSP	1.500	Complying
48	Dakshina Kannada	Mangaluru(Pachanady)	No	KUIDFC	Concerned ULB	Pachanady	Operational	8.75	ASP	4.500	Complying
49	Dakshina Kannada	Mangaluru(Kavoor)	No	KUIDFC	Concerned ULB	Kavoor	Operational	43.5	UASB	27.000	Complying
50	Dakshina Kannada	Mangaluru(Surathkal)	No	KUIDFC	Concerned ULB	Surathkal	Operational	16.5	ASP	1.500	Complying
51	Dakshina Kannada	Mangaluru(Bajal)	No	KUIDFC	Concerned ULB	Bajal	Operational	20	ASP	8.000	Complying

52	Kalburgi	Kalaburgi	No	KUIDFC	Concerned ULB	Near Nandikur Village	Operational	40	SBR	40.000	Complying
53	Uttarakannada	Karwar	Yes	KUIDFC	Concerned ULB	Gandhi nagar Near KEB Karwar	Operational	1.5	Aerator Lagoon	1.500	Complying
54	Udupi	Udupi	No	KUIDFC	Concerned ULB	Nittur	Operational	12.5	FAL	5.000	Complying
55	Bidar	Bidar	No	KUIDFC	Concerned ULB	Gornalli B Village Bidar - 01 No. (KUIDFC)	Operational	17.26	Aerated Lagoon Type	5.000	Non-complying
56	Belagavi	Gokak	No	KUIDFC	Concerned ULB	Maldinni Village	Operational	8.7	FAL	1.500	Complying
57	Davangere	Davangere	Yes	KUIDFC	Concerned ULB	Shivanagar, Davanagere	Operational	20	SBR	20.000	Complying
58	Davangere	Davangere	Yes	KUIDFC	Concerned ULB	Avaragere	Operational	5	SBR	2.500	Complying
59	Davangere	Davangere	Yes	KUIDFC	Concerned ULB	Shivanagar	Operational	20	SBR	15.000	Complying
60	Davangere	Harihara	Yes	KUIDFC	Concerned ULB	Harlapura	Operational	18	FAL	4.000	Complying
61	Haveri	Ranebannur	Yes	KUIDFC	Concerned ULB	Hunatti	Operational	7.5	FAL	7.500	Complying
62	Haveri	Ranebannur	Yes	KUIDFC	Concerned ULB	Hunatti	Operational	7.5	FAL	2.500	Complying
63	Bagalkote	Rabkavi Banahatti	Yes	KUIDFC	Concerned ULB	Near Gattagi, Basaveshwara road	Operational	9.2	SBR	2.000	Complying
64	Bidar	Humnabad	No	KUIDFC	Concerned ULB	Dummanasoor village, Chinnakera Road, Near Forestry Nursery	Non-operational	6	WSP	0.000	na
65	Haveri	Haveri	No	KUIDFC	Concerned ULB	Siddevapure	Non-operational	4.71	FAL	0.000	na
66	Bagalkote	Ilkal	No	KUIDFC	Concerned ULB	Tondyal village	Operational	8	FAL	2.000	Complying
67	Vijayanagara	Hospete	No	KUIDFC	Concerned ULB	Belagadu Village	Operational	27	ASP	5.000	Complying
68	Haveri	Byadigi	No	KUIDFC	KUIDFC	Theradahalli	Operational	5	SBR	1.500	Complying
69		Sindhanur	No	KUIDFC	Concerned ULB	Sukalpet	Operational	12	FAL	3.000	Complying
70	Hassan	Hassan	Yes	KUWS&DB	Concerned ULB	Bittagowdanahalli	Operational	10	WSP	9.3	Complying
71	Hassan	Belur	Yes	KUWS&DB	Concerned ULB	Hole Beedhi	Operational	2.4	WSP	2.1	Complying
72	Hassan	Belur	Yes	KUWS&DB	Concerned ULB	Behind Ayyappa Swamy Temple	Operational	0.3	WSP	0.3	Complying
73	Mandya	Srirangapatna	yes	KUWS&DB	Concerned ULB	Chandagalu road Ganjam, Srirangapatna	Operational	1.39	WSP	1.39	Complying
74	Mandya	Srirangapatna	yes	KUWS&DB	Concerned ULB	Chandagalu road Ganjam, Srirangapatna	Operational	2.21	WSP	1.63	Complying
75	Mandya	Maddur	yes	KUWS&DB	Concerned ULB	Hole Anjananeya Temple	Operational	3.5	WSP	2.4	Complying
76	Mysore	Nanjangudu	yes	KUWS&DB	Concerned ULB	Goluru	Operational	7	WSP	3.3	Complying
77	Mysore	Bannuru	yes	KUWS&DB	Concerned ULB	Chamanahalli	Operational	2.25	WSP	1	Non-complying
78	Chamarajnagar	Kollegala	yes	KUWS&DB	KUWS&DB	Kollegala- Mulluru Road	Operational	9	Aerated lagoon	6	Complying
79	Chamarajnagar	Gundlupete	No	KUWS&DB	Concerned ULB	Zone 'B' VIJAYAPURA	Operational	1.5	WSP	0.8	Complying
80	Chamarajnagar	Gundlupete	No	KUWS&DB	Concerned ULB	Chennapura Road, Chikkanagaluru	Operational	2.5	WSP		Complying
81	Mysore	T Narsipura	yes	KUWS&DB	Concerned ULB	Near KSRTC Bus stand (Constructed)	Operational	5.5	SBR	3.67	Complying
82	Mysore	KR Nagar	No	KUWS&DB	Concerned ULB	Kantenahalli	Operational	1.44	WSP	4.37	Complying
83	Mysore	KR Nagar	No	KUWS&DB	Concerned ULB	Madhuvinahalli	Operational	1.45			Complying
84	Mysore	KR Nagar	No	KUWS&DB	Concerned ULB	Madhuvinahalli	Operational	2.50			Complying
85	Mysore	Hunsuru	yes	KUWS&DB	Concerned ULB	Kalkunike	Operational	3.9	WSP	3.9	Complying
86	Dharwad	Subramanya	Yes	KUWS&DB	Concerned ULB	Back side of Subramanyeshwara college	Operational	2.6	Aerated Lagoon	1	Complying
87	Ramanagara	Kanakapura	Yes	KUWS&DB	Concerned ULB	Aralalu Village	Operational	6.29	WSP	3.3	Complying
88	Ramanagara	Ramanagara	Yes	KUWS&DB	Concerned ULB	Kumbapura	Operational	7.56	Aerated Lagoon	6.24	Complying
89	Shivamogga	Shivamogga	Yes	KUWS&DB	KUWS&DB	Purle	Operational	5.13	SBR	0.52	complying
90	Shivamogga	Shivamogga	Yes	KUWS&DB	Concerned ULB	Near Thyavarechatnalli	Operational	35.58	Aerated Lagoon	24	Complying
91	Shivamogga	Bhadravathi	Yes	KUWS&DB	KUWS&DB	Near APMC yard	Operational	7.2	WSP	2	Complying

92	Shivamogga	Bhadravathi	Yes	KUWS&DB	Concerned ULB	Jatpat Nagara	Operational	5.83	WSP	4.8	Complying
93	Shivamogga	Bhadravathi	Yes	KUWS&DB	KUWS&DB	At Ujjinipura	Operational	1	SBR	0.05	Complying
94	Davangere	Honnali	Yes	KUWS&DB	Concerned ULB	Malladevarakatte	Operational	3.3	WSP	0.9	Complying
95	Dharwad	Dharwad	No	KUWS&DB	KUWS&DB	Sy. No. 151, Narendra village, University of agricultural sciences premises, Dharwad	Operational	10	SBR	1.45	Complying
96	Dharwad	Dharwad	No	KUWS&DB	KUWS&DB	At Kelageri lake premises, near Radhakrishna nagar, Dharwad	Operational	3	SBR	1.33	Complying
97	Dharwad	Dharwad	No	KUWS&DB	Concerned ULB	Jogyallapur	Operational	0.25	MBBR	0.06	Complying
98	Dharwad	Hubballi	No	KUWS&DB	KUWS&DB	At RS No. 315, Unakal lake premises, Hubballi	Operational	3	Phytorid	1.84	Complying
99	Dharwad	Hubballi	No	KUWS&DB	KUWS&DB	Tolanakeri, Akshaya colony, Hubballi	Non-Operational	1	Phytorid	0	na
100	Dharwad	Hubballi	No	KUWS&DB	KUWS&DB	At Ramanagar, near Ashraya colony, beside Tarihal Industrial area, Hubballi	Operational	0.25	MBBR	0.114	Complying
101	Bagalkote	Badami	No	KUWS&DB	Concerned ULB	Behind Veerpulikes Education Institution, Yaragoppa Road , Badami	Operational	4.3	WSP	3	Complying
102	Bagalkote	Mudhol	No	KUWS&DB	Concerned ULB	Near Yadahalli-Ingalgi road Mudhol	Operational	9.06	ULB	4.8	Complying
103	Bagalkote	Bilagi	No	KUWS&DB	Concerned ULB	Towards Korthi Road Distance 2 KM Away from city limit	Operational	3.5	ULB	2.4	Complying
104	Bijapur	Basavana Bagewadi	No	KUWS&DB	Concerned ULB	Ivanagi Road Basavana Bagewadi	Operational	4.02	ULB	3	Complying
105	Bijapur	Indi	No	KUWS&DB	Concerned ULB	Ahrasang Road Indi	Operational	4.2	ULB	4.02	Complying
106	Bijapur	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	Complying
107	Belagavi	Bailhongal	No	KUWS&DB	Concerned ULB	Anigol Road, Bailhongal	Operational	8.28	Aerated Lagoon	4	Complying
108	Belagavi	Chikodi	Yes	KUWS&DB	Concerned ULB	HIREKODI	Operational	5.8	WSP	2.7	Non-complying
109	Belagavi	Sadalga	Yes	KUWS&DB	KUWS&DB	Dattawad Road Honde	Non-Operational	3.72	Aerated Lagoon	0	na
110	Gadag	Gadag-Betageri CMC	No	KUWS&DB	KUWS&DB	Nagasamudra	Operational	13.88	WSP	10	Complying
111	Gadag	Laxmashwar	No	KUWS&DB	Concerned ULB	Akkigunda, Desaihan	Operational	5.5	Aerated Lagoon	0.8	Complying
112	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	1.2	Complying
113	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
114	Vijayanagara	Harapanahalli	No	KUWS&DB	Concerned ULB	Narayanapura, Harapanahalli Taluka.	Operational	7.92	Waste Stabilization Pond type	4	Complying
115	Kalburgi	CC, Kalaburagi	No	KUWS&DB	KUWS&DB	Near Nandikur Village	Operational	20.00	SBR type	12.5	Complying
116	Kalburgi	CC, Kalaburagi	No	KUWS&DB	KUWS&DB	Near Kapnoor Village Sy. No. 69/2 & 69/3	Operational	25.00	SBR type	10	Complying
117	Kalburgi	TMC,Chittapur	No	KUWS&DB	Concerned ULB	Chittapura Town Sy. No. 82/2	Operational	5.10	WSP type	3.6	Complying
118	Yadgir	TMC,Gurmitkal	No	KUWS&DB	Concerned ULB	Nanapur area in Gurmitkal	Operational	3.00	WSP type	1	Complying
119	Bidar	CMC. Bidar	No	KUWS&DB	KUWS&DB		Operational	17.26	SBR type	3.8	Complying
120	Bellary	CCB, Ballari	No	KUWS&DB	Concerned ULB	30MLD Annathapur Road	Operational	30.00	Aerated Lagoons	23	Complying
121	Bellary	CCB, Ballari	No	KUWS&DB	Concerned ULB	15 MLD at Cowl Bazaar	Operational	15.00	Aerated Lagoons	9	Complying
122	Bellary	CCB, Ballari	No	KUWS&DB	KUWS&DB	Enturi Nagar, Ballari	Operational	10.00	SBR Type	10	Complying
123	Koppala	CMC, Gangavathi	No	KUWS&DB	Concerned ULB	chikka janthkal Road at Gangavathi	Operational	14.00	FAB Type	12.6	Complying
124	Raichur	CMC, Raichur	No	KUWS&DB	KUWS&DB	Yeramarus Village near Raichur	Operational	5.50	SBR	1.2	Complying
125	Hassan	Arasikere	No	KUWS&DB	KUWS&DB	Garudangiri Road	Operational	12.00	SBR	6	Complying
126	Hassan	Channarayapatna	No	KUWS&DB	Concerned ULB	Gadderameshwara badavane	Operational	4.60	WSP	4.6	Complying

127	Hassan	Holenarasipura	No	KUWS&DB	Concerned ULB	Tattekere Grama	Operational	3.00	WSP	3	Complying
128	Chikkamagalur	Chickmagalur	No	KUWS&DB	KUWS&DB	Chennapura Road, Chikkamagaluru	Operational	20.00	MBBR	12	Complying
129	Chikkamagalur	Birur	No	KUWS&DB	Concerned ULB	Hindu Rudrabhoomi, Yagati Road, Birur	Operational	2.64	WSP	2.64	Complying
130	Mandya	Mandya	No	KUWS&DB	Concerned ULB	Yathagadahalli Road	Operational	9.62	OP	7.5	Complying
131	Mandya	Mandya	No	KUWS&DB	Concerned ULB	Chikkegowdana Doddi	Operational	8.9	WSP	7.5	Complying
132	Mandya	Malavalli	No	KUWS&DB	Concerned ULB	Goudgere	Operational	5.65	WSP	4.5	Complying
133	Mandya	Krishnarajpet	No	KUWS&DB	Concerned ULB	Sy. No 32, Hosaholalu	Operational	5	WSP	2	Complying
134	Mandya	Nagamangala	No	KUWS&DB	Concerned ULB	Gaddebhuvanahalli	Operational	3	WSP	1.8	Complying
135	Udupi	Karkala	No	KUWS&DB	Concerned ULB	Near Existing Oxidation Pond, Kabbettu, Karkala	Operational	3	Oxidation Pond	1	Complying
136	Dakshina Kannada	Ullala	No	KUWS&DB	KUWS&DB	Kodikotepura, Ullala	Non-Operational	4.4	SBT	0	na
137	Mysore	Mysore	No	KUWS&DB	Concerned ULB	Rayanakere	Operational	60		125	Complying
138	Mysore	Mysore	No	KUWS&DB	Concerned ULB	Vidyaranyapuram	Operational	67.5			Complying
139	Mysore	Mysore	No	KUWS&DB	Concerned ULB	Hebbal	Operational	8			Complying
140	Mysore	Mysore	No	KUWS&DB	Concerned ULB	Kesare	Operational	30			Complying
141	Tumkur	Tumakuru	No	KUWS&DB	Concerned ULB	Bheemasandra village, City corporation Tumakuru	Operational	24.57	Aerated lagoon	24	Complying
142	Tumkur	Sira	No	KUWS&DB	Concerned ULB	Kallukote grama	Operational	10.6	SBR	1.75	Complying
143	Chitradurga	Chitradurga	No	KUWS&DB	Concerned ULB	Beside Railway Track, Near NH4, Chitradurga	Operational	20	SBR	18	Complying
144	Davangere	Davanagere	yes	KUWS&DB	Concerned ULB	Kundavada	Operational	14.8	WSP	12	Complying
145	Bengaluru	Anekal	No	KUWS&DB	Concerned ULB	Aldenahalli	Operational	3.1	SBR	2	Complying
146	Bengaluru	Anekal	No	KUWS&DB	Concerned ULB	Doodakere	Operational	3.3	SBR		Complying
147	Ramanagara	Magadi	No	KUWS&DB	Concerned ULB	PURA GRAMA	Operational	3.7	WSP	1.78	Complying
148	Kolar	Kolar	No	KUWS&DB	Concerned ULB	Near Siddhartha school ,manighatta main Road ,gandhi nagara kolar	Operational	10.16	WSP	5.68	Complying
149	Kolar	Mulbagal	No	KUWS&DB	KUWS&DB	Chikkagopammanakere	Operational	6.3	SBT	2.2	Complying
150	Kolar	Srinivasapura	No	KUWS&DB	Concerned ULB	Hebbata kere	Operational	3	WSP	2.2	Complying
151	Kolar	Srinivasapura	No	KUWS&DB	KUWS&DB	1) Indiranagara near APMC yard	Operational	0.112	DEWATs	0.028	Complying
152	Kolar	Srinivasapura	No	KUWS&DB	KUWS&DB	2) Near Unikili Village	Operational	0.117	DEWATs	0.03	Complying
153	Kolar	Srinivasapura	No	KUWS&DB	KUWS&DB	3) Near Nallapalli	Operational	0.107	DEWATs	0.021	Complying
154	Kolar	Srinivasapura	No	KUWS&DB	KUWS&DB	4) Near Byrapalli Village	Operational	0.057	DEWATs	0.011	Complying
155	Kolar	Malur	No	KUWS&DB	Concerned ULB	Malur town,Kadadenahalli	Operational	4	SBR	2	Complying
156	Chikkaballapur	Chintamani	No	KUWS&DB	Concerned ULB	Near Gopasandra Tank	Operational	2	WSP	2	Complying
157	Chikkaballapur	Shidalghatta	No	KUWS&DB	Concerned ULB	Bellutti lake	Operational	3.1	WSP	1.6	Complying
158	Bijapur	Basavana Bagewadi	No	KUWS&DB	KUWS&DB	Jainapur	Operational	0.25	MBBR	0.2	Complying
159	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
160	Bagalkote	Hungund	No	KUWS&DB	Concerned ULB	Ramawadagi Village Road	Non-operational	3.50	WSP	0	na
161	Gadag	Naragund TMC	No	KUWS&DB	KUWS&DB	In Hirehal	Non-operational	4.18	WSP	0	na

162	Kalburgi	TMC, Jewargi	Yes	KUWS&DB	Concerned ULB	Jewargi Town Near Kalaburagi Road	Non-operational	3.25	WSP	0	na
163	Shivamogga	Shikaripura	No	KUWS&DB	KUWS&DB	Ambaragoppa Village Cross	Non-operational	5.00	SBR	0	na
164	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
165	Belagavi	Ramdurga	Yes	KUWS&DB	KUWS&DB	Halagatti	Non-operational	3.30	WSP	0	na
166	Dakshina Kannada	Sullia	No	KUWS&DB	Concerned ULB	Oldgate,Hosagadde, Sullia	Non- Operational	2	Oxidation Pond	0	na
167	Bagalkote	Guledgudda	No	ULB	Concerned ULB	Padanakatti Village	Non-operational	4	oxidation pond	0.000	na
168	Bagalkote	Bagalkote	No	ULB	Concerned ULB	near APMC Bagalkote	Operational	12.5	oxidation pond	6.500	Complying
169	Vijaypur	Basavana Bagewadi	No	KUWS&DB	KUWS&DB	Savalhalla Tanda	Operational	0.25	MBBR	0.2	Complying
2787.463										1958.584	

Annexure-2

List of existing STPs in 17 PRS

Sl. no.	District	ULB	Is ULB under 17 Polluted River Stretch?	Implementing agency		Address of the STP	Status	STP Installed Capacity (MLD)	Technology	STP capacity utilization (MLD)	Status of Complying
1	Bangalore	Bangalore Urban	Yes	BWSSB	BWSSB	V Valley	Operational	150	ASP	125	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	41.95	Complying
4	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Doddabele	Operational	20	SBR	20.44	Complying
5	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Kempambudhi	Operational	1	EA	1.01	Complying
6	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Kengeri	Operational	60	ASP	41.95	Complying
7	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Mailsandra	Operational	75	EA	77.04	Complying
8	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Mallathahalli	Operational	5	SBR	4.78	Complying
9	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Nagasandra	Operational	20	SBR	15.57	Complying
10	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	Nagasandra	Operational	20	Extended Aeration	15.57	Complying
11	Bengaluru	Bangalore Urban	Yes	BWSSB	BWSSB	V Valley	Operational	180	Trickling process	37.11	Complying
12	Uttarakannada	Karwar	Yes	KUIDFC	Concerned ULB	Gandhi nagar Near KEB Karwar	Operational	1.5	Aerator Lagoon	1.500	Complying
13	Davangere	Davangere	Yes	KUIDFC	Concerned ULB	Shivanagar, Davanagere	Operational	20	SBR	20.000	Complying
14	Davangere	Davangere	Yes	KUIDFC	Concerned ULB	Avaragere	Operational	5	SBR	2.500	Complying
15	Davangere	Davangere	Yes	KUIDFC	Concerned ULB	Shivanagar	Operational	20	SBR	15.000	Complying
16	Davangere	Harihara	Yes	KUIDFC	Concerned ULB	Harlapura	Operational	18	FAL	4.000	Complying
17	Haveri	Ranebannur	Yes	KUIDFC	Concerned ULB	Hunatti	Operational	7.5	FAL	7.500	Complying
18	Haveri	Ranebannur	Yes	KUIDFC	Concerned ULB	Hunatti	Operational	7.5	FAL	2.500	Complying
19	Bagalkote	Rabkavi Banahatti	Yes	KUIDFC	Concerned ULB	Near Gattagi, Basaveshwara road	Operational	9.2	SBR	2.000	Complying
20	Hassan	Hassan	Yes	KUWS&DB	Concerned ULB	Bittagowdanahalli	Operational	10	WSP	9.3	Complying
21	Hassan	Belur	Yes	KUWS&DB	Concerned ULB	Hole Beedhi	Operational	2.4	WSP	2.1	Complying
22	Hassan	Belur	Yes	KUWS&DB	Concerned ULB	Behind Ayyappa Swamy Temple	Operational	0.3	WSP	0.3	Complying
23	Mandya	Srirapatna	yes	KUWS&DB	Concerned ULB	Chandagalu road Ganjam, Srirangapatna	Operational	1.39	WSP	1.39	Complying
24	Mandya	Srirangapatna	yes	KUWS&DB	Concerned ULB	Chandagalu road Ganjam, Srirangapatna	Operational	2.21	WSP	1.63	Complying
25	Mandya	Maddur	yes	KUWS&DB	Concerned ULB	Hole Anjananeya Temple	Operational	3.5	WSP	2.4	Complying
26	Mysore	Nanjangudu	yes	KUWS&DB	Concerned ULB	Goluru	Operational	7	WSP	3.3	Complying
27	Mysore	Bannuru	yes	KUWS&DB	Concerned ULB	Chamanahalli	Operational	2.25	WSP	1	Non-complying
28	Chamarajnagar	Kollegala	yes	KUWS&DB	KUWS&DB	Kollegala- Mulluru Road	Operational	9	Aerated lagoon	6	Complying
29	Mysore	T Narsipura	yes	KUWS&DB	Concerned ULB	Near KSRTC Bus stand (Constructed)	Operational	5.5	SBR	3.67	Complying
30	Mysore	Hunsuru	yes	KUWS&DB	Concerned ULB	Kalkunike	Operational	3.9	WSP	3.9	Complying
31	Dharwad	Subramanya	Yes	KUWS&DB	Concerned ULB	Back side of Subramanyeshwara	Operational	2.6	Aerated Lagoon	1	Complying
32	Ramanagara	Kanakapura	Yes	KUWS&DB	Concerned ULB	Aralalu Village	Operational	6.29	WSP	3.3	Complying
33	Ramanagara	Ramanagara	Yes	KUWS&DB	Concerned ULB	Kumbapura	Operational	7.56	Aerated Lagoon	6.24	Complying
34	Shivamogga	Shivamogga	Yes	KUWS&DB	KUWS&DB	Purle	Operational	5.13	SBR	0.52	complying
35	Shivamogga	Shivamogga	Yes	KUWS&DB	Concerned ULB	Near Thyavarechatnalli	Operational	35.58	Aerated Lagoon	24	Complying
36	Shivamogga	Bhadravathi	Yes	KUWS&DB	KUWS&DB	Near APMC yard	Operational	7.2	WSP	2	Complying
37	Shivamogga	Bhadravathi	Yes	KUWS&DB	Concerned ULB	Jatpat Nagara	Operational	5.83	WSP	4.8	Complying

38	Shivamogga	Bhadravathi	Yes	KUWS&DB	KUWS&DB	At Ujjinipura	Operational	1	SBR	0.05	Complying
39	Davangere	Honnali	Yes	KUWS&DB	Concerned ULB	Malladevarakatte	Operational	3.3	WSP	0.9	Complying
40	Belagavi	Chikodi	Yes	KUWS&DB	Concerned ULB	HIREKODI	Operational	5.8	WSP	2.7	Non-complying
41	Belagavi	Sadalga	Yes	KUWS&DB	KUWS&DB	Dattawad Road Honde	Non-Operational	3.72	Aerated	0	na
42	Vijayanagara	TMC, Huvina Hadagali	Yes	KUWS&DB	Concerned ULB	2nd Ward Navali Road Near Old Filter House	Operational	4.27	Waste Stabilization	3.5	Complying
43	Davangere	Davanagere	yes	KUWS&DB	Concerned ULB	Kundavada	Operational	14.8	WSP	12	Complying
44	Kalburgi	TMC, Jewargi	Yes	KUWS&DB	Concerned ULB	Jewargi Town Near Kalaburagi Road	Non-operational	3.25	WSP	0	na
45	Belagavi	Ramdurga	Yes	KUWS&DB	KUWS&DB	Halagatti	Non-operational	3.30	WSP	0	na
821.78									536.30		

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	Bidar	Humnabad	No	KUIDFC	Concerned ULB	Dummanasoor village, Chinnakera Road, Near Forestry Nursery	Non-operational	6	WSP	HSC	Action will be taken to provide HSC connection
2	Haveri	Haveri	No	KUIDFC	Concerned ULB	Siddevapure	Non-operational	4.71	FAL	STP rectification and HSC	Revised Estimate for rehabilitation of STP is being prepared.
3	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.	Dr. Mohan Kumar from IISc, Bengaluru visited the site on 29.07.2022 & Report is awaited.
4	Bagalkote	Hungund	No	KUWS&DB	Concerned ULB	Ramawadagi Village Road	Non-operational	3.50	WSP	HSC	Estimate for providing HSC's is prepared for Rs.874 Lakhs and approval is awaited
5	Gadag	Naragund TMC	No	KUWS&DB	KUWS&DB	In Hirehal	Non-operational	4.18	WSP	HSC's are not provided in the scheme	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
6	Kalburgi	TMC, Jewargi	Yes	KUWS&DB	Concerned ULB	Jewargi Town Near Kalaburagi Road	Non-operational	3.25	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.
7	Shivamogga	Shikaripura	No	KUWS&DB	KUWS&DB	Ambaragoppa Village Cross	Non-operational	5.00	SBR	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.
8	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 maintenance 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.
9	Belagavi	Ramdurga	Yes	KUWS&DB	KUWS&DB	Halagatti	Non-operational	3.30	WSP	HSC's are not provided in the scheme.	Action plan has been approved for Rs. 131.43 lakhs for providing UGD HSC under Nagarothana (Phase-4). Work will be taken up after tendering process by Ramadurga TMC. Improvement works of STP are under progress by KUWS&DB for estimated amount of Rs. 789 lakhs (revised estimate of Rs. 1818 lakhs).
10	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
11	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

12	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.	The Commissioner, Ullala CMC has been requested to take up the works of House service connections several times vide letters dated: 25-10-2021, 20-11-2021 & 27-04-2022, so far the HSC works are not taken up. Further, in the meeting held on 09-11-2022 in the chamber of the Secretary, Urban Development Dept., Bengaluru, the UD Secretary, has directed the Commissioner, Ullala CMC to do necessary arrangements to provide House service connections.
13	Dharwad	Hubballi	No	KUWS&DB	KUWS&DB	Tolanakeri, Akshaya colony, Hubballi	Non-Operational	1	Phytorid	The STP is shutdown due to heavy rains and flooding.	Action has been taken to rectify the pumps and panels.

47.01

Annexure-4

List of Under Construction STPs in Karnataka											
Sl. No.	ULB name	is ULB under 17 PRS?	Implementing agency	STP location	Proposed capacity (MLD)	Technology used	Status of the project	Physical progress as on 30/11/22	Proposed date of completion	Reason for Slow progress	Remark
1	Bangalore Urban	No	BWSSB	Puttenahalli	7	SBR	Under construction	75%	31-03-2023	Due to heavy rain and site soil condition	
2	Bangalore Urban	No	BWSSB	Kaggadasapura	5	SBR	Under construction	8%	-	Due to land issue	Work Started
3	Bangalore Urban	No	BWSSB	Hesaraghatta	3	SBR	Under construction	20%	31-07-2023	Due to heavy rain and site soil condition	
4	Bangalore Urban	No	BWSSB	Pillaganahally	4	SBR	Under construction	30%	01.01.2024		work is under progress and will be completed within stipulated period
5	Bangalore Urban	No	BWSSB	Varthur	25	SBR	Under construction	Land issue	01.01.2024	Land issue	
6	Bangalore Urban	No	BWSSB	Talaghattapura	5	SBR	Under construction	33%	01.01.2024		work is under progress and will be completed within stipulated period
7	Bangalore Urban	No	BWSSB	Nagasandra	9	SBR	Under construction	27%	01.01.2024		work is under progress and will be completed within stipulated period
8	Bangalore Urban	No	BWSSB	Herohally	3	SBR	Under construction	10%	01.01.2024	LDA -objection to construct STP in designated place.	Land issue
9	Bangalore Urban	No	BWSSB	Karihobanahally	10	SBR	Under construction	20%	01.01.2024		work is under progress and will be completed within stipulated period
10	Bangalore Urban	No	BWSSB	Chikkabanavara	4	SBR	Under construction	21%	01.01.2024		
11	Bangalore Urban	No	BWSSB	Hosahally	6	SBR	Under construction	18%	01.01.2024		
12	Bangalore Urban	No	BWSSB	Hemmigepura	13	SBR	Under construction	27%	01.01.2024		
13	Bangalore Urban	No	BWSSB	Somapura	8	SBR	Under construction	10%	01.01.2024		Land issue
14	Bangalore Urban	No	BWSSB	Bilishivale	17	SBR	Under construction	25%	06.01.2024		work is under progress and will be completed within stipulated period
15	Bangalore Urban	No	BWSSB	Doddabetta hally	7	SBR	Under construction	27%	06.01.2024		
16	Bangalore Urban	No	BWSSB	Jakkur	7	SBR	Under construction	27%	06.01.2024		
17	Bangalore Urban	No	BWSSB	Yelahanka	6	SBR	Under construction	22%	06.01.2024		

18	Kolar	No	KUWS&DB	Chinnapura tank, Manighatta main Road ,gandhi nagara kolar	8.00	SBR	Under construction	0%	31-05-2023	STP work at Chinapura tank bed couldnot take up due to opposition by the Chinnapura village Public and Panchayat members	UGD network and HSC's completed.
19	KGF(Robertsonpet)	No	KUWS&DB	Parandahalli Tank	5.00	MBBR	Under construction	80%	31-12-2022	Slow progress by agency Delay by the Agency, Hence LD of Rs.56.17 Lakhs Is levied on agency.	
20	Bagepalli	No	KUWS&DB	Kurlakunte Kere	4.30	SBT	Under construction	70%	31-12-2022	Delay by the agency. EOT will be submitted shortly by proposing Liquidate damages.	Concreting works completed, Finishing works are in progress
21	Bagepalli	No	KUWS&DB	Reddy kere	0.55	SBT	Under construction	0%	28-02-2023	Modified Structural designs is yet to be submitted by Agency	
22	Hosakote	No	KUWS&DB	Chikkakere	8.52	SBR	work stopped due to shortage of fund	60%	March, 2024	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.	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
23	Hosadurga	No	KUWS&DB	Goravinakallu village	3.30	SBR	Under construction	100%	-	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.
24	Sagar	No	KUWS&DB	Shiravala	9.00	SBR	Under construction	100%	-	Delay in issuing CFE from KSPCB, delay due to heavy rainfall, delay by Agency, etc.	The construction work completed on 30/4/2022.Trial run conducted on 05.01.2022. Connections to UGD network has to be taken up by ULB which is under process. The network is proposed to be commissioned during March 2023.
25	Tumkur	No	KUWS&DB	Bheemsandra	25.00	SBR	Under construction	85%	31/12/2022	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.	Civil works completed. Finishing work is under progress. Electromechanical components are supplied and to be fixed.
26	Madhugiri	No	KUWS&DB	Solid Waste Management Area (4MLD)	4.00	MBBR	Under construction	85%	31/12/2022	Delay by the Agency, Hence LD of Rs.7,85,488.00 Is levied on agency. Delay due to COVID lockdown	Civil works completed. Finishing work is under progress. Electromechanical components are supplied and to be fixed.
27	Madhugiri	No	KUWS&DB	Lingenahalli Pavagada road (0.6MLD)	0.60	MBBR	Under construction	85%	31/12/2022		Civil works completed. Finishing work is under progress. Electromechanical components are supplied and to be fixed.
28	Madhugiri	No	KUWS&DB	Siddapura Sira road(80KLD)	0.08	NEBR	Under construction	0%	NA	As the land for construction of 80KLD STP of NEBR Technology is not handed over by ULB, it is proposed to drop the STP and divert the sewage to 0.6MLD STP by pumping from the last Manhole.	Construction of 80KLD will not be taken up as the land is not handed over by ULB.

29	Madikeri	No	KUWS&DB	K.Badaga village near Golf ground	4.50	SBT	Under construction	10%	31.12.2023	The work of construction of 3.0MLD capacity SBT type STP is delayed due to non-availability of approach road to construction site. An alternative road to the construction site was identified during March-2021 and earthwork excavation for Bioreactors is completed. But the works had to be stopped due to monsoon and due to interference from neighbouring land owners. Works can be taken up after the land is notified in the name of CMC, Madikeri. The land acquisition is being prepared by Tahshildar, Madikeri.	Survey was conducted by revenue department on 28-09-2022 for acquisition of private land for constructing approach road to STP site. The land acquisition is being prepared by Tahshildar, Madikeri.
30	Kushalnagar	No	KUWS&DB	Gummankolli village	6.50	SBT	Under construction	80%	31.03.2023	The progress of works hampered due to heavy rain during Monsoon (June 2022 to August 10th 2022). At present the works are under progress.	Under Package-1 Sewer line of 71.87 Kms and House Service connections- 6096 nos are completed. 11 KV work and Erection of pumping machineries to wetwell 2 & 3 is under progress
31	Periyapatna	No	KUWS&DB	Keernalli village	4.20	SBR	Under construction	90%	31/03/2023	Now the work is in progress. Initially, the STP work is not taken up by the agency as the variation is not approved for change in Technology.	In the tender there is a provision for Aerated lagoon, since the area for construction of Aerated lagoon is more and also the villagers are agitated for the above work. Hence the new technology SBR is adopted as per the recommendation of KSPCB. After obtaining the approval for new technology, work has been started. SBR basin, PTU, Admin building, Chlorine contact tank & Chlorine room finishing works are under progress.
32	Maddur	Yes	KUWS&DB	Near Hole Anjaneya Temple	2.50	Aerated Lagoon	STP trail run and partially commissioned on 08.03.2022	95%	14-01-2023	Delay in commissioning of 11Kv power line	STP trail run and partially commissioned on 08.03.2022
33	Hassan	Yes	KUWS&DB	Near Bittgondanahalli	10.00	SBR	Under construction	22%	18.01.2024	Slow progress by agency.	Existing 10 MLD WSP STP is proposed to be upgraded to 20 MLD with SBR technology under NGT . Sewer network - work is under progress.
34	Hassan	Yes	KUWS&DB	Near KSRTC Bus Stand (Channapatna tank bed)	10.00	SBR	Under construction	4%	18.01.2024	Delay in handing over of land from ULB. Works under progress.	Ready for PCC.
35	Hassan	Yes	KUWS&DB	Hunasina kere	5.00	SBR	Under construction	2%	18.01.2024	Delay in handing over of land from ULB. Works under progress.	Leveling work under progress
36	Belur	Yes	KUWS&DB	At existing 2.40 MLD WSP type STP (Holle bidi)	2.60	SBR	Under construction	43%	20.1.2023	STP land handed over during April 2022.	Existing 2.40 MLD STP with WSP is upgraded to 5.00 MLD with SBR technology. STP works are under progress.
37	Channarayapatna	No	KUWS&DB	Udayagiri Badavane	0.25	SBR	Under construction	80%	31.03.2023	1. Delay in getting the clearance from the KSPCB. 2. Land problem for laying 50mtr sewer pipeline near Natural Nala	Work under progress

38	Belthangady	No	KUWSDB	Solid waste dumping yard, Koyyur.	0.01	FSTP	Under construction	85%	31-03-2023	Work started. But due to public protest, alternative site for construction of FSTP is handed over by the local body on 19-05-2022. Work is in progress	Civil components of FSTP are completed. ACF & PCF units erection under progress.
39	Hunsuru	Yes	KUWS&DB	Kalkunike	8.00	SBR	Under construction	22%	31-03-2023	Sites are handed over to agency during March 2022. Delay is due to heavy rains from June to September	Work started. Raft concreting of SBR basins completed. Providing & laying of Rising main, Wetwell -4 & Wetwell-5 works under progress.
40	Bannuru	Yes	KUWS&DB	Chamnahalli near Mandya Road	1.55	SBT	Under construction	60%	31.03.2023	Site allocation is pending for 0.65, 0.23 MLD STP's and 2 No's of wetwells.	Construction of 8.0 mtr wetwell cum pumphouse in zone-4 & Providing and laying of 400 mm dia DI pipe (K-7 class) & 8 MLD STP work is in progress.
41	Bannuru	Yes	KUWS&DB	Bismilla Nagar	0.65		Under construction	25%	31.03.2023		
42	Bannuru	Yes	KUWS&DB	Chamnahalli Gudda	0.65		Under construction	0	31.03.2023		
43	Bannuru	Yes	KUWS&DB	Ashraya Badavane Makaanahalli	0.23		Under construction	0	31.03.2023		
44	Bannuru	Yes	KUWS&DB	Near Kaveri Circle	0.15		Under construction	5%	31.03.2023		
45	Nanjangudu	Yes	KUWS&DB		1.00	SBT	Under construction	38%	31.03.2023	Site allocation pending for 0.3MLD STP's and Wetwell 0.2 MLD STP site was Handed over, Work has to be started.	The sewer network and HSC work is in progress. Upgradation of 7.00 MLD STP to 8.00 MLD SBT type STP work is in progress.
46	Nanjangudu	Yes	KUWS&DB		0.20	SBT	--	0			
47	Nanjangudu	Yes	KUWS&DB		0.30	SBT	--	0			
48	Sriragapatna	Yes	KUWS&DB	Chandagal road	1.40	SBR	Under construction	1%	08.05.2023	Slow progress by agency	Hydraulic design and drawing of STP has been approved vide CE, Mysuru letter No.895 dtd:02.09.2022
49	Maddur	Yes	KUWS&DB	Channegowdanad oddi	0.50	MBBR	Under construction	--	02.07.2023	-	The agency has concluded agreement on 03.10.2022. The agency has to start the work.
50	Hassan	Yes	KUWS&DB	Jayanagar	2.00	MBBR	Under construction	--	18.01.2024	Work order issued on 19.01.2022. There was delay in handing over of land for construction of STP. Work is under progress	
51	Dandeli	Yes	KUWS&DB	Kerwadi (Halmaddi village)	8.00	SBR	Under construction	96%	01.05.2023	1. CMC Dandeli has handed over the land on Dtd:01.09.2020. 2. Civil work is completed.Delay is due to procurement of electromechanical items by the agency.	Expected date of completion is 31/12/2022.
52	Dandeli	Yes	KUWS&DB	Nirmal nagar Janata colony-	0.50	Phytorid	Under construction	91%	01.05.2023	CMC Dandeli has handed over the land on Dtd:28.08.2020.	work is in progress
53	Ramdurga	Yes	KUWS&DB	Padukote	1	MBBR	Completed	100%	Completed on 30.06.2022	Completed .	Completed on 30.06.2022
54	Belagavi	No	KUWS & DB	Halaga	70.00	SBR	Under construction	38%	31.03.2023	Delayed to due to rain & slow progress by the agency	
55	Kumta	No	KUWS&DB	Gund, Shashihittal	4.60	SBR	Under construction	0	31.12.2023	1. CRZ clearance obtained on Dtd:23.03.2022. 2. In order to start the STP work, approval to revised estimate is essential. The Revised Estimate is under scrutiny at e O/o the CE DWD	—
56	Honnavaara	No	KUWS&DB	Udhyam Nagar	2.60	SBR	Under construction	0	31.05.2023	Agitation from local public to start the work.	—

57	Honnava	No	KUWS&DB	Jeevan jyothi	0.20	MBBR	Under construction	0	31.05.2023	Agitation from local public to start the work.	The zone of 0.2 MLD STP is not yet tackled.It is decided to commission the tackled works by restricting the estimated cost.Hence the 0.2 MLD capacity STP is deleted.
58	Bhatkal	No	KUWS&DB	Venkatapura	3.00	SBR	Under construction	79%	31.12.2023	The sewer network laying work is very slow as the local public is agitating.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
59	Bhatkal	No	KUWS&DB	Gousia street	2.50	MBBR	Under construction	0	31.12.2023	Private Land identified and land is to be handed over by TMC Bhatkal.	—
60	Jali	No	KUWS&DB	Venkatapura	3.00	SBR	Under construction	38%	30.06.2023	The proposed STP sites for Bhatkal and Jali towns are adjacent to each other.Due to the site constraints , civil works of STP will be tackled after completion of Bhatkal STP.	work is in progress
61	Haliyal	No	KUWS&DB	Hullatti Village	3.50	SBR	Under construction	0	01.10.2023	For Diversion of forest land, proposal is re submitted to CCF Sirsi by DFO Haliyal on 18.07.2022 and the Clearance is awaited.	work is in progress
62	Haliyal	No	KUWS&DB	DK halli road	0.75	Phytorid	Under construction	55%	01.10.2023	Proposed land pertains to forest dept.Sheesam and mango tree cutting in the proposed site is done by forest department on Feb 2022.After that lineout is given to agency.	—
63	Sindhagi	No	KUWS&DB	Sindagi Almel Road	7.37	WSP	Under construction	87%	2.12.2022	Work under progress	—
64	Muddebihal	No	KUWS&DB	Near Mudnal MI pond	5.24	SBT	Under construction	100%	work completed	STP work completed & linking of rising main is under progress	—
65	Ainapur	Yes	KUWS&DB	Revenue Land near Harijankeri	1.66	MBBR	Under construction	0	20.04.2023	STP land approval is awaited from the Revenue Dept.	STP Plant supplied. Work under progress
66	Kudachi	Yes	KUWS&DB	Dadi Nagar Near Railway Track	2.03	MBBR	Under construction	0	20.04.2023	Land handed over on 18.05.2022.STP Plant supplied.	STP Plant supplied. Work under progress
67	MK Hubballi	Yes	KUWS&DB	On Bailhongal Road	0.50	MBBR	Under construction	0	24.02.2023	Site is handed yet to hand over to agency . Performa bill for purchase is submitted to CAO.	—
68	MK Hubballi	Yes	KUWS&DB	Near Katyankere	0.25	MBBR	Under construction	0	24.02.2023	Slow progress by the contractor	work is completed upto foundation level for RCC platform.
69	Soudatti	Yes	KUWS&DB	Kenchalarkoppa Road	3.50	SBR	Under construction	0	21.04.2023	Slow progress by the contractor	Work under progress
70	Munavalli	Yes	KUWS&DB	Near Grave Yard	1.00	MBBR	Under construction	0	27.04.2023	Slow progress by the contractor	Slow progress by the contractor
71	Munavalli	Yes	KUWS&DB	Near Panchalingeshwar Temple	0.25	MBBR	Under construction	0	27.04.2023	Slow progress by the contractor	Slow progress by the contractor
72	Ugarkhurd	Yes	KUWS&DB	Jamakhandi Kudachi Road	2.10	MBBR	Under construction	0	17.07.2023	Awaiting for Revenue Sketch for Purchase of land through consent award.	—
73	Khanapur	Yes	KUWS&DB	Jain Layout	0.50	MBBR	Under construction	0	27.04.2023	Slow progress by the contractor	Slow progress by the contractor
74	Khanapur	Yes	KUWS&DB	Jain Layout	0.50	MBBR	Under construction	0	27.04.2024	Slow progress by the contractor	Slow progress by the contractor
75	Sedam	No	KUWS&DB	Sy.No 239/2, Sedam Village, Taluka Sedam	9.00	SBR	Under construction	95%	31.03.2023	1. Objection by land for laying of sewage pumping main and RCC outfall sewerline. 2. The Pumping machinery agency is not responding. Hence final notice is issued to the agency for commencement of work.	The civil works are almost complete, the electro-mechanical erection works are under progress.

76	Ballari City Corporation	No	KUWS&DB	Talur Road, Ballari	2.00	SBR	Under construction	96%	28-02-2023	1. Land for Wetwell construction was delayed to handed over to Board. 2. Dispute land issues for outfall sewer alignment. 3. Due to DI rising main alignment problems from wetwell to STP. 4. Approval for design and drawing of wetwell pumping mechanaries delayed.	Civil works completed, Electro-mechanical erection works under progress.
77	Bidar CMC	No	KUWS&DB	Sy. No.107/1,107/2,108/2,108/3 of Naubad village of Bidar City	7.00	SBR	Under construction	92%	30-12-2022	Delay due to Lockdown imposed by Govt of India due to COVID-19.	Civil works under progress, supply of electro-mechanical works under progress.
78	Sandur TMC	No	KUWS&DB	Sy.No.209, Near Nandihalli PG Center, Sandur	0.55	SBR	Under construction	0	13/01/2023	Due to Land issue	On 12.11.2021 EE, Ballari inspected along with Chief officer, TMC sandur & land owner at site as agreed to handover the approach road within 22.11.2021 & regarding 3 Nos of wetwell & 0.55MLD STP visted to Tahsildhar office sandur, requested & insisted Tahsildhar Madam to hand over the site, & Tahsildhar said, it will be processed at the earliest.
79	Sandur TMC	No	KUWS&DB	Sy.No.274, Bhujanganagar Road, Sandur	6.00	SBR	Under construction	0	13/01/2023		
80	TMC Jewargi	Yes	KUWS & DB	Sy.No 21 Jewargi Kalburgi Road	5.83	SBR	Under construction	30%	30/06/2023	1. Due to delay in fixing of boundary stones for demarcation of STP Land by Revenue department . the Boundary stones Fixed on 12.01.2022 2. Gudli Pooja by the Honourable MLA Jewargi sir, President TMC Jewargi & Vice president Jewargi on dtd 23.04.2022 and Work started 3. due to frequent obstructions/objections for execution of work during execution of work by the Land owner for payment of Higher compensation.	1) Wetwell structural design and drawwing and GA drawing Approved from CE sir on 06.07.2022 2) Test pile conducted on 01.08.2022 and driving of pile is failed due to Sandy soil and watery situation. The soil is collapsing after removal of auger bore. Hence it is decided to go for open foundation and the agency is instructed to submit revised design and drawing for STP building & SBR Basin hence agency submitted revised BEP & Structural design ,drawing for STP building & SBR basin on 07.09.2022. It is instructed to the PMC to forward the designs to consultant for vetting of the structural designs.
81	Bagalkote	NO		Sector no.62 at Navanagara	11.20	SBR	Under construction	100%	31.05.2022 under commissioning stage	UGD network and HSC's work under progress	

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Annexure-5

List of Under Construction STPs in 17 PRS

Sl. No.	ULB name	is ULB under 17 PRS?	Implementing agency	STP location	Proposed capacity (MLD)	Technology used	Status of the project	Physical progress as on 30/11/22	Proposed date of completion	Reason for Slow progress	Remark
1	Maddur	Yes	KUWS&DB	Near Hole Anjaneya Temple	2.50	Aerated Lagoon	STP trail run and partially commissioned on 08.03.2022	95%	14-01-2023	Delay in commissioning of 11Kv power line	STP trail run and partially commissioned on 08.03.2022
2	Hassan	Yes	KUWS&DB	Near Bittgondanahalli	10.00	SBR	Under construction	22%	18.01.2024	Slow progress by agency.	Existing 10 MLD WSP STP is proposed to be upgraded to 20 MLD with SBR technology under NGT . Sewer network - work is under progress.
3	Hassan	Yes	KUWS&DB	Near KSRTC Bus Stand (Channapatna tank bed)	10.00	SBR	Under construction	4%	18.01.2024	Delay in handing over of land from ULB. Works under progress.	Ready for PCC.
4	Hassan	Yes	KUWS&DB	Hunasina kere	5.00	SBR	Under construction	2%	18.01.2024	Delay in handing over of land from ULB. Works under progress.	Leveling work under progress
5	Belur	Yes	KUWS&DB	At existing 2.40 MLD WSP type STP (Holle bidi)	2.60	SBR	Under construction	43%	20.1.2023	STP land handed over during April 2022.	Existing 2.40 MLD STP with WSP is upgraded to 5.00 MLD with SBR technology. STP works are under progress.
6	Hunsuru	Yes	KUWS&DB	Kalkunike	8.00	SBR	Under construction	22%	31-03-2023	Sites are handed over to agency during March 2022. Delay is due to heavy rains from June to September	Work started. Raft concreting of SBR basins completed. Providing & laying of Rising main, Wetwell -4 & Wetwell-5 works under progress.
7	Bannuru	Yes	KUWS&DB	Chamnahalli near Mandya Road	1.55	SBT	Under construction	60%	31.03.2023	Site allocation is pending for 0.65, 0.23 MLD STP's and 2 No's of wetwells.	Construction of 8.0 mtr wetwell cum pumphouse in zone-4 & Providing and laying of 400 mm dia DI pipe (K-7 class) & 8 MLD STP work is in progress.
8	Bannuru	Yes	KUWS&DB	Bismilla Nagar	0.65		Under construction	25%	31.03.2023		
9	Bannuru	Yes	KUWS&DB	Chamnahalli Gudda	0.65		Under construction	0	31.03.2023		
10	Bannuru	Yes	KUWS&DB	Ashraya Badavane Mekanahalli	0.23		Under construction	0	31.03.2023		
11	Bannuru	Yes	KUWS&DB	Near Kaveri Circle	0.15		Under construction	5%	31.03.2023		
12	Nanjangudu	Yes	KUWS&DB		1.00	SBT	Under construction	38%	31.03.2023	Site allocation pending for 0.3MLD STP's and Wetwell	The sewer network and HSC work is in progress. Upgradation of 7.00 MLD STP to 8.00 MLD SBT type STP work is in progress.
13	Nanjangudu	Yes	KUWS&DB		0.20	SBT	--	0		0.2 MLD STP site was Handed over,	
14	Nanjangudu	Yes	KUWS&DB		0.30	SBT	--	0		Work has to be started.	
15	Sriragapatna	Yes	KUWS&DB	Chandagal road	1.40	SBR	Under construction	1%	08.05.2023	Slow progress by agency	Hydraulic design and drawing of STP has been approved vide CE, Mysuru letter No.895 dtd:02.09.2022
16	Maddur	Yes	KUWS&DB	Channegowdanadoddi	0.50	MBBR	Under construction	--	02.07.2023	-	The agency has concluded agreement on 03.10.2022. The agency has to start the work.

17	Hassan	Yes	KUWS&DB	Jayanagar	2.00	MBBR	Under construction	--	18.01.2024	Work order issued on 19.01.2022. There was delay in handing over of land for construction of STP. Work is under progress	
18	Dandeli	Yes	KUWS&DB	Kerwadi (Halmaddi village)	8.00	SBR	Under construction	96%	01.05.2023	1. CMC Dandeli has handed over the land on Dtd:01.09.2020. 2. Civil work is completed.Delay is due to procurement of electromechanical items by the agency.	Expected date of completion is 31/12/2022.
19	Dandeli	Yes	KUWS&DB	Nirmal nagar Janata colony-	0.50	Phytorid	Under construction	91%	01.05.2023	CMC Dandeli has handed over the land on Dtd:28.08.2020.	work is in progress
20	Ramdurga	Yes	KUWS&DB	Padukote	1	MBBR	Completed	100%	Completed on 30.06.2022	Completed .	Completed on 30.06.2022
21	Ainapur	Yes	KUWS&DB	Revenue Land near Harijankeri	1.66	MBBR	Under construction	0	20.04.2023	STP land approval is awaited from the Revenue Dept.	STP Plant supplied. Work under progress
22	Kudachi	Yes	KUWS&DB	Dadi Nagar Near Railway Track	2.03	MBBR	Under construction	0	20.04.2023	Land handed over on 18.05.2022.STP Plant supplied.	STP Plant supplied. Work under progress
23	MK Hubballi	Yes	KUWS&DB	On Bailhongal Road	0.50	MBBR	Under construction	0	24.02.2023	Site is handed yet to hand over to agency . Performa bill for purchase is submitted to CAO.	—
24	MK Hubballi	Yes	KUWS&DB	Near Katyankere	0.25	MBBR	Under construction	0	24.02.2023	Slow progress by the contractor	work is completed upto foundation level for RCC platform.
25	Soudatti	Yes	KUWS&DB	Kenchalarkoppa Road	3.50	SBR	Under construction	0	21.04.2023	Slow progress by the contractor	Work under progress
26	Munavali	Yes	KUWS&DB	Near Grave Yard	1.00	MBBR	Under construction	0	27.04.2023	Slow progress by the contractor	Slow progress by the contractor
27	Munavali	Yes	KUWS&DB	Near Panchalingeshwar Temple	0.25	MBBR	Under construction	0	27.04.2023	Slow progress by the contractor	Slow progress by the contractor
28	Ugarkhurd	Yes	KUWS&DB	Jamakhandi Kudachi Road	2.10	MBBR	Under construction	0	17.07.2023	Awaiting for Revenue Sketch for Purchase of land through consent award.	—
29	Khanapur	Yes	KUWS&DB	Jain Layout	0.50	MBBR	Under construction	0	27.04.2023	Slow progress by the contractor	Slow progress by the contractor
30	Khanapur	Yes	KUWS&DB	Jain Layout	0.50	MBBR	Under construction	0	27.04.2024	Slow progress by the contractor	Slow progress by the contractor

31	TMC Jewargi	Yes	KUWS & DB	Sy.No 21 Jewargi Kalburgi Road	5.83	SBR	Under construction	30%	30/06/2023	1. Due to delay in fixing of boundary stones for demarcation of STP Land by Revenue department . the Boundary stones Fixed on 12.01.2022 2. Gudli Pooja by the Honourable MLA Jewargi sir, President TMC Jewargi & Vice president Jewargi on dtd 23.04.2022 and Work started 3. due to frequent obstructions/objections for execution of work during execution of work by the Land owner for payment of Higher compensation.	1) Wetwell structural design and drawwing and GA drawing Approved from CE sir on 06.07.2022 2) Test pile conducted on 01.08.2022 and driving of pile is failed due to Sandy soil and watery situation. The soil is collapsing after removal of auger bore. Hence it is decided to go for open foundation and the agency is instructed to submit revised design and drawing for STP building & SBR Basin hence agency submitted revised BEP & Structural design ,drawing for STP building & SBR basin on 07.09.2022. It is instructed to the PMC to forward the designs to consultant for vetting of the structural designs.
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Annexure-6

List of Proposed STPs in Karnataka

Sl. No.	ULB name	Is ULB under 17 polluted river stretch ? (Yes/No)	Technology of proposed STP	STP capacity Proposed (in MLD)	Status of the proposal as on 30.11.2022	Proposed date of completion	Remarks
1	Kanakapura	Yes	MBBR	0.30	Land aquisition	17/4/2023	LOA issued on 06/04/2022. Work order issued on 18/4/2022. Land is yet to be handed over by ULB.
2	Bidadi	No	SBR	6.20	Work Order issued	26/01/2024	Designs yet to be submitted by Agency
3	Bidadi	No	MBBR	0.10	Land aquisition		Yet to be handed over by TMC,Bidadi
4	Bidadi	No	MBBR	0.10	Land aquisition		Land belonging to Fishery department is to be handed over by TMC,Bidadi
5	Bidadi	No	MBBR	0.16	Work Order issued		Designs approved,land clearance completed, erection of the plant yet to be started by the agency
6	Hosakote	No	MBBR	1.82	Tender to be invited		Tender to be invited
7	Honnali	Yes	Upgradation of existing 3.3MLD WSP STP from WSP to NEBR technology	0.00	Work Order issued	09-05-2023	LOA issued on 07/04/2022. Work order issued on 10/05/2022.
8	Shivamogga	Yes	Upgradation of existing STP	0	Work Order issued	31/7/2023	LOA issued on 19/7/2022. work order issued on 1/8/2022
9	Bhadravathi	Yes	Upgradation of existing STP	0	Work Order issued	31/7/2023	LOA issued on 19/7/2022. Work order issued on 1/8/2022
10	Bhadravathi	Yes	Upgradation of existing STP	0	Work Order issued	31/7/2023	LOA issued on 19/7/2022. Work order issued on 1/8/2022
11	Sagar	No	NEBR	0.62	DPR under preparation	-	DPR to be prepared with technology which is having less constructional cost
12	Kunigal	No	MBBR	5.80	DPR submitted	-	Revised estimate submitted to GoK Vide ltr no.2712 dtd:25-01-2019 for approval
13	Gubbi	No	SBT	2.90	DPR submitted	-	Revised estimate submitted to GoK Vide ltr no.2350 dtd:18-12-2018 for approval
14	CN Halli	No	SBR	2.6	Work Order issued	12-07-2022	Agreement concluded on 13-07-2022. Design submitted. Land for Approach road to STP is yet to be handed over.
15	CN Halli	No	MBBR	0.1	Work Order issued	12-07-2022	Agreement concluded on 13-07-2022. Design submitted
16	CN Halli	No	MBBR	0.1	Work Order issued	12-07-2022	Agreement concluded on 13-07-2022. Design submitted. Land is yet to be handed over.
17	CN Halli	No	MBBR	0.715	Work Order issued	12-07-2022	Agreement concluded on 13-07-2022. Design submitted.Land is yet to be handed over.
18	Mulbagal	No	SBT	1.00	DPR under preparation	-	Due to revision of SR, the Revised Estimate (including 1 MLD STP) will be Re-casted and submitted shortly for approval.
19	CMC, Chintaman	No	SBR	6.40	DPR under preparation	-	4th Stage UGD scheme to Chintamani amounting to Rs. 2182.00 Lakhs has been submitted to CE for approval vide T.O ltr No: 228 Dtd: 09-06-2022. The consent for said scheme is obtained from TA/TSC meeting conveyed on 11-08-2022 and this proposal is to be submitted to Govt. for administrative approval.
20	CMC, Siddlaghatt	No	SBR	6.60	DPR submitted	-	The STP is proposed near existing STP at Belluti tank. The DPR project 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
21	Hassan	Yes	MBBR	2.00	Land aquisition	18.01.2024	
22	Pandavapura	No	SBT	3.00	Land aquisition	-	-
23	Bantwala	Yes	SBR	4.14	Land aquisition	-	Land required for the construction of Wetwell No.1, Wetwell No.2, STP-1 (Partly), Wetwell No.4(1) is handed over by Bantwala TMC to Board on 04-04-2022. Land required for the construction of Wetwell No.6 (Govt land) and Wetwell No.7 (Govt. land) are already handed over by Bantwala TMC to Board. PQ Tender invited for 5 nos of wetwells and the tender evaluation is under process.
24	Bantwala	Yes	SBR	0.22	DPR under preparation	-	Land for STP-2 (Private land) is handed over by TMC. STP -2 will be tackled under 3rd phase UGD scheme to Bantwala town.

25	Subramanya	Yes	SBR	0.00	DPR submitted	-	DPR amounting to Rs.523.00 lakhs for Upgradation of the existing STP of 2.60 MLD capacity Aerated Lagoon type STP to SBR is Administratively approved vide GO No. UDD-01/UWL 2019/ BHA-3, Bengaluru dated 25-03-2021 as per Hon'ble NGT directions. 8th call tender invited 06-05-2022 and the same is cancelled on 30-07-2022 as the quoted offer was on higher side. The revised estimate of the work amounting to Rs. 830.00 lakhs has been submitted to the Govt. for Administrative approval vide letter No. 1203 dated 21-10-2022 of the Managing Director, KUWS & DB, Bengaluru.
26	Arkalgud	No	WSP	1.00	Land aquisition	-	The land for construction of wetwell and STP not yet handed over by the local body. Work is in progress.
27	Arkalgud	No	WSP	1.50	Land aquisition	-	
28	Ullala	No	SBT	1.70	Land aquisition	-	
29	Kaup	No	SBR	0.30	Land aquisition		Land required for construction of STP has to be finalised by TMC, Kaup. Contract to be foreclosed.
30	Kundapur	No	SBR	2.80	Land aquisition	-	Tender to be invited. Land required for approach road to STP and wetwell -7 is to be handed over by TMC, Kundapura.
31	Kundapur	No	SBR	0.14	Land aquisition	-	Work not taken up due to non availability of land.
32	Kundapur	No	SBR	0.07	Land aquisition	-	-----do-----
33	Belluru	No	MBBR	1.35	DPR submitted	-	The DPR Rs. 6635.00 lakhs submitted to Govt vide Ltr No. 320/2021-22 Dt: 28.05.2022. Approval is awaited
34	Belluru	No	MBBR	1.35	DPR submitted	-	
35	Belluru	No	MBBR	1.35	DPR submitted	-	
36	Belluru	No	MBBR	0.30	DPR submitted	-	
37	Belluru	No	MBBR	0.10	DPR submitted	-	
38	Belluru	No	MBBR	0.10	DPR submitted	-	
39	Kushtagi	No	SBR	4.51	DPR submitted	-	
40	Kerur	No	SBR	3.50	DPR submitted	-	DPR submitted
41	Guledgudda	No	SBR	5.32	DPR submitted	-	DPR submitted
42	Mulagund TP	No	SBR	3.00	DPR submitted	-	DPR submitted
43	Karwar CMC	Yes	SBR	3.00	Land aquisition	-	Tenders cancelled. To be re-tendered after land acquisition for 3 nos. of wetwell.
44	Khanapura	Yes	SBR	3.70	DPR submitted	-	DPR of Rs. 6657.00 lakhs submitted to Govt vide Ltr No. 2026 Dtd : 08-11-2019
45	M.K.Hubli	Yes	SBR	4.40	DPR submitted	-	DPR Rs. 5466.00 lakhs submitted to Govt vide Ltr No. 1916 Dtd: 28-10-2019. Approval is awaited
46	Saundatti (TP)	Yes	MBBR	0.50	DPR submitted	-	DPR Rs. 10430.00 lakhs submitted to Govt vide Ltr No. 01 Dtd : 02-04-2019 and approval is awaited
47	Saundatti (TP)	Yes	SBR	8.50	DPR submitted	-	
48	Munavalli	Yes	SBR	5.30	DPR submitted	-	Estimate Rs. 6876.00 lakhs submitted to Govt vide Ltr No. 1917 Dtd: 28-10-2019 and Approval is awaited
49	Kudachi (TMC)	Yes	SBR	3.66	DPR submitted	-	Estimate Rs. 7341.00 lakhs submitted to Govt vide Ltr No. 1842 Dtd: 19-10-2019 and approval is awaited
50	Examba (TP)	Yes	MBBR	1.45	Work Order issued	-	LOA is issued on 07-10-2022 & Agreement yet to conclude.
51	Examba (TP)	Yes	SBR	2.61	DPR submitted	-	DPR Rs. 7372.00 lakhs submitted to Govt vide Ltr No. 1136 Dtd: 17-10-2020 and approval is awaited
52	Ainapur (TP)	Yes	SBR	4.37	DPR submitted	-	DPR Rs. 6988.00 lakhs submitted to Govt vide Ltr No. 1036 Dtd: 01-08-2019 and approval is awaited
53	Chinchili (TP)	Yes	MBBR	1.67	agreement is to be concluded	-	LOA is issued on 07-10-2022 & Agreement yet to conclude.
54	Chinchili (TP)	Yes	SBR	3.88	DPR submitted	-	DPR Rs. 6060.00 lakhs submitted to Govt vide No. 1137 Dtd: 17-10-2020 and approval is awaited
55	Karwar	Yes	SBR	7.00	DPR under preparation	-	
56	Karwar	Yes	Package plant	1.00	DPR under preparation	-	
57	Karwar	Yes	Package plant	1.00	DPR under preparation	-	
58	Hukkeri	No	SBR	3.87	DPR Approved	-	DPR is Approved for Rs. 6926.00 lakhs vide Govt Order No. UDD/7/UDS/2019, Bengaluru,Dtd: 18.08.2022
59	Sankeshwar	No	SBR	5.91	DPR submitted	-	DPR Rs. 9798.00 lakhs submitted to Govt vide No. 1013 Dtd: 08.10.2021 and Approval from Govt is awaited
60	Harugeri	No	SBR	6.38	DPR submitted	-	DPR Rs. 8595.00 lakhs submitted to Govt vide No. 2025 Dtd: 08-11-2019 and Approval from Govt is awaited
61	Athani	No	SBR	11.52	DPR submitted	-	DPR Rs. 22310.00 lakhs submitted to Govt vide No. 839 Dtd: 31.08.2020 and Approval from Govt is awaited
62	Annigeri	No	SBR	3.66	DPR submitted	-	DPR Rs. 9340.00 lakhs submitted to Govt vide Ltr No.1030 Dt: 01-08-2019 and approval is awaited

63	Hubli - Dharwad	No	SBR	4.00	DPR submitted	-	DPR Rs. 49291.00 lakhs submitted to Govt vide Ltr No. 251 Dt: 18-05-2020 Approval from Govt is awaited
64	Hubli - Dharwad	No	SBR	9.00	DPR submitted	-	
65	Hubli - Dharwad	No	SBR	3.00	DPR submitted	-	
66	Hubli - Dharwad	No	Phythorid	0.25	DPR submitted	-	
67	Hubli - Dharwad	No	Phythorid	0.50	DPR submitted	-	
68	Hubli - Dharwad	No	Phythorid	0.75	DPR submitted	-	
69	Hubli - Dharwad	No	Phythorid	1.00	DPR submitted	-	
70	CMC, Shahapura	No	SBR type	13.00	DPR submitted	-	DPR prepared for Rs.17260.00 Lakhs and Submitted to the Govt vide letter No.526 date : 15--07--2019 for Administrative Approval.
71	CMC, Shorapura	No	SBR type	7.50	DPR submitted	-	DPR prepared for Rs.5041.00 Lakhs and Submitted to the Govt vide letter No.1114 date : 13--11--2019 for Administrative Approval.
72	CMC, Shorapura	No	SBR type	1.00	DPR submitted	-	
73	CMC, Shorapura	No	SBR type	0.75	DPR submitted	-	
74	CMC, Shorapura	No	NEBR	0.15	DPR submitted	-	
75	TMC, Aland	No	SBR type	8.18	DPR submitted	-	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.
76	CCB, Ballari	No	SBR Type	2.00	DPR submitted	-	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
77	CCB, Ballari	No	SBR Type	2.00	DPR submitted	-	
78	CCB, Ballari	No	SBR Type	2.00	DPR submitted	-	
79	CCB, Ballari	No	SBR Type	4.50	DPR submitted	-	
80	CMC, Raichur	No	SBR Type	10.00	DPR under preparation	-	DPR under preparation
81	TMC, Deodurga	No	SBR Type	5.00	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.
82	TMC, Lingasugur	No	SBR Type	6.82	DPR submitted	-	Estimate amounting to Rs.9150.00 lakhs is submitted to the Govt. for administrative approval vide the Managing Director, KUWS & DB, Bengaluru ltr No: 897 Dated: 04-10-2019. The Estimate is returned from Govt Vide Letter no 21/UDS/2019, Dated 31.08.2020.
83	TMC, Siruguppa	No	Aerated Lagoons	8.03	DPR submitted	-	Estimate amounting to Rs.9150.00 lakhs was submitted to the Govt. for administrative approval vide the Managing Director, KUWS & DB, Bengaluru ltr No:3030 Dated: 12-01-2017. The Estimate is returned from Govt Vide Letter no 07 UDS 2016, Dated 27-08-2018.

246.07

Note:

DPR approved = 1

DPR submitted = 47

DPR under preparation = 8

Land acquisition = 14

Tendering = 1

Work Order issued = 11

agreement is to be concluded = 1

Annexure-7

List of Proposed STPs in 17 PRS

Sl. No.	ULB name	Is ULB under 17 polluted river stretch ? (Yes/No)	Technology of proposed STP	STP capacity Proposed (in MLD)	Status of the proposal as on 30.11.2022	Proposed date of completion	Remarks
1	Kanakapura	Yes	MBBR	0.30	Land aquisition	17/4/2023	LOA issued on 06/04/2022. Work order issued on 18/4/2022. Land is yet to be handed over by ULB.
2	Honnali	Yes	Upgradation of existing 3.3MLD WSP STP from WSP	0.00	Work Order issued	09-05-2023	LOA issued on 07/04/2022. Work order issued on 10/05/2022.
3	Shivamogga	Yes	Upgradation of existing STP	0	Work Order issued	31/7/2023	LOA issued on 19/7/2022. work order issued on 1/8/2022
4	Bhadravathi	Yes	Upgradation of existing STP	0	Work Order issued	31/7/2023	LOA issued on 19/7/2022. Work order issued on 1/8/2022
5	Bhadravathi	Yes	Upgradation of existing STP	0	Work Order issued	31/7/2023	LOA issued on 19/7/2022. Work order issued on 1/8/2022
6	Hassan	Yes	MBBR	2.00	Land aquisition	18.01.2024	
7	Bantwala	Yes	SBR	4.14	Land aquisition	-	Land required for the construction of Wetwell No.1, Wetwell No.2, STP-1 (Partly), Wetwell No.4(1) is handed over by Bantwala TMC to Board on 04-04-2022. Land required for the construction of Wetwell No.6 (Govt land) and Wetwell No.7 (Govt. land) are already handed over by Bantwala TMC to Board. PQ Tender invited for 5 nos of wetwells and the tender evaluation is under process.
8	Bantwala	Yes	SBR	0.22	DPR under preparation	-	Land for STP-2 (Private land) is handed over by TMC. STP -2 will be tackled under 3rd phase UGD scheme to Bantwala town.
9	Subramanya	Yes	SBR	0.00	DPR submitted	-	DPR amounting to Rs.523.00 lakhs for Upgradation of the existing STP of 2.60
10	Karwar CMC	Yes	SBR	3.00	Land aquisition	-	Tenders cancelled. To be re-tendered after land acquisition for 3 nos. of wetwell.
11	Khanapura	Yes	SBR	3.70	DPR submitted	-	DPR of Rs. 6657.00 lakhs submitted to Govt vide ltr No. 2026 Dtd : 08-11-2019
12	M.K.Hubli	Yes	SBR	4.40	DPR submitted	-	DPR Rs. 5466.00 lakhs submitted to Govt vide Ltr No. 1916 Dtd: 28-10-2019. Approval is awaited
13	Saundatti (TP)	Yes	MBBR	0.50	DPR submitted	-	DPR Rs. 10430.00 lakha submitted to Govt vide ltr No. 01 Dtd : 02-04-2019 and approval is awaited
14	Saundatti (TP)	Yes	SBR	8.50	DPR submitted	-	
15	Munavalli	Yes	SBR	5.30	DPR submitted	-	Estimate Rs. 6876.00 lakhs submitted to Govt vide ltr No. 1917 Dtd: 28-10-2019 and Approval is awaited
16	Kudachi (TMC)	Yes	SBR	3.66	DPR submitted	-	Estimate Rs. 7341.00 lakhs submitted to Govt vide ltr No. 1842 Dtd: 19-10-2019 and approval is awaited
17	Examba (TP)	Yes	MBBR	1.45	Work Order issued	-	LOA is issued on 07-10-2022 & Agreement yet to conclude.
18	Examba (TP)	Yes	SBR	2.61	DPR submitted	-	DPR Rs. 7372.00 lakhs submitted to Govt vide ltr No. 1136 Dtd: 17-10-2020 and approval is awaited
19	Ainapur (TP)	Yes	SBR	4.37	DPR submitted	-	DPR Rs. 6988.00 lakhs submitted to Govt vide ltr No. 1036 Dtd: 01-08-2019 and approval is awaited

20	Chinchili (TP)	Yes	MBBR	1.67	agreement is to be concluded	-	LOA is issued on 07-10-2022 & Agreement yet to conclude.
21	Chinchili (TP)	Yes	SBR	3.88	DPR submitted	-	DPR Rs. 6060.00 lakhs submitted to Govt vide No. 1137 Dtd: 17-10-2020 and approval is awaited
22	Karwar	Yes	SBR	7.00	DPR under preparation	-	
23	Karwar	Yes	Package plant	1.00	DPR under preparation	-	
24	Karwar	Yes	Package plant	1.00	DPR under preparation	-	

58.70

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)	Proposed date of completion
1	Vijayapura	No	Planted Dry Bed	9	DPR are approved & tender is invited	31.08.2023
2	Pavagada	No	Planted Dry Bed	6		
3	Bangarpete	No	Planted Dry Bed	12		
4	H D Kote	No	Planted Dry Bed	6		
5	Holalkere	No	Planted Dry Bed	6		
6	Hosanagara	No	Planted Dry Bed	3		
7	Thirthahalli	No	Planted Dry Bed	3		
8	Narsimharajpura	No	Planted Dry Bed	3		
9	Alur	No	Planted Dry Bed	3		
10	Hanur	No	Planted Dry Bed	3		
11	Somavarpete	No	Planted Dry Bed	3		
12	Virajpete	No	Planted Dry Bed	6		
13	Mundagod	No	Planted Dry Bed	6		
14	Hanagal	No	Planted Dry Bed	9		
15	Alnavar	No	Planted Dry Bed	6		
16	Terdal	No	Planted Dry Bed	6		
17	Kerur	No	Planted Dry Bed	6		
18	Raybag	No	Planted Dry Bed	6		
19	Konnur	No	Planted Dry Bed	3		
20	Mudalgi	No	Planted Dry Bed	6		
21	Kallolli	No	Planted Dry Bed	3		
22	P G Mallapura	No	Planted Dry Bed	3		
23	Arabhavi	No	Planted Dry Bed	3		

24	Naganur	No	Planted Dry Bed	3		
25	Athani	No	Planted Dry Bed	12		
26	Nipani	No	Planted Dry Bed	12		
27	Puttur	No	Planted Dry Bed	15	DPR is prepared & directed for revision of estimates as per new 2022-23 SR	31.10.2023
28	Tarikere	No	Planted Dry Bed	12		
29	Boragaon	No	Planted Dry Bed	3		
30	Mulagunda	No	Planted Dry Bed	6		
31	Savanur	No	Planted Dry Bed	12		
32	Sirsi	No	Planted Dry Bed	15		
33	Aurad	No	Planted Dry Bed	6		
34	Shahabad	No	Planted Dry Bed	12		
35	Chincholi	No	Planted Dry Bed	9		
36	Afzalpur	No	Planted Dry Bed	12		
37	Shahpura	No	Planted Dry Bed	18		
38	Siraguppa	No	Planted Dry Bed	15		
39	Tekkalkote	No	Planted Dry Bed	9		
40	Kustagi	No	Planted Dry Bed	9		
41	Manvi	No	Screw press	15		
42	Basavakalyana	No	Screw press	18		
43	Karkala	No	Planted Dry Bed	6	Work Order has been issued on 04.05.2022. Work is under progress.	31.06.2023
44	Vitla	No	Planted Dry Bed	9		
45	Sakaleshpura	No	Planted Dry Bed	6		

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	Basheethalli	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		

Annexure-9

Water Quality of Polluted River Stretches during the year 2022-23

Sl. No.	River Name	River Stretch	Monitoring Station/Location	Nov-22			
				DO	BOD	FC	TC
1	ARKAVATHI	THIPPAGONDANA HALLI RESERVOIR TO KANAKAPURA TOWN	At D/S of Kanakapura	5	4	490	16000
			T.G. Halli Reservoir	5	6	480	16000
2	LAKSHMANTIRTHA	HUNSUR TO KATTEMALAVADI	D/S of Hunsur Town	5.4	4.5	380	2400
			D/S of Kattemalavadi	5.4	4.5	330	2400
			D/s of Lakshmantheertha at Hunsur water supply intake point	5.8	4	330	2200
3	MALAPRABHA	KHANAPUR TO RAMDURG	At D/S of Aihole Town				
			W/A point to Hubli Dharwad at Saundatti.	6.8	1.62	920	1600
			At D/S of Khanapur Village	7.1	0.66	920	1600
			At Badami Bridge				
4	TUNGABHADRA	HARIHARA TO HARLAHALLI BRIDGE	At Honnali Bridge	7.4	1.8	40	280
			At Ullanur Bridge				
			At Haralahalli Bridge	7.4	2.2	31	280
			Confluence point of Tunga and Bhadra at Kudli	7	1.8	40	280
			D/S of HPF	6.3	4.4	270	2400
			At Jack Well Point	6.5	3	63	540
			At Harihar Water Supply Intake point	6.9	2.1	1700	13000
5	BHADRA	HOLEHUNNUR TO BHADRAVATHI	Near Holehonnur	6.9	1.7	170	1400
			D/S of Bhadravathi City	6.7	2	230	2400
6	CAUVERY	RANGANATHITTU TO SATHIGALA BRIDGE	At D/S of Road Bridge at Shrirangapatna	6.5	2.5	150	1200
			At Ranganathittu	6.3	2.5	170	1200
			At Satyagala Bridge	6.4	2	130	1100
7	KABINI	NANJANGUD TO HEJJIGE	At Bathing Ghat, Nanjanagud	6.2	2.5	110	1100
			Water supply intake point to T. Narasipura	6.3	2	92	790
8	KAGINA	SHAHABAD TO HONGUNTA	Kagina D/S of Sewage disposal point	8.18	3	280	1600
			At Shahabad Bridge	7.73	4	490	2100
9	KALI	HASAN MAAD (WEST COAST PAPER MILL) TO BOMMANAHALLI RESERVOIR	At U/S of West Coast Paper Mills	7.8	2.3	94	180
			At D/S of West Coast Paper Mills	7.6	2.6	110	195
10	KRISHNA	YADURWADI TO TINTINI BRIDGE	At D/S of Devasagar Bridge	7	2	250	1600
			At D/S of Narayana pura Dam				
			At D/S of Ugarkhurd Barrage	8.8	1.32	920	1600
			Ankali Bridge Along Chikkodi Kagwad Road	7.1	1.38	920	1600

			D/S of Alamatti Dam				
			AT Tintini Bridge	7.4	3	390	2100
11	SIMSHA	YEDIYUR TO HALAGUR	At D/S of Bridge Halagur	6	3	240	1300
			Near Yedyur on NH-47	6	5	240	16000
			D/s Shimsha near Madduar town	6	3	170	1400
12	KRISHNA (Asangi Barrage)	ALONG ASANGI BARRAGE	Asangi Village				
13	BHIMA	GHANAGAPUR TO YADGIR	At D/S of Bridge near Yadgir				
			At D/S of Road Bridge Ghanagapur Village				
			At Ferozabad				
			Bhima River Confluence of Jewagri Town Sewage Disposal	8.04	3.5	350	1600
14	KUMARADHARA	ALONG UPPINANGADI	U/S Uppinagady Town Before Confluence with river Nethravathi	7.7	2	70	540
15	NETRAVATHI	UPPINANGADI TO MANGALURU	Thumbe water supply station to Mangaluru city	7.8	2	93	700
			U/s of Uppinangady town	7.2	3	68	490
16	TUNGA	SHIVAMOGGA TO KUDLI	At D/S of Shimoga	6.7	2.8	110	1300
17	YAGACHI	ALONG YAGACHI , HASSAN	Yagachi River Near Pumping Station, Hassan City	6.8	2.1	170	1200

Note: 1) * - No Water in the River/ Reservoir/ Samples are not Collected.

2) — : Data not submitted

3) DO- Dissolved Oxygen in mg/L, BOD-Biochemical Oxygen Demand in mg/L, FC- TC- Total Coliforms in MPN/100ml.

4)

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.

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	0.81	0.52	0.10	0.09	3.85	2.59	5.04	2.85	7.69	16.46
July	2.76	25.04	11.65	20.81	22.02	35.59	8.75	72.47	27.98	106.93
August	4.83	37.13	8.64	11.96	9.90	34.16	7.63	102.83	22.64	223.57
September	2.33	13.93	5.22	2.50	7.83	13.75	21.63	38.03	33.14	105.53
October	1.29	5.86	2.06	1.01	7.37	3.94	10.25	36.98	48.28	120.77
November	0.65	0.53	1.25	0.90	4.47	4.06	19.55	11.19	71.57	40.64
December	0.54		0.33		1.87		7.79		26.18	
January	0.53		0.07		1.13		3.69		3.55	
February	0.72		0.06		0.99		2.99		3.11	
March	2.05		0.94		2.86		2.74		5.22	
April	0.55		0.11		2.38		2.46		5.86	
May	0.57		0.28		2.68		3.04		22.96	
Total	17.63	83.01	30.71	37.27	67.35	94.09	95.56	264.35	278.18	613.90

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	16.30	3.21	0.19	0.38	0.30	0.80	11.61	10.27
July	50.06	78.70	0.25	24.22	32.96	126.48	46.39	95.73
August	32.75	50.96	7.36	31.24	38.86	119.38	73.36	156.38
September	20.92		3.41	14.98	17.53	86.25	61.73	
October	12.76		7.67	5.81	33.31	57.21	70.21	
November	8.35		4.50	0.59	32.20	0.63	72.25	
December	3.47		3.10		3.66		33.12	
January	1.16		0.67		2.18		12.45	
February	-		1.13		3.25		17.98	
March	-		0.72		5.45		14.12	
April	0.13		0.89		1.41		11.56	
May	1.72		2.82		0.56		9.22	
Total	147.62	132.87	32.71	77.22	171.67	390.75	434.00	262.38

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	0.10	0.15	0.60	0.50	19.91	1.65	22.74	0.43
July	12.78	0.19	6.99	0.50	288.94	113.87	285.85	117.00
August	5.68	7.13	0.55	2.95	157.42	188.07	143.39	191.16
September	3.10	9.50	2.02	7.50	70.81	134.03	66.12	161.39
October	0.66	0.58	2.67	4.29	33.50	99.10	18.92	124.15
November	0.26	0.29	0.70	0.63	12.44	5.65	0.27	0.99
December	0.23		0.60		7.08		0.28	
January	0.18		0.64		17.58		0.35	
February	0.18		0.63		17.82		0.38	
March	0.24		0.71		18.82		0.48	
April	0.22		1.00		2.60		0.46	
May	0.15		0.50		5.90		0.45	
Total	23.78	17.84	17.61	16.37	652.82	542.37	539.69	595.12

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	III
Status as on	30th November 2022

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)					
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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	October-2022	5.8	5.0	3100	160000
		November-2022	Results awaited			
2	Downstream of Kanakapura	October-2022	5.1	4.0	3400	24000
		November-2022	Results awaited			

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

**Format for submission of monthly Progress report by States/ UTs for the Month
November-2022**
(Hon'ble NGT in the matter of OA No. 673/2018, Dated: 06/12/2019)
(Tamadaddi village to Chikkapdasalagi Village – 33 Kms stretch of Krishna River,
Bagalkot District)

Name of the River : Asangi- Krishna River
Polluted river stretch : Tamadaddi village to Chikkapdasalagi Village – 33 Kms
stretch of Krishna River, Bagalkot District
Priority : V
Status as on : November-2022

Overall status of the State:

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

a. Urban Population:

Sl. No.	Name	Population
1	CMC, Rabakavi-Banahatti, Jamakhandi-Tq, Bagalkot-Dist.	77,004
2	TMC, Terdal, Jamakhandi-Tq, Bagalkot-Dist.	26,088
Total		1,03,092

b. Rural Population:

Sl. No.	Name	Population
1	Gram Panchayat, Tamadaddi	3,101
2	Gram Panchayat, Halingali	7,363
3	Gram Panchayat, Madanamatti	1,207
4	Gram Panchayat, Asangi	5,787
Total		17,458

II. Estimated Sewage Generation (MLD): 9.95MLD

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD): 01 & 9.2MLD
- Capacity Utilization of existing STPs: 9.2MLD

- MLD of sewage being treated through Alternate technology: 0
- Gap in Treatment Capacity in MLD: 0.75MLD
- No. of Operational STPs: 1
- No. of Complying STPs: 1
- No. of Non-complying STPs: 0

Details of each existing STP in the State

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
01.	CMC, Rabakavi-Banahatti, Tq-Jamakhandi, Dist-Bagalkot	9.2MLD	9.2MLD	Operating	Operating

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
01.	TMC-Terdal, Jamakhandi-Tq, Bagalkot-Dist.	0.75MLD	DPR Stage	DPR Stage

IV. Details of Industrial Pollution:

- No. of industries in the Polluted River stretch: 07
- No. of water polluting industries in the Polluted River stretch: 07
- Quantity of effluent generated from the industries in MLD: 2.25
- Quantity of Hazardous Sludge generated from the Industries in TPD: 00

- **Number of industrial units having ETPs:** 05
- **Number of industrial units connected to CETP:** 00
- **Number and total capacity of ETPs (details of existing/ under construction / proposed):** 05ETPs of total capacity 2.75MLD
- **Compliance status of the ETPs:** Complying
- **Number and total capacity of CETPs (details of existing/ under construction / proposed):** 00
- **Status of compliance and operation of the CETPs:** Not applicable

Town/ village	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
Terdal	01	478KLD	500KLD (01 No)- Operating	NA
Hipparagi-Mygur	02	902KLD	1000KLD (01 No)- Operating	NA
Hirepadasalagi	02	630KLD	1000KLD (01 No)- Operating	NA
Asangi	01	242.28KLD	250KLD (01 No)- Operating	NA
Banahatti	01	2.5KLD	5.0KLD (01 No)- Operating	NA

V. Solid Waste Management:

- **Total number of Urban Local Bodies and their Population:**

Sl. No.	Name	Population
1	CMC, Rabakavi-Banahatti, Jamakhandi-Tq, Bagalkot-Dist.	77,004
2	TMC, Terdal, Jamakhandi-Tq, Bagalkot-Dist.	26,088
Total		1,03,092

- **Current Municipal Solid Waste Generation:**

The details are enclosed as Annexure-1.

- **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**

The details are enclosed as Annexure-1.

- **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**

a. In CMC, Rabakavi-Banahatti total 31 wards are there and all the wards have door to door collection service.

b. In TMC, Terdal total 23 wards are there and all the wards have door to door collection service.

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

The details are enclosed as Annexure-1.

- **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

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
CMC, Rabakavi-Banahatti, Jamakhandi-Tq, Bagalkot-Dist	26	26	Vermi Composting	26TPD	---
TMC, Terdal, Jamakhandi-Tq, Bagalkot-Dist	13	0	No Vermi Composting has been practiced. Only landfill site is provided.	0	---

VI. Bio-medical Waste Management:

- Total Bio-medical generation: 0.610TPD
- No. of Hospitals and Health Care Facilities: 118
- Status of Treatment Facility/ CBMWTF: Complying

VII. Hazardous Waste Management:

- Total Hazardous Waste generation: 3.45TPD
- No. of Industries generating Hazardous waste: 05
- 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: 3.46TPD
- 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 insitu treatment:

Presently there is no any proposal for In-situ, Remediation from the concerned authority. They were informed to appoint a expert to suggest better technology and finalization of technology.

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;

Krishna River

Name of the River: Krishna River

Name of the Station: Asangi Barrage

Station Code: 2763

Sl No.	Month/Parameters	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	June-22	July-22	Aug-22	Sep-22	Oct-22
1	Dissolved Oxygen	6.8	8.5	6.7	6	6.3	7.4	8.5	5.0	7.0	5.7	7.0
2	BOD	1.14	1.62	2.94	2.94	2.4	1.98	2.34	1.02	1.14	2.1	1.7
3	Total Coliforms	>1600	1600	>1600	>1600	1600	1600	1600	1600	1600	1600	1600
4	Fecal Coliforms	920	920	920	920	920	920	920	430	920	920	920
5	Fecal Streptococci	540	540	540	540	540	540	540	350	540	350	350
6	Conductivity	588	700	752	640	698	762	758	330	390	461	510

XIV. Ground water regulation:

Letter addressed to the Senior Geologist, Ground Water Directorate, Bagalkot for compliance.

XV. Good irrigation practices being adopted by the State:

Letter addressed to the Joint Director, Agriculture Department, Bagalkot for compliance.

XVI. Rain Water Harvesting:

Letter addressed to the P.D, DUDC & PD, ZP, Bagalkot for compliance.

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

Letter addressed to the DCF, Bagalkot, Karnataka Forest Department for compliance.

XVIII. Maintaining minimum e-flow of river:

Letter addressed to the Executive Engineer, Krishna Bhagya Jala Nigam Ltd., Dam Zone, Almatti, Tq: Basavana Bagewadi, Dist: Vijayapura for compliance.

XIX. Plantation activities along the rivers:

Letter addressed to the DCF, Bagalkot, Karnataka Forest Department for compliance.

XX. Development of biodiversity park:

Letter addressed to the DCF, Bagalkot, Karnataka Forest Department for compliance.

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: ----

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: ----

**ENVIRONMENTAL OFFICER
RO, KSPCB, BAGALKOT**

Annexure-I

Status of Solid Waste Management & Details of Processing Facilities:

Name of the Local Body	Types of Waste/ Characteristic of waste	Generated Quantity (MT/Day)	Collection/Storage facility with capacity (MT/Day)	Disposal/Treatment facility with capacity along with location (MT/Day)	Total Gap with generation & existing treatment facilities if Any (MT/Day)	Proposed action plan /facility to cover gap	Time limit	Remarks	Present Status
CMC, Rabakavi-Banahatti, Jamakhandi-Tq, Bagalkot-Dist	Domestic Waste (Mixed type)	26	26	26	00	—	31-12-2020	The authorities have vermin-composting pit and vermin-composting has been practiced.	Rabakavi-Banahatti generate 26TPD of solid waste and all 26 TPD of solid waste is composted & sold as manure
TMC, Terdal, Jamakhandi-Tq, Bagalkot-Dist	Domestic Waste (Mixed type)	13	13	0	13	—	31-12-2020	No Vermi Composting has been practiced	TMC, Terdal generate 13TPD of solid waste and no treatment & dumped in landfill site
Total		39	39	26	13				

ENVIRONMENTAL OFFICER,
RO, KSPCB, BAGALKOT

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 : 30.11.2022

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: 1
- No. of Complying STPs : 1
- No. of Non-complying STPs: 2

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	0	Not Working	Not 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	0	Not Working	Not Complied
3	City Municipal Council, Bhadravathi,Sy.No.13, WardNo.22,Ujjipura, 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 6 years.
 2. VISL is working intermittently. BF and SMS unit are not working since 5 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), biomethanation, 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	Composting	45 TPD	Plant & Machineries installation work is under process . Work completed on July-2022

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:--

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;

Earlier Samples were collected from the drains and Bore well and Results also Submitted along with Action Plan. This Office has collected drains and Bore well samples during July 2022. This Office is collecting the River Water Samples every month at 4 locations.

XIV. Ground water regulation:

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

XV. Good irrigation practices being adopted by the State:

Adaption 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:--

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

KARNATAKA STATE POLLUTION CONTROL BOARD, CENTRAL ENVIRONMENTAL LABORATORY-2, DAVANGERE.
NWMP RIVER WATER ANALYSIS REPORT FOR THE MONTH OF NOVEMBER-2022

FIELD OBSERVATIONS

Sl No	Sample Nos	W-438	W-439	W-440	W-441	W-442	W-443	W-444
	Station code	2765	4105	1387	1169	1896	1106	1168
I	Date & Time of collection	17.11.2022	17.11.2022	17.11.2022	17.11.2022	17.11.2022	17.11.2022	17.11.2022
		12:00PM	12:20PM	12:40PM	1:00PM	1:20PM	10:45AM	11:00AM
II	Weather	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny
III	Approximate depth	>100cm	>100cm	>100cm	>100cm	>100cm	>100cm	>100cm
IV	Colour & Intensity	Clear	Clear	Clear	Clear	Clear	Clear	Clear
V	Odour	None	None	None	None	None	None	None
VI	Visible effluent discharge	None	None	None	None	None	None	None
VII	Human activities around the station	None	None	None	None	None	None	None
VIII	Station details	U/s of MPM, Bhadra River, Karnataka	D/s of MPM, Bhadra River, Karnataka	D/s of Bhadravathi, Bhadra River, Karnataka	Holebentur Bridge, Bhadra River, Karnataka	Kudli Confluence point, TB River, Karnataka	U/s of Shivamogga, Tunga river, Karnataka	D/s of Shivamogga, Tunga river, Karnataka

CORE PARAMETERS

Sl No	Parameter	Unit						
1	Temperature	* C	27	27	26	27	27	26
2	DO	mg/L	7.1	6.8	6.7	6.9	7.0	6.7
3	pH	pH unit	8.0	8.2	8.0	8.0	8.3	7.9
4	Conductivity	µS/cm	240	600	250	250	110	132
5	BOD	mg/L	1.6	3.9	2.0	1.7	1.8	2.8
6	Nitrate as N	mg/L	0.53	0.53	0.60	0.53	0.62	0.40
7	Total Coli form	MPN/100ml	260	540	2400	1400	280	1300
8	Faecal Coli form	MPN/100ml	26	63	250	170	40	21

GENERAL PARAMETERS

Sl No	PARAMETER	UNIT						
1	Turbidity	NTU	15	8	36	37	26	23
2	P-Alkalinity as CaCO ₃	mg/L	Nil	Nil	Nil	Nil	Nil	Nil
3	Total Alkalinity as CaCO ₃	mg/L	90	210	92	84	94	38
4	Chloride	mg/L	30	34	30	24	30	16
5	COD	mg/L	16	28	22	17	20	15
6	TKN	mg/L	2.80	2.94	3.36	3.64	2.10	2.38
7	Ammonia as N	mg/L	1.60	1.72	2.46	2.46	1.60	1.72
8	Hardness as CaCO ₃	mg/L	90	282	102	90	120	40
9	Calcium as CaCO ₃	mg/L	42	142	42	46	48	24
10	Calcium as Ca++	mg/L	16.80	56.80	16.80	18.40	19.20	9.60
11	Magnesium as CaCO ₃	mg/L	48	140	60	44	72	16
12	Magnesium as Mg++	mg/L	11.60	34.02	14.58	10.69	17.30	3.89
13	Sulphate	mg/L	10.40	58.00	10.00	14.80	16.00	4.00
14	Sodium	mg/L	24	25	18	20	14	11
15	Total Dissolved Solids	mg/L	168	392	172	160	174	76
16	Total Fixed Solids	mg/L	160	370	162	152	166	70
17	Total Suspended Solids	mg/L	12	16	20	22	20	12
18	Phosphate as PO ₄	mg/L	BDL	0.12	0.20	BDL	BDL	BDL
19	Boron	mg/L	BDL	BDL	BDL	BDL	BDL	BDL
20	Potassium	mg/L	1	1	2	1	1	1
21	Fluoride	mg/L	0.21	0.34	0.18	0.21	0.38	0.11

Class/category
 Water Quality Index

Analysed by

Verified by
 Deputy 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 : BHIMA RIVER
Polluted river stretch : Ghanagapur to Yadgir - 160km
Priority : V
Status as on : 05.12.2022
Overall status of the State:

I. Total Population: Urban Population & Rural Population separately : **25,686**

II. Estimated Sewage Generation (MLD): **2.77MLD**

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: **2.77MLD**
- 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	Jewargi	3.25	-	-

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 : **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.

**KARNATAKA STATE POLLUTION CONTROL BOARD
REGIONAL OFFICE, KALABURAGI.**

MINARS PROGRAMME RIVER WATER ANALYSIS REPORT FOR THE MONTH OF OCTOBER-2022

FIELD OBSERVATIONS :

Sl.N o.	Sample Nos.	
	Station Code	1183
I.	Date & Time of collection	17.10.2022 10:50.AM
II	Weather	Cloudy
III	Approximate depth	Flood
IV	Colour & Intensity	Slightly turbid
V	Odour	None
VI	Visible effluent discharge	None
VII	Human activities around the station.	Cloth washing
VIII	Station details.	Bhima River at D/s of Bridge Ganagapur Kalaburagi

CORE PARAMETERS:

Sl.N o.			
1	Temperature	° C	27
2	pH	pH unit	7.97
3	Conductivity	µS/cm	762
4	DO	mg/L	8.12
5	BOD	mg/L	3
6	Nitrate as N	mg/L	2.20
7	Ammonia as N	mg/L	0.15
8	Total Coli form	MPN/100ml	9200
9	Faecal Coli form	MPN/100ml	460

GENERAL PARAMETERS:

SL. NO			
1	COD	mg/L	30
2	Turbidity	NTU	22
3	Hardness as CaCO ₃	mg/L	260
4	Calcium as CaCO ₃	mg/L	140
5	Magnesium as CaCO ₃	mg/L	120
6	Chloride	mg/L	88
7	Sodium	mg/L	81
8	Potassium	mg/L	4
9	Sulphate	mg/L	42
10	P-Alkalinity as CaCO ₃	mg/L	Nil
11	Total Alkalinity as CaCO ₃	mg/L	245
12	TKN	mg/L	-
13	Total Dissolved Solids	mg/L	495
14	Total Fixed Solids	mg/L	-
15	Total Suspended Solids	mg/L	162
16	Phosphate as PO ₄	mg/L	0.1
17	Fluoride	mg/L	0.44
18	Bicarbonate(HCO ₃)	mg/L	245
19	Boron	mg/L	-
Classification		Class "D" as per primary water quality criteria CPCB	
Water Quality Index		US	
Note-Water quality Index US :Unsatisfactory , S:Satisfactory			


Assistant Scientific Officer
Karnataka State Pollution Control Board
KALABURAGI.

**KARNATAKA STATE POLLUTION CONTROL BOARD
REGIONAL OFFICE, KALABURAGI.**

MINARS PROGRAMME RIVER WATER ANALYSIS REPORT FOR THE MONTH OF OCTOBER-2022

FIELD OBSERVATIONS :

Sl.N o.	Sample Nos.	
	Station Code	1184
I.	Date & Time of collection	17.10.2022 11:50.AM
II	Weather	Cloudy
III	Approximate depth	Flood
IV	Colour & Intensity	Slightly turbid
V	Odour	None
VI	Visible effluent discharge	None
VII	Human activities around the station.	None
VIII	Station details.	Bhima River at D/s of Ferozabad Kalaburagi

CORE PARAMETERS:

Sl.N o.			
1	Temperature	° C	27
2	pH	pH unit	7.93
3	Conductivity	µS/cm	779
4	DO	mg/L	8.1
5	BOD	mg/L	3
6	Nitrate as N	mg/L	2.10
7	Ammonia as N	mg/L	0.16
8	Total Coli form	MPN/100ml	5400
9	Faecal Coli form	MPN/100ml	320

GENERAL PARAMETERS:

SL. NO			
1	COD	mg/L	35
2	Turbidity	NTU	29
3	Hardness as CaCO ₃	mg/L	256
4	Calcium as CaCO ₃	mg/L	132
5	Magnesium as CaCO ₃	mg/L	124
6	Chloride	mg/L	92
7	Sodium	mg/L	86
8	Potassium	mg/L	4
9	Sulphate	mg/L	45
10	P-Alkalinity as CaCO ₃	mg/L	Nil
11	Total Alkalinity as CaCO ₃	mg/L	250
12	TKN	mg/L	-
13	Total Dissolved Solids	mg/L	506
14	Total Fixed Solids	mg/L	-
15	Total Suspended Solids	mg/L	98
16	Phosphate as PO ₄	mg/L	0.25
17	Fluoride	mg/L	0.44
18	Boron	mg/L	BDL
19	Bicarbonate(HCO ₃)	mg/L	250
Classification			Class "D" as per primary water quality criteria CPCB
Water Quality Index			US

Note-Water quality Index US :Unsatisfactory , S:Satisfactory


Assistant Scientific Officer
Karnataka State Pollution Control Board
KALABURAGI.

**KARNATAKA STATE POLLUTION CONTROL BOARD
REGIONAL OFFICE, KALABURAGI.**

MINARS PROGRAMME RIVER WATER ANALYSIS REPORT FOR THE MONTH OF OCTOBER-2022

FIELD OBSERVATIONS :

Sl.N o.	Sample Nos.	
	Station Code	1888
I.	Date & Time of collection	17.10.2022 12:20.PM
II	Weather	Cloudy
III	Approximate depth	Flood
IV	Colour & Intensity	slightly turbid
V	Odour	None
VI	Visible effluent discharge	None
VII	Human activities around the station.	None
VIII	Station details.	Bhima at confluence of Jewargi town sewage Disposal point Kalaburagi

CORE PARAMETERS:

Sl.N o.			
1	Temperature	° C	27
2	pH	pH unit	8.1
3	Conductivity	µS/cm	792
4	DO	mg/L	8.35
5	BOD	mg/L	3
6	Nitrate as N	mg/L	2.40
7	Ammonia as N	mg/L	0.15
8	Total Coli form	MPN/100ml	9200
9	Faecal Coli form	MPN/100ml	330

GENERAL PARAMETERS:

PHYSICO-CHEMICAL PARAMETERS			
SL. NO			
1	COD	mg/L	30
2	Turbidity	NTU	35
3	Hardness as CaCO ₃	mg/L	256
4	Calcium as CaCO ₃	mg/L	128
5	Magnesium as CaCO ₃	mg/L	112
6	Chloride	mg/L	84
7	Sodium	mg/L	87
8	Potassium	mg/L	4
9	Sulphate	mg/L	36
10	P-Alkalinity as CaCO ₃	mg/L	Nil
11	Total Alkalinity as CaCO ₃	mg/L	248
12	TKN	mg/L	-
13	Total Dissolved Solids	mg/L	514
14	Total Fixed Solids	mg/L	-
15	Total Suspended Solids	mg/L	166
16	Phosphate as PO ₄	mg/L	0.15
17	Fluoride	mg/L	0.44
18	Bicarbonate(HCO ₃)	mg/L	248
19	Boron	mg/L	BDL
Classification			Class "D" as per primary water quality criteria CPCB
Water Quality Index			
Note-Water quality Index US :Unsatisfactory , S:Satisfactory			US

Handwritten Signature
**Assistant Scientific Officer
Karnataka State Pollution Control Board
KALABURAGI.**

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 Sattegal Bridge
Priority	IV
Status as on	November-22

Overall status of the State:

Particulars		TMC Srirangapatna	TMC Bannur	TMC Narasipura	GP Mullur	GP Harale (Dasanapura & Harle Village)	CMC Kollegala	GP Sattegal (Yedkuri Village)	Total
I.	Total Population: Urban Population & Rural Population separately	25069	24430	31498	5671	3264	57149	428	147509
II.	Estimated Sewage Generation (MLD):	2.7	2.63	3.40	0.24	0.14	6.19	0.018	15.318

III. Details of Sewage Treatment Plant:

Particulars	TMC Srirangapatna	TMC Bannur	TMC Narasipura	GP Mullur	GP Harale (Dasanapura & Harle Village)	CMC Kollegala	GP Sattegal (Yedkuri Village)	Total capacity in MLD
Existing no. of STPs and Treatment Capacity (in MLD):	3.6	3.31	5.5	Nil	Nil	9	Nil	21.41
Capacity Utilization of existing STPs:	2.7	2.63	3.40	Nil	Nil	4.5	Nil	13.23
MLD of sewage being treated through Alternate technology:	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Gap in Treatment Capacity in MLD:	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
No. of Operational STPs:	1	1	1	Nil	Nil	1	Nil	4
No. of Complying STPs:	1	1	1	Nil	Nil	1	Nil	4
No. of Non-complying STPs:	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

- Note:** GP Mullur, GP Harale (Dasanapura & Harle Village) & GP Sattegal (Yedkuri Village) does not have STP and the Sewage effluent from the individual houses are being disposed off in to Septic tank and soak pits.

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
TMC, T Narasipura	Sy. No. 65/1, Byrapura & Algudu Village, T.N.Pura Taluk, Mysuru	5.5 MLD	3.8 MLD	Operational	STP is under stabilization & not receiving full quantum of sewage
TMC, Bannur	Sy. No. 174/1, 174/2, Yedahalli Village, Bannur Hobli, Bannur, Mysuru	3.31 MLD	2.36 MLD	Operational	STP consisting of WSP not maintained & operated in scientific manner
CMC, Kollegala	Sy No.930, 934, 946 & 935, Mullur Road, Kollegal Taluk	9.0 MLD	4.5 MLD	4.5 MLD	As per the MRP submitted by CMC Kollegal for the month of December-2021: STP is under Operation the missing UGD links in the networks have been identified and are being laid by the water board. The entire UGD network and other sources of sewage generator have been connected to the STP

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 with SBR Technology	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 tender is under process.	Proposals submitted to Government for taking up I&D works to reconnect the sewage in to nearby wet wells and household UGD connections for 3000 houses.	31-03-2021

TMC, T Narasipura	Sy. No. 65/1, Byrapura & Algudu Village, T.N.Pura Taluk, Mysuru	Nil	Nil	4 drains carrying sullage effluent is to be connected to wet well before Micro STP. No Work is in Progress.	31-03-2021
TMC, Bannur	Sy. No. 174/1, 174/2, Yedahalli Village, Bannur Hobli, Bannur, Mysuru	0.49 MLD	DPR prepared by KUWS&DB, Mysuru for Rs. 58 Crores for laying UGD network for new extension and to upgrade the existing STP to 3.8 MLD with SBT Technology.	50% of the town limit is connected to UGD & the remaining houses are yet to be connected. The sewage effluent from Makanahalli Extension is disposed off in to Septic tank and the same is transported to STP for further treatment & disposal.	31-03-2021
GP, Mulluru	-	-	-	Proposed to provide Common Septic tank and soak pit by diverting the sullage joining to river. No Work is in Progress.	31-03-2021
GP Harale (Dasanapura & Harle Village)	-	-	-	Proposed to provide Common Septic tank and soak pit by diverting the sullage joining to river. No Work is in Progress.	31-03-2021
CMC, Kollegala	Sy No.930, 934, 946 & 935, Mullur Road, Kollegal Taluk	9 MLD	80% is completed. since Out of the planned 7 wet wells serving each of the 7 collection networks zones, the construction of 03 wet wells one each for Uppara mole, shankanapura and Hosanagalli is yet to be taken up by the implementing agency i.e., KUWS&DB. The construction of Shankanapura collection zones wet well is delayed has the land issue of the wet well site as enter into illegal litigation in the Karnataka High Court. As per the MPR for the March 2021 received from CMC, Kollegal: The missing Links in the sewer network are being attended to and the proposed wet wells in separate areas away from the city like Hosaanagalli, Shankanapura ,budithittu and Bendarahalli have been dropped and	Laying UGD network is in progress & after completion of the same sewage discharge in to storm water drain is avoided. Work is in progress. Presently, 9 MLD STP is under operation & not receiving full quantum of sewage because of the missing links. UGD works is completed but the house to sewer network connection is partially completed. As per the MPR submitted by the CMC Kollegala the connection of entire sewer network and other sources of generation of sewage have been connected to the STP barring the isolated areas of Hosa Anagalli, Shankanapura, Upparamole and Bendarahalli and Booditittu. The earlier proposed wet wells have been dropped at Hosa Anagalli, Shankanapura, Upparamole and Bendarahalli and Booditittu and new technology based decentralized local	31-03-2021

			new technology based decentralized local treatment units have been proposed for the said areas which will take some time for implementation and commissioning. Stipulating the time limit as August- 2021. No Work is in Progress.	treatment units in the form of mini STP have been proposed for the said area. Hence CMC kollegala has sought time till Aug 2021 for the establishment and commissioning of the proposed mini STP's. No Work is in Progress.	
Yedkuri Village (GP Sathhegala)	-	-	-	Proposed to provide Common Septic tank and soak pit by diverting the sullage joining to river. No Work is in 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
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 tender is under process.	March - 2021
TMC, T Narasipura	Sy. No. 65/1, Byrapura & Algudu Village, T.N.Pura Taluk, Mysuru	Nil	Nil	Nil
TMC, Bannur	Sy. No. 174/1, 174/2, Yedahalli Village, Bannur Hobli, Bannur, Mysuru	Upgradation the existing STP to 3.8 MLD with SBT Technology.	DPR prepared by KUWS&DB, Mysuru for Rs. 58 Crores for laying UGD network for new extension and to upgrade the existing STP to 3.8 MLD with SBT Technology.	March - 2021
GP, Mulluru	GP, Mulluru	2 drains is identified & monitored. ZP Chamarajanagar has earmarked an amount of Rs. 3.0 Lakhs for providing Common Sewage collection tank & Common septic tank and soak pit. No physical progress in Field is made upto Jan 2022.	Proposed to provide Common Septic tank and soak pit by diverting the sullage joining to river. The Executive Officer, Taluk Panchayath, Kollegala has submitted a letter stating that under Swatch Bharath mission budget is sanctioned for providing septic tank and	March - 2021

			soak pit and phyto remediation technique for treatment of sullage for the villages located along the banks of Cauvery river. No Work is in Progress. As per the letter submitted by Executive Officer, Taluk Panchayath, Kollegal on 03/01/2021, stating that the Construction of the septic tank and soak pit as per IS 2470 by the end of March 2022 is being prepared and submitted action plan to the Zilla Panchayat Office for approval.	
GP Harale (Dasanapura & Harle Village)	GP Harale (Dasanapura & Harle Village)	5 drains is identified & monitored. ZP Chamarajanagar has earmarked an amount of Rs. 3.0 Lakhs for providing Common Sewage collection tank & Common septic tank and soak pit. No physical progress in Field is made upto Jan- 2021.	Proposed to provide Common Septic tank and soak pit by diverting the sullage joining to river. The Executive Officer, Taluk Panchayath, Kollegala has submitted a letter stating that under Swatch Bharath mission budget is sanctioned for providing septic tank and soak pit and phyto remediation technique for treatment of sullage for the villages located along the banks of Cauvery river. No Work is in Progress.	March - 2021
Yedkuri Village (GP Sathhegala)	Yedkuri Village (GP Sathhegala)	Nil	Nil	March - 2021
CMC, Kollegala	CMC, Kollegala	1 drains is identified & monitored. ZP Chamarajanagar has earmarked an amount of Rs. 3.0 Lakhs for providing Common Sewage collection tank & Common septic tank and soak pit. No physical progress in Field is made upto Jan 2021.	Proposed to provide Common Septic tank and soak pit by diverting the sullage joining to river. The Executive Officer, Taluk Panchayath, Kollegala has submitted a letter stating that under Swatch Bharath mission budget is sanctioned for providing septic tank and soak pit and phyto remediation technique for treatment of sullage for the villages located along the banks of Cauvery river. No Work is in Progress.	-

IV. Details of Industrial Pollution:

Particulars	TMC Srirangapatna	TMC Bannur	TMC Narasipura	GP Mullur	GP Harale (Dasanapura & Harle Village)	CMC Kollegala	GP Satthegala (Yedkuri Village)
No. of industries in the State:	6	4	34	Nil	Nil	14	Nil
No. of water polluting industries in the State:	1	3	22	Nil	Nil	2	Nil
Quantity of effluent generated from the industries in MLD:	0.0196	0.027	0.027	Nil	Nil	0.0178	Nil
Quantity of Hazardous Sludge generated from the Industries in TPD:	Nil	Nil	Nil	Nil	Nil	0	Nil
Number of industrial units having ETPs:	1	3	22	Nil	Nil	2 (1 no. Sri Sai Automobiles, Kollegal, 1 No. Partially provided grit Chamber as a part of ETP KSRTC Kollegal)	Nil
Number of industrial units connected to CETP:	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Number and total capacity of ETPs (details of existing/ under construction / proposed)	No. of ETP-1, Capacity-0.022 Under construction-0, Capacity-0 Proposed-0. Capacity-0	No. of ETP-3, Capacity-0.027 Under construction-0, Capacity-0 Proposed-0. Capacity-0	No. of ETP-22, Capacity-0.027 Under construction-0, Capacity-0 Proposed-0. Capacity-0	Nil	Nil	No. of ETP-2, Capacity-0.0178 Under construction-0, Capacity-0 Proposed-1. Capacity-0.018	Nil
Compliance status of the ETPs:	Complied	Nil	Nil	Nil	Nil	Complied	Nil
Number and total capacity of CETPs (details of existing/ under construction / proposed)	Nil	Nil	Nil	Nil	Nil	Nil	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
TMC, T Narasipura	Nil	Nil	Nil	Nil
TMC, Bannur	Nil	Nil	Nil	Nil
GP, Mulluru	Nil	Nil	Nil	Nil
GP Harale (Dasanapura & Harle Village)	Nil	Nil	Nil	Nil

CMC, Kollegala	Nil	Nil	Nil	Nil
Yedkuri Village (GP Satthegala)	Nil	Nil	Nil	Nil

V. Solid Waste Management:

Particulars	TMC Srirangapatna	TMC Bannur	TMC Narasipura	GP Mullur	GP Harale (Dasanapura & Harle Village)	CMC Kollegala	GP Satthegala (Yedkuri Village)
Total number of Urban Local Bodies and their Population	25069	24430	31498	5671	3264	57149	428
Current Municipal Solid Waste Generation	11.17 TPD	8.9	10	1.2	0.6	21.0	0.1
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	- Composting Existing – 1.5 Gap – 3.0 TPD - Sanitary landfill Existing–Nil Gap – 2.34 TPD	- Composting Existing – 1.5 Gap – 0.64 TPD - Sanitary landfill Existing–Nil Gap – 2.13 TPD	- Composting Existing – Nil Gap – 4.1 TPD - Sanitary landfill Existing–Nil Gap – 2.4 TPD	Nil	Nil	- Composting Existing – 2.0 Gap – 6.61TPD - Sanitary landfill Existing–Nil Gap – 5.0 TPD	Nil
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. The work is assigned to contractor and out of 22 works,12 works are completed and remaining 10 works are under progress.	DPR for Rs. 1.06 Crores is approved to provide compost plant & sanitary land fill site. The work is under progress. At present the solid waste is dumped in the site without any treatment.	DPR for Rs. 4.13 Crores is approved to provide compost plant & sanitary land fill site & the same is to be undertaken. One zero waste management site has been established. At present the solid waste is dumped in the site without any treatment.	Nil	Nil	DPR is approved for Rs. 2.5 Crores for procurement of machinery & other accessory to initiate composting & sanitary land fill site maintenance.	Nil
No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at	Door to door collection 23/23 Wards.	Door to door collection 23/23 Wards.	Door to door collection 23/23 Wards.	Nil	Nil	Door to door collection 31/31 Wards.	Nil

source	• Segregation practice-19 Wards	• Segregation practice-13 Wards	• Segregation practice-6 wards			• Segregation practice-28	
Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)	Nil	Nil	Nil	Nil	Nil	Nil	Nil
No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills	Nil	Nil	Nil	Nil	Nil	Nil	Nil
No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers	Nil	Nil	Nil	Nil	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	Nos. of drains 3 Nos. of drains having floating racks / screen – Nil	Nos. of drains 2 Nos. of drains having floating racks / screen – Nil	Nos. of drains 4 Nos. of drains having floating racks / screen – Nil	Nos. of drains 2 Nos. of drains having floating racks / screen – Nil	Nos. of drains 5 Nos. of drains having floating racks / screen – Nil	Nos. of drains1 Nos. of drains having floating racks / screen – Nil	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 Srirangapatna	11.17	1.5	Pit Composting	1.5	DPR for Rs. 4.40 Crores is approved for processing of entire MSW. Currently, the work is assigned to contractor and out of 22 works,12 works are completed and remaining 10 works are under progress.
TMC, T Narasipura	10	0	Pit Composting	0	SWM DPR prepared under swaccha Bharath Mission is approved and action is being taken up as per DPR . One zero waste management site has been established. Timeline -30-03-2021
TMC, Bannur	8.9	1.5	Pit Composting,	1.5	DPR has been prepared under SBM and it is in the implementation stage. The work is under progress. Timeline -30-03-2021
GP, Mulluru	1.2	0	Nil	0	No action plan
GP Harale (Dasanapura & Harle Village)	0.6	0	Nil	0	No action plan
CMC, Kollegala	21.0	2.0	Composting is carried	2.0	As per the MPR March 2021 submitted by the CMC

			out		Kollegala, Construction of compound wall, processing Shed, windrow platform, internal roads, Sanitary Land Fill(SLF), drain, watch man shed is completed. Electrification, drilling of Borewell, installation of machineries, are under tender process and sought Completion Timeline on April 2021. Presently segregated is being dump separately at land fill site. Wet waste is processed for compost. Bio-medical waste is being handled by private CBMWTF. Land has been indentify for set up of decentralized waste management
Yedkuri Village (GP Saththegala)	0.1	0	Nil	0	No action plan
Total	52.97	5.0		5.0	

VI. Bio-medical Waste Management:

Particulars	TMC Srirangapatna	TMC Bannur	TMC Narasipura	GP Mullur	GP Harale (Dasanapura & Harle Village)	CMC Kollegala	GP Saththegala (Yedkuri Village)
Total Bio-medical generation in Kgs/day	54.45 Kg/day	16 Kg/day	119.5 Kgs/day	Nil	Nil	103.44 kg/day	Nil
No. of Hospitals and Health Care Facilities:	Bedded: 3 Non Bedded: 19	Bedded: 1 Non Bedded: 4	Bedded: 15 Non Bedded:18	Nil	Nil	Bedded: 09 Non Bedded:31	Nil
Status of Treatment Facility/ CBMWTF:	CBMWTF	CBMWTF	CBMWTF	Nil	Nil	CBMWTF	Nil

VII. Hazardous Waste Management:

Particulars	TMC Srirangapatna	TMC Bannur	TMC Narasipura	GP Mullur	GP Harale (Dasanapura & Harle Village)	CMC Kollegala	GP Saththegala (Yedkuri Village)
Total Hazardous Waste generation:	Nil	Nil	Nil	Nil	Nil	0.805 TPA	Nil
No. of Industries generating Hazardous waste	Nil	Nil	Nil	Nil	Nil	01	Nil
Treatment Capacity of all TSDFs	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Avg. Quantity of Hazardous waste reaching the TSDFs and Treated	Nil	Nil	Nil	Nil	Nil	Nil	Nil

Details of on-going or proposed TSDF	Nil	Nil	Nil	Nil	Nil	Nil	Nil
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VIII. Plastic Waste Management:

Particulars	TMC Srirangapatna	TMC Bannur	TMC Narasipura	GP Mullur	GP Harale (Dasanapura & Harle Village)	CMC Kollegala	GP Satthegala (Yedkuri Village)
Total Plastic Waste generation:	0.69	0.2	0.36	Nil	Nil	0.5 TPD	Nil
Treatment/ Measures adopted for reduction or management of plastic waste:	Nil	Nil	Nil	Nil	Nil	Nil	Nil

Particulars	TMC Srirangapatna	TMC Bannur	TMC Narasipura	GP Mullur	GP Harale (Dasanapura & Harle Village)	CMC Kollegala	GP Satthegala (Yedkuri Village) Total
IX. Details of Alternate Treatment Technology being adopted by the State/UT	Nil	Nil	Nil	Nil	Nil	Nil	Nil
X. 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.	2 Drains identified and monitored periodically	4 Drains identified and monitored periodically	2 drains is identified & monitored. ZP Chamarajanagar has earmarked an amount of Rs. 3.0 Lakhs for providing Common Sewage collection tank & Common septic tank and soak pit. No physical progress	5 drains is identified & monitored. ZP Chamarajanagar has earmarked an amount of Rs. 1,15,000/- for providing Common Sewage collection tank & Common septic tank and soak pit. No physical progress	1 drain is identified & monitored. CMC Kollegala is providing UGD network for the entire town & after completion of the same the sewage & sullage entering the said drains is diverted to STP for further treatment & disposal. The work is under	1 drain is identified & monitored. ZP Chamarajanagar has earmarked an amount of Rs. 2.0 Lakhs for providing Common Sewage collection tank & Common septic tank and soak pit. No physical progress

						progress.	
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;	Status of water quality of polluted rivers in Annexure-1.					
XIV.	Ground water regulation:	CMC Kollegala : As per the details submitted by Sr. Geologist, District Ground Water Authority, Chamarajanagar for the month of March 2021, 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, notices 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 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. As per the details submitted by KaveriNeeravariNigama for the month of August 2020, Canal System are partially lined, so as to minimize seepage losses. In view of this a DPR proposed from the irrigation department of Kollegala taluk for the work related to Distributaries (D-56 to D-62) under Kabini Right Bank Canal (KRBC). Total cost of Rs.20 crores for modernization of					
XVI.	Rain Water Harvesting:	As per the details submitted by Sr. Geologist, District Ground Water Authority, Chamarajanagar for the month of October 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:	--					
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:	Social Forestry Department, Chamarajanagar district in its letter reads that the proposed plan for plantation of saplings on the bank of Cauvery river for about 14.5 Kms in the ensuing monsoon season. The project is yet to be approved and sanctioned. Hence no progress made.					

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:	-
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.	a) TMC Srirangatapna - 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 tender is under process. b) CMC Kollegala – Presently, 9 MLD STP is under operation & not receiving full quantum of sewage because of the missing links. UGD works is completed but the house to sewer network connection is partially completed. As per the MPR submitted by the CMC Kollegala the connection of entire sewer network and other sources of generation of sewage have been connected to the STP barring the isolated areas of Hosa Anagalli, Shankanapura, Upparamole and Bendarahalli and Booditittu. The earlier proposed wet wells have been dropped at Hosa Anagalli, Shankanapura, Upparamole and Bendarahalli and Booditittu and new technology based decentralized local treatment units in the form of mini STP have been proposed for the said area. Hence CMC kollegala has sought time till October 2021 for the establishment and commissioning of the proposed mini STP's. c) As per the MPR submitted by the CMC Kollegala, Construction of compound wall, processing Shed, windrow platform, internal roads, Sanitary Land Fill(SLF), drain, watch man shed is completed. Electrification, drilling of Borewell, installation of machineries, are under tender process and sought Completion Timeline on April 2021.No Work is in Progress. d) As per the letter from Executive Officer, Taluk Panchayath, Kollegala dated 3-1-2022, stated within March 2022 the Septic & Soak pit as per IS 2470 will be constructed. e) 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 yet to be approved by the Government. f) 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 Zor expanding the same along with sanitary land fill sites construction are under progress.

- | | |
|--|--|
| | <p>g) 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</p> <p>h) 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</p> <p>i) Work Order issued by Executive Engineer, KUWS &DB, Mysuru to the M/s. CVK Construction Pvt Ltd., Vide letter dated 08.11.2021 to proceed with the contract for providing/ rejuvenation of UGD scheme to Bannur Town as per NGT standards including O&M for 5 years at a tender price of Rs. 43,10,72,922 as approved by Chief Engineer, KUWS& DB, Mysuru .</p> <p>j) Flow data given by Chief Engineer CNL Irrigation South Mysore, Cauvery Neeravari Nigama Limited wrt daily Gauge report of Cauvery . As per the report the inflow of the Cauvery river is 7260 cusecs as on 04.12.2021</p> <p>k) Upgradation of existing Bannur STP to 3.8 MLD with SBT Technology work has been taken up.</p> <p>l) The DPR has been prepared and yet to be approved for connecting the missing links across the T Narasipura town to wet well</p> |
|--|--|

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	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	Nov-22	6.3	2.5	170	1200
2	D/s of left bank of river Cauvery in Mandya Water Supply Intake Point near SR Patna Taluk, Mandya District	Nov-22	6.4	2.0	110	1100
3	D/s of right bank of river Cauvery in Srirangapatna Water Supply Intake Point near Wellesly Bridge TMC SR Patna, Mandya District	Nov-22	6.6	2.0	130	1100
4	D/S of river Cauvery in Mysore-Bangalore Road Bridge of TMC Srirangapatna, Mandya District	Nov-22	6.5	2.5	150	1200
5	D/S of river Cauvery Bannur TMC Water supply intake point near Mysore- Bannur Road bridge, T.Narasipura Taluk, Mysore District	Nov-22	6.8	2.0	91	840
6	D/S of river Cauvery near Mullur Village, Kollegala Taluk, Chamarajanagar District	Nov-22	6.3	2.5	130	1100
7	D/S of Cauvery river near Dasanapura Village, Kollegala Taluk, Chamarajanagar District	Nov-22	6.3	2.0	110	1200
8	D/S of Cauvery river near Sathegala Bridge, Kollegala Taluk, Chamarajanagar District	Nov-22	6.4	2.0	130	1100

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)
Mysuru	T.Narasipura	10244	4978	5266	49	*Safe (≤ 70)
Ch-nagar	Kollegala	142.23 (MCM)	100.42 (MCM)	41.18 (MCM)	71	*Semi Critical
Note:- The ground water resource assessment is carried out on Talukawise (Administrative Units) The State Govt. has taken up various Recharge/Water Conservation Schemes like for augmentation of ground water resources.						

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	IV
Status as on	November 2022

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), biomethanation, 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	06 drains identified and monitored periodically

	as per NGT order on insitu treatment:	
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:

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 has 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 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	Nov-22	6.3	2.0	92	790
2	D/S of Kabini from KIADB W/s Intake Point Kallahalli	Nov-22	6.4	2.0	92	700
3	D/s of Kabini near Bathing Ghat, Nanjangud	Nov-22	6.2	2.5	110	1100

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 : IV
Status as on : 05.12.2022
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), biomethanation, 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.

**KARNATAKA STATE POLLUTION CONTROL BOARD
REGIONAL OFFICE, KALABURAGI.**

MINARS PROGRAMME RIVER WATER ANALYSIS REPORT FOR THE MONTH OF OCTOBER-2022

FIELD OBSERVATIONS :

Sl.N o.	Sample Nos.	
	Station Code	1895
I.	Date & Time of collection	17.10.2022 1:00: PM
II	Weather	Cloudy
III	Approximate depth	Flood
IV	Colour & Intensity	Slightly Turbid
V	Odour	Odourless
VI	Visible effluent discharge	None
VII	Human activities around the station.	None
VIII	Station details.	Kagina at D/s of shahabad town sewage confluence Point Kalaburagi

CORE PARAMETERS:

Sl.N o.			
1	Temperature	° C	28
2	pH	pH unit	7.89
3	Conductivity	µS/cm	453
4	DO	mg/L	7.87
5	BOD	mg/L	2.5
6	Nitrate as N	mg/L	1.50
7	Ammonia as N	mg/L	0.20
8	Total Coli form	MPN/100ml	16000
9	Faecal Coli form	MPN/100ml	330

GENERAL PARAMETERS:

GENERAL PARAMETERS			
SL. NO			
1	COD	mg/L	28
2	Turbidity	NTU	38
3	Hardness as CaCO ₃	mg/L	174
4	Calcium as CaCO ₃	mg/L	112
5	Magnesium as CaCO ₃	mg/L	62
6	Chloride	mg/L	24
7	Sodium	mg/L	45
8	Potassium	mg/L	3
9	Sulphate	mg/L	10
10	P-Alkalinity as CaCO ₃	mg/L	NIL
11	Total Alkalinity as CaCO ₃	mg/L	248
12	TKN	mg/L	-
13	Total Dissolved Solids	mg/L	294
14	Total Fixed Solids	mg/L	-
15	Total Suspended Solids	mg/L	92
16	Phosphate as PO ₄	mg/L	0.15
17	Fluoride	mg/L	0.59
18	Boron	mg/L	BDL
19	Bicarbonate (HCO ₃)	mg/L	248
Classification			Class "D" as per primary water quality criteria CPCB
Water Quality Index			
Note-Water quality Index US :Unsatisfactory, S:Satisfactory			US


Assistant Scientific Officer
Karnataka State Pollution Control Board
KALABURAGI.

**KARNATAKA STATE POLLUTION CONTROL BOARD
REGIONAL OFFICE, KALABURAGI.**

MINARS PROGRAMME RIVER WATER ANALYSIS REPORT FOR THE MONTH OF OCTOBER-2022

FIELD OBSERVATIONS :

Sl.N o.	Sample Nos.	
	Station Code	2777
I.	Date & Time of collection	17.10.2022 1:30.PM
II	Weather	Cloudy
III	Approximate depth	Flood
IV	Colour & Intensity	Slightly Turbid
V	Odour	Odourless
VI	Visible effluent discharge	None
VII	Human activities around the station.	None
VIII	Station details.	Kagina River at D/s of Shahabad Bridge Kalaburagi

CORE PARAMETERS:

Sl.N o.			
1	Temperature	° C	28
2	pH	pH unit	8.04
3	Conductivity	µS/cm	416
4	DO	mg/L	8
5	BOD	mg/L	3
6	Nitrate as N	mg/L	1.80
7	Ammonia as N	mg/L	0.25
8	Total Coli form	MPN/100ml	9200
9	Faecal Coli form	MPN/100ml	490

GENERAL PARAMETERS:

SL. NO			
1	COD	mg/L	27
2	Turbidity	NTU	38
3	Hardness as CaCO ₃	mg/L	180
4	Calcium as CaCO ₃	mg/L	116
5	Magnesium as CaCO ₃	mg/L	64
6	Chloride	mg/L	24
7	Sodium	mg/L	36
8	Potassium	mg/L	3
9	Sulphate	mg/L	9
10	P-Alkalinity as CaCO ₃	mg/L	Nil
11	Total Alkalinity as CaCO ₃	mg/L	229
12	TKN	mg/L	-
13	Total Dissolved Solids	mg/L	270
14	Total Fixed Solids	mg/L	-
15	Total Suspended Solids	mg/L	150
16	Phosphate as PO ₄	mg/L	0.09
17	Fluoride	mg/L	0.6
18	Boron	mg/L	BDL
19	Bicarbonate (HCO ₃)	mg/L	229
Classification		Class "D" as per primary water quality criteria CPCB	
Water Quality Index		US	
Note-Water quality Index US :Unsatisfactory , S:Satisfactory			

[Signature]
**Assistant Scientific Officer
Karnataka State Pollution Control Board
KALABURAGI.**

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 (River Kali)
Overall status of the State:

Name of the River : Kali River
Polluted river stretch : Hasan Maad to Bommanahalli (10 km)
Priority : IV
Status as on : November- 2022.

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

Urban Population-52069 (2011 census) and Rural population is about 1000.

II. Estimated Sewage Generation (MLD): 8.5MLD

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD):
Existing STP-NIL.
In Dandeli CMC limit maximum no. of individual houses are having ST & SP for toilet blocks. Now, authority has proposed 100% UGD with STP. UGD laying and STP work is under progress, the CMC-Dandeli has committed to complete the work by 2022. Plant and machineries were procured at site and maximum portion of civil work completed.
- Capacity Utilization of existing STPs: NA
- MLD of sewage being treated through Alternate technology:
In Dandeli CMC limit maximum no. of individual houses are having ST & SP for toilet blocks.
- Gap in Treatment Capacity in MLD: 8.5 MLD (Remarks- Individual houses are having ST and SP for toilets. However, washings and other waste water (sullage) of about 2-3 MLD are being discharging to drains and ultimately joins the Kali River.
- No. of Operational STPs: NIL
- 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
1	NA	NA	NA	NA	NA

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	CMC-Dandeli (Halamaddi)	8.5	UGD-90% And STP-95% (installation of machineries under progress)	Under progress	2022

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	NIL	NA	NA	NA

IV. Details of Industrial Pollution:

- 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:
Present maximum quantity of effluent generation is about 55MLD (consented 85.885MLD).
- Quantity of Hazardous Sludge generated from the Industries in TPD:
15.0 KL/Annuam
- 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): 01, 85.885 MLD capacity and is under operation.
- Compliance status of the ETPs: Complied.
- Number and total capacity of CETPs (details of existing/ under construction / proposed): Not Applicable.
- Status of compliance and operation of the CETPs: Not Applicable

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

V. Solid Waste Management:

VI. Total number of Urban Local Bodies and their Population: ULB- 01 (CMC-Dandeli), Population: 52069 (2011 census).

- Current Municipal Solid Waste Generation: 18 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:
CMC is practicing the system of door to door collection of segregated municipal solid waste. The wet waste is composted (vermin compost) in the identified the solid waste disposal site, the dry recyclable waste such as Plastic waste and E-waste are segregated and sent to recyclers. However, they are yet to provide sanitary landfill facility for the disposal of inerts. Construction of sanitary landfill site is under progress. The CMC is yet to identify a dedicated site for processing and disposal of Construction and demolition waste generated in the town.
- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%): Adequate
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction): NIL- The CMC is yet to identify a dedicated site for processing and disposal of Construction and demolition waste generated in the town. At present C & D wastes were being collected and stored in SWM site premises.
- Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source:
Total 31 wards practicing door to door collection service, and practicing segregation at source.

- 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:
5Nos and all are provided with screens.

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
CMC-Dandeli	18	17	Vermi -Composting, Wind Row flat form, Dry Waste segregation and collection shed.	17TPD	Landfill construction completed.

VII. Bio-medical Waste Management:

- Total Bio-medical generation: 5MTA
- No. of Hospitals and Health Care Facilities: 36
- Status of Treatment Facility/ CBMWTF: There is a Common Biomedical waste treatment Facility in the district by name M/s. Kenara IMA common bio-medical Waste Treatment Facility which is collecting the biomedical waste from this town also. Health care establishments have made MoU with the Common facility and they in turn pick up the waste and disposing in their facility.

VIII. Hazardous Waste Management:

- Total Hazardous Waste generation: Cat-5.1(Used oil)-11.6KL/Annum and Cat 33.1 (empty barrel)-61.21MT/Annum.
- No. of Industries generating Hazardous waste: 01
- Treatment Capacity of all TSDFs: Not Applicable
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated: Not Applicable
- Details of on-going or proposed TSDF: Not Applicable

IX. Plastic Waste Management:

- Total Plastic Waste generation: 73 TPA
- Treatment/ Measures adopted for reduction or management of plastic waste:
Banned plastic sale and usage was banned in the city and other plastic wastes with calorific value are being collected and sent to Cement industry for further treatment (CO-incineration at Kiln).

X. Details of Alternate Treatment Technology being adopted by the State/UT :

XI. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment: In Dandeli CMC limit maximum no. of individual houses are having ST & SP for toilet blocks. Now, authority has proposed 100% UGD with STP. UGD laying and STP work is under progress, the CMC-Dandeli has committed to

complete the work by December 2022. Polluting sources including drains contributing to river pollution are being connected 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: Till date 9 number of District Level Special Environment Surveillance Task Force Meetings were conducted under the Chairmanship of Deputy Commissioner. Last meeting held on **8/12/2022**.
- XIV. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river; **Attached as Annexure-1**
- XV. Ground water regulation:
The authority of District Ground Water Department informed that there are no critical blocks in the district.
- XVI. Good irrigation practices being adopted by the State:
Yes- Farmers are practicing micro irrigation technologies as a part of good irrigation practices. Adoption of Micro irrigation practices for all the crops and making Micro irrigation technology easily accessible at the rural level. Usage of ground water should be minimized and after installation and operation of STP by CMC-Dandeli, the treated sewage shall be utilized for irrigation activity in the surrounding area. Farmers being insisted to adopt micro-irrigation practice to reduce the water requirements.
- XVII. Rain Water Harvesting: Directions given to agricultural/irrigation department to organize awareness programmes in farmers to conserve water and good irrigation practices to be adopted and is under progress.
- XVIII. Demarcation of Floodplain and removal of illegal encroachments: Area comes under reserved forest and action will be taken Concern Department (forest department). Department of forest has submitted DPR for protection and management of flood plain zone and accordingly work is under progress.
- XIX. Maintaining minimum e-flow of river: Directions given to M/s. KPC Ltd., for maintaining minimum environmental flow of river. Monthly Average Data for the year 2022 is attached as **Annexure-2**
- XX. Plantation activities along the rivers: Department of Forest has submitted DPR for protection and management of flood plain zone. The river covered by thick forest on either side of the bank.
- XXI. Development of Biodiversity Park: Area comes under reserved forest and work is under progress.
- XXII. Reuse of Treated Water: Treated sewage will be reused once STP put into operation.
- XXIII. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards: Directions being followed.
- XXIV. Status of Preparation of Action Plan by the 13 Coastal States:
Information furnished in the format in OA No. 829/2019 through email on 29/9/2020 and Action plan forwarded to Board Office on 10/12/2020. District Level Special Environment Surveillance Meeting held on 08/12/2021 and in this meeting along with polluted river stretch, discussion held on Coastal pollution with concern departments.
- XXV. Regulation of Mining Activities in the State/UT:
Being monitored and regulated by Department of Mines and Geology.
- XXVI. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring: NIL

Sd/-
Environmental Officer (I/c)
KSPCB, RO, Karwar

Annexure-1												
River Kali-Analysis report of water sample collected from Kali River under MINARS programme(Jan-2022 to Nov-2022)												
Month	Upstream of m/s west coast paper mills, Dandeli						Downstream of m/s west coast paper mills, Dandeli					
	pH	DO(mg/l)	BOD (mg/l)	F.Coli(MPN /100ml)	T.Coli(MPN /100ml)	Fecal Stretococci (MPN/100ml)	pH	DO(mg/l)	BOD (mg/l)	F.Coli(MPN /100ml)	T.Coli(MPN /100ml)	Fecal Stretococci(MPN/100ml)
Jan'22	7.1	7.8	2.2	22	70	15	7.2	7.7	2.4	39	120	17
Feb'22	6.9	7.8	2.3	24	63	12	7.1	7.5	2.6	27	74	14
March'22	7.2	7.3	2.2	21	78	10	7.3	7.7	2.5	34	109	18
April'22	7.3	7.7	2.3	22	54	9	7.4	7.5	2.5	25	69	14
May'22	7.4	7.8	2.3	26	63	11	7.5	7.6	2.6	33	76	16
June'22	7.1	7.6	2.4	29	74	14	7.2	7.5	2.7	37	89	18
July'22	6.9	7.8	2.6	33	110	17	7.1	7.6	2.8	40	139	26
Aug'22	6.8	7.8	2.4	70	154	25	6.9	7.7	2.7	90	177	41
Sept'22	7.1	7.6	2.3	84	141	27	6.8	7.4	2.6	96	175	39
Oct'22	6.9	7.7	2.4	80	170	32	6.7	7.5	2.7	94	182	48
Nov'22	6.8	7.8	2.3	94	180	38	7.1	7.6	2.6	110	195	52

Sd/-
Environmental Officer (I/c)
KSPCB, RO, Karwar

Annexure-1

Drains leading to River Kali: Analysis report of Sullage/sewage water samples collected from many points before joining to River Kali

SL. No	Locations	Date Of sampling	pH	BOD(mg/l)	Fecal Coliform (MPN/100ml)	Total Coliform (MPN/100ml)
	Halmadi Nalla, Dandeli 15.245756 N, 74.635991 E	19-01-2022'	6.8	24	177	348
		03-02-2022'	6.7	26	240	426
		04-03-2022'	6.8	28	148	278
		07-04-2022'	6.9	36	212	345
		05-05-2022'	6.7	23	177	348
		08-06-2022'	6.7	28	170	430
		06-07-2022'	6.9	19	220	500
		03-08-2022'	6.8	25	130	350
		06-09-2022'	6.9	21	33	70
		07-10-2022'	6.8	24	170	280
		03-11-2022'	6.9	29	210	350
	Bailpar Bridge Cross, Old Dandeli 15.235565 N, 74.617418 E	19-01-2022'	6.7	17	175	426
		03-02-2022'	6.8	22	148	426
		04-03-2022'	6.7	19	172	345
		07-04-2022'	6.8	22	141	366
		05-05-2022'	6.9	27	148	426
		08-06-2022'	6.8	17	170	430
		06-07-2022'	6.8	23	350	900
		03-08-2022'	6.9	19	430	920
		06-09-2022'	6.8	16	21	48
		07-10-2022'	6.7	19	350	900
		03-11-2022'	6.9	16	430	920
	Opp Gate-3 of West Coast Paper Mills Ltd, Dandeli 15.246695 N, 74.630080 E	19-01-2022'	6.7	15	221	420
		03-02-2022'	6.8	18	177	345
		04-03-2022'	6.7	24	212	426
		07-04-2022'	6.9	20	175	278
		05-05-2022'	6.7	18	148	253
		08-06-2022'	6.8	23	150	280
		06-07-2022'	7.1	16	170	350
		03-08-2022'	6.7	13	220	426
		06-09-2022'	6.8	17	25	58
		07-10-2022'	6.7	15	280	500
		03-11-2022'	6.9	17	350	540
	Mirachigalli Bridge, Old Dandeli 15.243819 N, 74.622409 E	19-01-2022'	6.9	13	221	480
		03-02-2022'	6.8	15	212	486
		04-03-2022'	6.9	22	253	542
		07-04-2022'	6.8	19	221	426
		05-05-2022'	6.8	22	175	503
		08-06-2022'	6.7	16	220	540
		06-07-2022'	7.2	26	280	900
		03-08-2022'	6.8	17	350	900
		06-09-2022'	7.1	15	24	50
		07-10-2022'	6.8	20	300	900
		03-11-2022'	6.8	23	350	920
	Behind DSFA, Patel Nagar bridge, Dandeli 15.248093 N, 74.605713 E	19-01-2022'	6.8	15	253	503
		03-02-2022'	6.6	17	253	151
		04-03-2022'	6.7	25.8	221	542
		07-04-2022'	6.7	31	172	348
		05-05-2022'	6.7	24	148	345
		08-06-2022'	6.7	21	120	350
		06-07-2022'	6.9	17	175	420
		03-08-2022'	6.7	15	212	426
		06-09-2022'	6.7	22	22	49
		07-10-2022'	6.9	22	220	345
		03-11-2022'	7.1	25	240	350

Sd/-

Environmental Officer (I/c)

Annexure-1

Stream joining to River Kali-Analysis report of water sample collected from streams											
Sl. No	Stream Name	Month	Stream joining to River Kali								
			pH	BOD (mg/l)	Conductivity (µc/cm)	Boron (mg/l)	Fe (mg/l)	Fluoride (mg/l)	Phosphate (mg/l)	Sulphate (mg/l)	Nitrite (mg/l)
1	Karkal Hana	19-01-2022'	7.1	2.2	56	BDL	BDL	0.2	0.006	1.9	BDL
		03-02-2022'	6.9	2.1	67	BDL	BDL	0.2	0.007	2.3	BDL
		04-03-2022'	7.1	2.3	63	BDL	BDL	0.2	0.006	2.2	BDL
		07-04-2022'	7.1	2.1	58	BDL	BDL	0.2	0.005	2.4	BDL
		05-05-2022'	7.1	2.3	139	BDL	BDL	0.2	0.007	3.3	BDL
		08-06-2022'	7.5	2.4	103	BDL	BDL	0.2	0.006	2.8	BDL
		06-07-2022'	6.9	2.7	279	BDL	BDL	0.2	0.01	6.3	BDL
		03-08-2022'	7.4	2.5	223	BDL	BDL	0.3	0.012	6.3	BDL
		06-09-2022'	7.2	2.2	136	BDL	BDL	0.2	0.008	3.2	BDL
		07-10-2022'	7.1	2.4	296	BDL	BDL	0.3	0.011	10.8	BDL
		03-11-2022'	6.8	2.3	262	BDL	BDL	0.3	0.02	12.2	BDL
2	Upstream of Halmadi Nalla (before sewage entry)	19-01-2022'	7.1	2.3	59	BDL	BDL	0.2	0.006	2.2	BDL
		03-02-2022'	6.9	2.5	70	BDL	BDL	0.2	0.008	2.5	BDL
		04-03-2022'	7.3	2.3	64	BDL	BDL	0.2	0.009	2.4	BDL
		07-04-2022'	7.2	2.5	69	BDL	BDL	0.2	0.01	2.6	BDL
		05-05-2022'	7.3	2.6	129	BDL	BDL	0.2	0.009	3.1	BDL
		08-06-2022'	7.2	2.5	84	BDL	BDL	0.2	0.01	2.9	BDL
		06-07-2022'	7.5	2.5	133	BDL	BDL	0.2	0.012	3.8	BDL
		03-08-2022'	7.3	2.7	218	BDL	BDL	0.3	0.015	5.5	BDL
		06-09-2022'	7.1	2.5	293	BDL	BDL	0.3	0.013	7.5	BDL
		07-10-2022'	7.2	2.7	388	BDL	BDL	0.3	0.012	12.3	BDL
		03-11-2022'	7.1	2.6	361	BDL	BDL	0.2	0.016	14.3	BDL
3	Upstream of Barchi Nalla	19-01-2022'	7.1	2.1	68	BDL	BDL	0.2	0.007	2.8	BDL
		03-02-2022'	7.2	2.2	66	BDL	BDL	0.2	0.006	2.2	BDL
		04-03-2022'	7.2	2.1	60	BDL	BDL	0.2	0.005	2.1	BDL
		07-04-2022'	7.1	2.2	56	BDL	BDL	0.2	0.006	1.9	BDL
		05-05-2022'	7.2	2.4	133	BDL	BDL	0.2	0.008	3.2	BDL
		08-06-2022'	6.9	2.2	69	BDL	BDL	0.2	0.006	2.2	BDL
		06-07-2022'	7.4	2.6	191	BDL	BDL	0.3	0.01	5.4	BDL
		03-08-2022'	7.2	2.4	278	BDL	BDL	0.3	0.013	7.5	BDL
		06-09-2022'	7.1	2.7	386	BDL	BDL	0.2	0.011	10.2	BDL
		07-10-2022'	7.2	2.5	281	BDL	BDL	0.2	0.009	9.5	BDL
		03-11-2022'	6.8	2.3	251	BDL	BDL	0.2	0.007	11	BDL
4	Downstream of Barchi Nalla at Maulangi	19-01-2022'	6.9	2.3	61	BDL	BDL	0.2	0.007	2.5	BDL
		03-02-2022'	7.1	2.4	70	BDL	BDL	0.2	0.009	2.7	BDL
		04-03-2022'	7.2	2.5	75	BDL	BDL	0.2	0.008	3.1	BDL
		07-04-2022'	7.1	2.4	64	BDL	BDL	0.2	0.007	2.3	BDL
		05-05-2022'	7.3	2.5	154	BDL	BDL	0.2	0.009	3.8	BDL
		08-06-2022'	7.1	2.8	260	BDL	BDL	0.2	0.01	5.3	BDL
		06-07-2022'	7.5	2.8	336	BDL	BDL	0.2	0.012	7.5	BDL
		03-08-2022'	7.3	2.6	216	BDL	BDL	0.3	0.011	5.1	BDL
		06-09-2022'	7.2	2.5	280	BDL	BDL	0.2	0.013	7.3	BDL
		07-10-2022'	6.9	2.8	440	BDL	BDL	0.3	0.015	14.6	BDL
		03-11-2022'	6.9	2.5	364	BDL	BDL	0.3	0.012	15.6	BDL

Sd/-

Environmental Officer
KSPCB, RO, Karwar

Annexure-2

Status of E-Flow of River - Kali (daily average in Cusecs for the month of Nov- 2022)

Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22
4255.22	5948.81	7261.74	7209.99	5097.76	2400.22	1201.34	939.887	1375.541	1862.75	2338.91

Sd/-
Environmnetal Officer (I/c)
RO, KSPCB, Karwar

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 Tintinibridge (200 km)
Priority : IV
Status as on : November-2022

Overall status of the State:

I. Total Population: Urban Population & Rural Population separately: **Enclosed as Annexure-1**

II. Estimated Sewage Generation (MLD): **Enclosed as Annexure-1**

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD): **01 and 2x1.25 MLD**
- Capacity Utilization of existing STPs: **1.4 MLD**
- MLD of sewage being treated through Alternate technology: **Treated sewage is being reused in the process & Extended Aeration System**
- Gap in Treatment Capacity in MLD: **Nil**
- No. of Operational STPs: **01**
- No. of Complying STPs: **01 (Partially Complied)**
- 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	Hutti Notified Area, Lingasugur	2x1.25 MLD	1.4 MLD	01	-

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.	-

IV. Details of Industrial Pollution:

- No. of industries in the State:
- No. of water polluting industries in the State:**01 (M/s Hutti Gold Mines Co., Ltd, Hutti Village, Lingasugur-Tq, Dist- Raichur.**
- Quantity of effluent generated from the industries in MLD:**0.0455 MLD**
- Quantity of Hazardous Sludge generated from the Industries in TPD:**Nil**
- Number of industrial units having ETPs:**M/s Hutti Gold Mines Co. Has installed CSTP of capacity 2.5 MLD.**
- Number of industrial units connected to CETP:**There are no CETP's**
- Number and total capacity of ETPs (details of existing/ under construction / proposed) :**01 M/s Hutti Gold Mines Co. Has installed CSTP of capacity 2.5 MLD (Existing)**

- 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 :**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

V. Solid Waste Management:

- Total number of Urban Local Bodies and their Population :**Enclosed as Annexure- II**
- Current Municipal Solid Waste Generation: **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%) :**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 :**60 No. of Wards**

- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology) :----
- 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
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 comply with SWM Rules, 2016 from time to time. Target date to comply is 31.12.2020.
TMC Lingasugur, LingasugurTq, Raichur Dist.	14.4 T	0	MSW Site Existing	---	
HuttiTP, LingasugurTq, Raichur Dist.	6 T	0	MSW Site Existing	---	
Hutti Notified Area, LingasugurTq, Raichur Dist.	8 T	0	MSW siteexisting. Further, in Hutti Gold Mines, the wet waste is being digested and bio gas is being produced and utilized for canteen.	---	

VI. Bio-medical Waste Management:

- Total Bio-medical generation:133.5 Kg/day
- No. of Hospitals and Health Care Facilities:Devadurga Tq-59 HCE's ,Lingasugur Tq- 106HCE's, Hutti TP- 04 Nos &

Hutti Notified Area- 01.

- Status of Treatment Facility/ CBMWTF: **Above BMW waste is treated in RIMACT facility, Raichur.**

VII. Hazardous Waste Management:

- Total Hazardous Waste generation:
 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).
- No. of Industries generating Hazardous waste: **01**
- 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. **TMC Devadurga-2TPA (0.005 TPD)**
 2. **TMC Lingasugur- 6.1Ton/A (0.016,TPD)**
 3. **HuttiTP - 0.5TP/A (0.001,TPD)**
 4. **Hutti Notified Area -0.38 TP/A (0.001 TPD)**
- Treatment/ Measures adopted for reduction or management of plastic waste: ---

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:**Enclosed as Annexure-III**

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: **Enclosed as Annexure-IV**

- 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: -----
- 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.

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	III
Status as on	November 2022

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 STP to 4.09 MLD.	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 Lakshmanatheetha 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.
--	---

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	Nov-22	5.4	4.5	380	2400
2	D/S of Lakshmantheertha at water barrage near Kattemalalavadi Village	Nov-22	5.4	4.5	330	2400

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 : Malaprabha River
Polluted river stretch : Khanapur to Ramdurg
Priority : III
Status as on : As on 30.11.2022.

Overall status of the State:

- I. Total Population:** Urban Population & Rural Population separately: **Urban----**1,81,045,
Rural---- 80,795
- II. Estimated Sewage Generation (MLD):** **34.48.**

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD): **One STP with Capacity 8.28 MLD (Bailhongal)**
- Capacity Utilization of existing STPs: : **4.5MLD**
- MLD of sewage being treated through Alternate technology: **NA**
- Gap in Treatment Capacity in MLD:---
- No. of Operational STPs: **One**
- No. of Complying STPs: **One**
- 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	Bailhongal	8.28 MLD	4.5MLD	Operating	Complying

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	Ramdurg	3.30 & 1.00	75 %	House sewer yet to be connected	July-2022.

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	Khanapur	1.00	The TP, Khanapur has proposed 1 MLD (MBBR) STP. The estimates are prepared and approved by KUWS & DB. The appointing of contractors is under progress. Copy is enclosed.	Tender awarded to M/s. M N Ramesh, Tumkur.
2	Munavalli	5.30	DPR submitted to the Govt. For Approval vide Central Office Ltr No.1917, Dtd:28.10.2019. Tender is invited . Copy enclosed. STP site selection is completed.	Tender awarded to M/s. M N Ramesh, Tumkur.
3	M.K. Hubli	4.40	DPR submitted to the Govt. For Approval vide Central Office Ltr No.1916, Dtd:18.05.2020. Tender is invited . Copy enclosed. STP site selection is completed.	Tender awarded to M/s. M N Ramesh, Tumkur.
4	Savadatti	8.50	DPR submitted to the Govt. For Approval vide Central Office Ltr No.01, Dtd:02.04.2019. The local body authorities have constructed settling tanks in the nala joining the river. Tender is invited . Copy enclosed. STP site selection is completed.	Tender awarded to M/s. M N Ramesh, Tumkur.

IV. Details of Industrial Pollution:

- No. of industries in the State: :04
- No. of water polluting industries in the State: :NIL
- Quantity of effluent generated from the industries in MLD: :2684.6 (KLD)
- Quantity of Hazardous Sludge generated from the Industries in TPD: 0.00335 (KLDPD)
- Number of industrial units having ETPs: : 04
- Number of industrial units connected to CETP: : No CETP.

- Number and total capacity of ETPs (details of existing/ under construction / proposed):
Existing.

Sl. No.	Name of the industry	Sugar/ Distillery	ETP capacity in KLD
1	Laila sugars Ltd. Khanapur Tq. Belagavi Dist. Karnataka	Sugar	1000 KLD
2	Malaprabha SSK Niyamit, M.K. Hubli Bailhongal Tq. Belagavi Dist. Karnataka	Sugar & Distillery	400 KLD
3	Renuka Sugars Ltd., Munavalli, Soundatti Tq. Belagavi Dist. Karnataka	Sugar & Distillery	800 KLD
4	EID parry Sugars Ltd., Khanpet, Ramdurg Tq. Belagavi Dist. Karnataka	Sugar & Co-gen	550 KLD

- Compliance status of the ETPs: **Complied**
- Number and total capacity of CETPs (details of existing/ under construction /proposed):
:NA
- Status of compliance and operation of the CETPs: **NA**

V. Solid Waste Management:

- Total number of Urban Local Bodies and their Population: **06 & Population- 1,92,404.**
- Current Municipal Solid Waste Generation: **68 (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: 06 , Number, installed capacity & utilization of existing MSW processing facilities are **submitted in table-1.**
- 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: **Total no. of wards—138, 137 (D-D collection), 92 no. of wards practicing segregation at source.**
- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology): **Proposed at M K Hubli.**
- No. and area (in acres) of uncontrolled garbage dump sites and Sanitary Landfills: **Already submitted**
- No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers: **Already submitted**
- No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers:

Table-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
Bailhongal	18	05	Compound wall, borewell, connecting road, windrow platform, sanitary	17.25 TPD	

			land fill, weigh bridge,dry waste collection centre, Mansoon shed, Tree plantation, Plastic bailing m/c, segregation & shredding M/cs,		----
Savadatti	14	04	Windrow platform, Vermi composting	04	6 Months
Ramdurg	16	04	22 TPD	16 TPD	----
Munavalli	10	2.5	Composting	----	3 Months
Khanapur	06	2.4	Aerobic Composting	Fertilizer & it has been using in ULB gardens.	6 Months
M K Hubli	04	00	There is no any solid waste management & processing facilities provided by the newly formed ULB	0	6 Months

VI. Bio-Medical Waste Management:

- Total Bio-medical waste generation: **0.301 Tons/day.**
- No. of Hospitals and Health Care Facilities: **167 Nos (Hopsitals & HCEs).**
- Status of Treatment Facility/ CBMWTF: **Handed over to CBMWTFs.**

M/s.Belgaum Green Environment Management Ltd, Haroogoppa-Murgod Cross, Savadatti-Tq, Belagavi-Dist and, 2. M/s.Rio Green, Hubballi. The existing M/s. Association of Medical Establishments, Khasbag, Belagavi-Tq & Dist, closed due to non-compliances.

VII. Hazardous Waste Management:

- **Total Hazardous Waste generation:** 0.0038 KLPD.
- **No. of Industries generating Hazardous waste:** 04.
- **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:

- **Total Plastic Waste generation:** 0.98 Tons/Day (Local Bodies).

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.

- IX. 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.

- X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment:** Already submitted.

Malaprabha River Right Bank Tributaries Nala/Halla.

Sl No.	Name of the Stations	Latitude	Longitude
1	Water sample collected from Karambala nala sewage confluence point	15.622106	74.527977
2	B/w water sample collected at Karambal Water supply	15.622096	74.528001
3	Water sample collected at Karlaga Road Bridge	15.609526	74.550976

4	Hand pump water sample collected near Ramling Temple Karlaga Village	15.616205	74.555852
5	Bore well water sample collected at Kodachwad village water supply	15.656697	74.611666
6	Bore well Water sample collected at Hiremunoli near Govt. Hig School	15.668768	74.630596
7	Water sample collected from Nala near Chikkmunoli bridge	15.661303	74.645149
8	Bore well Water sample collected at Sri. Gopal B. Belawani agri field Chikkamunoli	15.661496	74.645254
9	Bore well Water sample collected at Kerkoppa village water supply	15.680876	74.694936
10	Water sample collected from Tattihala between Itagi and Itagi cross	15.675344	74.704193
11	Malaprabha River sample collected at Holemmedevi temple Hunasikatti (Malaprabha SSK D/s)	15.7055728	74.750451
12	Water sample collected at Holinagalapur Nala Bridge,	15.713633	74.805175
13	Bore well water sample collected from water supply, Gudadur	15.718601	74.819806
14	Malaprabha River back water sample collected at Nayanagar Bridge	15.451554	74.523209
15	Renuka Sugars Ltd., Peizometer -01	15.856996	75.101904
16	Renuka Sugars Ltd., Peizometer -02	15.853639	75.10552
17	Renuka Sugars Ltd., Peizometer -03	15.8584	75.101677
18	Renuka Sugars Ltd., Peizometer -04	15.85626	75.101753
19	Renuka Sugars Ltd., Peizometer -05	15.854665	75.102575
20	Renuka Sugars Ltd., Peizometer -06	15.853959	75.106311
21	Renuka Sugars Ltd., Peizometer -07	15.85858	75.106054
22	Renuka Sugars Ltd., B/w at Dyamanagoudar Agri Field	15.87125	75.099078
23	Renuka Sugars Ltd., B/w at Talawar Agri Field	15.861527	75.107304
24	Renuka Sugars Ltd., B/w at Kalamma Devi Temple	15.856994	75.116936
25	Renuka Sugars Ltd., B/w at Nadaf Agri Field	15.857368	75.110891

Malaprabha River Left Bank Tributaries Nala/Halla

Sl No.	Name of the Stations	Lattitude	Longitude
1	Water sample collected from Shapurwala nala Khanapur sewage confluence point	15.646964	74.516524
2	Laila Sugars Ltd., Khanapur	15.642913	74.547894
3	Water sample collected from Nalla between Doddahosur and Yadoga Road	15.66228	74.551258
4	Water sample collected from Devalatti Halla	15.67304	74.581541
5	Water sample collected from Hoovinahalla near MK Hubli	15.717014	74.681496
6	Town Panchayat, MK Hubli	15.717421	74.693716
7	Water sample collected from Malaprabha River water sample collected at Gangambika Temple KH4.	15.422131	74.422012
8	Malaprabha SSK Ni., MK Hubli	15.694774	74.715207
9	Water sample collected from Malaprabha River water sample collected at Holemmadevi temple Hunasikatti (Malaprabha SSK D/s)	15.705684	74.750506
10	Water sample collected at Neginaal Doddahalla	15.75386	74.786672
11	TMC Saundatti, Belagavi	15.463891	75.6974
12	Renuka Sugars Munolli, Saundatti	15.856853	75.100613
13	Water sample collected from Nalla near Renuks Sugars Ltd., Munoli	15.847772	75.107105
14	Town Panchayat, Munolli Saundatti	15.51661	75.71874
15	Water sample collected from Doddahalla at Munoli to Shindogi Road	15.847858	75.129464
16	Water sample collected from Tegyal Halla from Munoli to Katkol Road	15.865747	75.128968
17	EID (I) Ltd., Khanpeth, Ramdurg	15.939426	75.217133
18	Water sample collected from Halolli Halla between halolli to Sunnal Road	15.580448	75.151755
19	TMC Ramdurg	15.562887	75.174290
20	Bore well at MSW Site TMC Ramdurg	15.57336	75.17187

- X. **Details of Nodal Officer appointed by Chief Secretary in the State/UT:** NIL
- XI. **Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:** Conducted under the Chairmanship of Deputy Commissioner, Belagavi on 09.02.2021.
- XII. **Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;** Already submitted
- Ground water regulation:** Already submitted.

Period: 2020-21

NAME OF THE STATION	: Tributaries (Nalla) of Malaprabha River Polluted Stretch.
SAMPLE COLLECTED BY	: EO, Belagavi.
DATE OF COLLECTION	: 12-07-2021.
RECEIVED DATE	: 13-07-2021.
PARTICULARS OF SAMPLE	: 360-Hand pump water sample collected near Ramling Temple, Karalaga village, Khanapur.

Sl No.	PARAMETERS	UNITS	Std Limit IS 10500 2012 *DL **PL		360
1	pH	—	6.5-8.5	NR	7.59
2	BOD	mg/l	—	—	
3	Dissolved Solids	mg/l	500	2000	240
4	Conductivity	uMhos/cm	—	—	
5	Chlorid as Cl	mg/l	250	1000	80
6	Sulphate as SO ₄	mg/l	200	400	18
7	Hardness	mg/l	200	600	140
8	Calcium as Ca	mg/l	75	200	30.4
9	Magnesium as Mg	mg/l	30	100	16
10	Nitrate as NO ₃	mg/l	45	NR	4.5
11	Iron as Fe	mg/l	0.3	NR	0.012
12	Fluoride as F	mg/l	1	1.5	0.172
13	Total Chromium Cr	mg/l	0.05	NR	BDL
14	Alkalinity	mg/l	200	600	112
15	Turbidity	ntu	1	5	0.6

: Tributaries (Nalla) of Malaprabha River Polluted Stretch.

NAME OF THE STATION
SAMPLE COLLECTED BY : EO, Belagavi.
DATE OF COLLECTION : 07-10-2021.
RECEIVED DATE : 08-10-2021.
PARTICULARS OF SAMPLE : 918-B/w sample collected at Kodachawad village Water supply, Khanapur.
919-B/w sample collected at Hiremunoli near Govt High School. 922-B/w sample collected at Kerakoppa water supply Bailhongal.

Sl No	PARAMETER S	UNITS	Std Limit IS 10500 2012 *DL **PL		918	919	922
1	pH	—	6.5-8.5	NR	6.15	7.21	7.05
2	BOD	mg/l	—	—	0.54	0.6	1.06
3	Dissolved Solids	mg/l	500	2000	760	680	360
4	Conductivity	uMhos/cm	—	—	1198	1068	580
5	Chlorid as Cl	mg/l	250	1000	204	184	92
6	Sulphate as SO ₄	mg/l	200	400	152	46	16
7	Hardness	mg/l	200	600	400	480	260
8	Calcium as Ca	mg/l	75	200	83	90	61
9	Magnesium as Mg	mg/l	30	100	47	62	26
10	Nitrate as NO ₃	mg/l	45	NR	2.39	2.79	5.59
11	Iron as Fe	mg/l	0.3	NR	0.012	0.015	0.011
12	Fluoride as F	mg/l	1	1.5	0.321	0.416	0.513
13	Total Chromium Cr	mg/l	0.05	NR	BDL	BDL	BDL
14	Alkalinity	mg/l	200	600	332	348	272
15	Turbidity	ntu	1	5	0.4	0.2	0.4

XIII. Good irrigation practices being adopted by the State:

1. Directions issued by the DC, Belagavi to Dept of Agriculture, during the meeting held

on 09.02.2021.

2. **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.
 3. **Micro Irrigation:** Adoption of Micro irrigation practices for all the crops and making Micro irrigation technology easily accessible at the rural level.
 4. Making Ground Water extraction beyond a specific limit punishable under the Act (Not allowing Bore well digging activities in vulnerable or exploited areas).
 5. **Crop Intensification:** Providing incentives to the farmer for taking up Crop intensification in the command areas.
 6. **Modification in Surface Irrigation Methods:** Surface water can be utilised in a minimised way by adopting alternate row irrigation system.
 7. **Mulching Practices:** Any organic or inorganic materials can be used for mulching to reduce evapotranspiration, thereby reducing irrigation intervals and water amount.
- XIV. **Rain Water Harvesting:** Letter addressed to the Project Director, DUDC & Project Director, ZP, Belagavi for compliance. But all the four industries have implemented rain water harvesting system. Directions issued.
- XV. **Demarcation of Floodplain and removal of illegal encroachments:** Warned by Revenue department as per the flood memorandum through early warning arrangement. Directions issued by the DC, Belagavi to Revenue Dept.
- XVI. **Maintaining minimum e-flow of river:** Letter addressed to the Executive Engineer, Major Irrigation Department, Belagavi for compliance.
- XVII. **Plantation activities along the rivers:** Letter addressed to the DCF, Belagavi, Karnataka Forest Department for compliance. Directions issued by the DC, Belagavi to Forest Dept.
- XVIII. **Development of biodiversity park:** Letter addressed to the DCF, Belagavi, Karnataka Forest Department for compliance. Directions issued by the DC, Belagavi to Forest Dept.
- XIX. **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. 04 No's of sugar industries have installed OCEMS. The treated sewage of TMC, Bailhongal is used for irrigation purposes.

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

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

XXIV:**Regulation of Mining Activities in the State/UT:** There is no mining activity located in the Malaprabha river basin.

XXII. **Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring:** Meeting held on 11-09-2021 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.

XXIII. **Overall progress of the month:**

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

STP's Status :

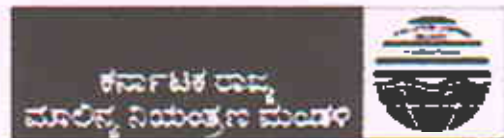
1. **TP-Khanapur, TP-Munavalli, M K Hubli & TMC-Soundatti:**
Tender awarded.
2. **TMC-Ramdurg:** Yet to commission STP's of capacities 3.30 & 1.0 KLD each.

The samples collected from Malaprabha River at downstream of Khanapur town, Hubli-Dharwad water abstraction point at Soundatti & Markandeya River Rakaskoppa Reservoir. The analysis report for the month of Nov-2022 is enclosed.

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

Regional Office : Belagavi-1
Karnataka State Pollution Control Board
#1, Main Road, Auto Nagar,
Karnapur Industrial Area, Belagavi-590 015
Telefax : 0831-2459121

ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ : ಬೆಲಗಾವಿ-೧
೧ ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಆಟೋ ನಗರ,
ಕರ್ನಾಪುರ ಕೈಗಾರಿಕಾ ಪ್ರದೇಶ,
ಬೆಲಗಾವಿ-೫೯೦೦೧೫
ತೆಲೆಫಾಕ್ಸ್: ೦೮೩೧-೨೪೫೯೧೨೧



Towards a cleaner Karnataka

ANALYSIS REPORT : RIVER Regional Laboratory, Belagavi

NO: PCB/BGV-1/LAB/AR/NWMP/2022-23/ 750	Date: 13/12/22
NAME OF THE STATION	: River water
SAMPLE COLLECTED BY	: E. O. Belgaum.
DATE OF RECEIPT	: 03-11-2022 (1247). 04-11-2022 (1253-1257).
PARTICULARS OF SAMPLE	: 1247-Malaprabha River sample collected at Hubli-Dharwad Water abstraction point at Saundatti. 1253-Markandeya River Rakksakoppa Reservoir. 1257- ~~Rakksakoppa~~ Malaprabha River water sample collected at D/s of Khanapur Town.

Sl No.	Sample No.s Parameters		1247	1253	1257
GENERAL OBSERVATIONS					
I	Station Code		1164	4098	1187
II	Date of Collection		02/11/2022	03/11/2022	03/11/2022
III	Time of Collection		01.15 pm	01.20 pm	12.20 pm
IV	Weather		Clear	Windy	Clear
V	Deapth of the Stream		> 100 cm	> 100 cm	> 100 cm
VI	Colour		Clear	Clear	Clear
VII	Intensity		Light	Light	Light
VIII	Odour		None	None	None
IX	Viss. Eff. Discharge in Proximity		None	None	None
X	Human activities		WSP	WSP	
XI	Location Details		-		
LAB ANALYSIS			Units		
1	Temperature	°C	21	22	24
2	Dissolved oxygen	mg/l	6.8	6.5	7.1
3	pH	-	8.88	9.27	8.03
4	Conductivity	uMhos/cm	328	210	208
5	BOD	mg/l	1.62	1.5	0.66
6	Nitrate as NO ₃	mg/l	13.33	14.79	12.54
7	Ammonia As N	mg/l	BDL	BDL	BDL
8	Total Coli	mpn/100ml	1600	920	1600
9	Faecal Coli	mpn/100ml	920	540	920
10	Faecal Streptococci	mpn/100ml	350	280	540
11	Turbidity	ntu	0.9	2.1	5.2
12	Total Alkalinity	mg/l	116	56	56
13	Pheno Alkalinity	mg/l	20	12	Nil

Contd.,

14	Hardness as CaCO ₃	mg/l	88	60	68
15	Calcium as CaCO ₃	mg/l	52	40	28
16	Calcium as Ca	mg/l	21	16	11
17	Magnesium as MgCO ₃	mg/l	36	20	40
18	Magnesium as Mg	mg/l	9	5	10
19	Chlorid as Cl	mg/l	32	24	32
20	Sulphate as SO ₄	mg/l	10	4	4
21	Sodium as Na	mg/l	13	4	6
22	Pottasium as K	mg/l	1.72	1.19	1.33
23	Total Dissolved Solids	mg/l	200	120	120
24	Fixed Dissolved Solids	mg/l	80	40	40
25	Total Suspended Solids	mg/l	5	10	15
26	Total Phosphate as P	mg/l	0.378	0.479	0.506
27	Phosphate as P	mg/l	0.045	0.047	0.028
28	Fluoride as F	mg/l	0.279	0.031	0.028
29	COD	mg/l	32	32	28
30	TKN as N	mg/l	BDL	BDL	BDL
31	Boron as B	mg/l	BDL	BDL	BDL
32	Nitrite as N	mg/l	0.226	0.455	0.295
33	Percent Sodium	-	24	12	16
34	Sodium Absorption Ratio	-	0.602	0.223	0.315
35	Class	-	C	C	C
36	Water Quality Index (WQI)	-	S	S	S

This report refers only to the particular sample/job submitted for testing.
It should not be reproduced except in full.
WSP= Water Supply Point.

Analysed by

Laboratory Head
Authorised Signatory
Scientific Officer
Regional Laboratory
Karnataka State Pollution Control Board
Belgaum.

.....End of Report.....

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 & Kumaradhara)

Overall status of the State: KARNATAKA (Dakshina Kannada)		
Name of The River		Netravathi & Kumaradhara
Polluted River Stretch		Netravathi & Kumaradhara
Priority		Priority - V
Status as on		November -2022
Overall status of the State:		
I	Total Population : Urban Population & Rural Population Separately	47,327 (As per 2011 census) <i>(The Population is consider within the polluted river stretch of length 55KM)</i>
	Urban Population	40,155
	Rural Population	7,172
II	Estimated Sewage Generation (MLD):	5.1 MLD
III Details of Sewage Treatment Plant		
Existing no. of STPs and Treatment Capacity (in MLD)		No Existing STPs in Bantwala and Belthangady TMC Bantwala is taken up UGD construction work and is under progress
Capacity Utilization of existing STPs		NA
MLD of sewage being treated through Alternate technology		NA
Gap in Treatment Capacity in MLD:		5.1MLD
No. of Operational STPs:		
No. of Complying STPs:		NA

• No. of Non-complying STPs:	NA
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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 %	Status of I&D or House sewer connections	Completion Timeline
NIL					

Details of proposed STPs in the State

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Tendering/ Awarded)	Likely Date of Completion
NIL				

IV Details of Industrial Pollution

• No. of industries in the State (D.K District)	<u>0</u>
• No. of water polluting industries in the State	<u>0</u>
• Quantity of effluent generated from the industries in MLD	<u>NA</u>
• Quantity of Hazardous Sludge generated from the Industries in TPD	<u>NA</u>
• Number of industrial units having ETPs	<u>NA</u>
• Number of industrial units connected to CETP	<u>NA</u>
• Number and total capacity of ETPs (details of existing/ under construction / proposed)	<u>NA</u>
• Compliance status of the ETPs	<u>NA</u>
• Number and total capacity of CETPs (details of existing/ under construction / proposed)	<u>NIL</u>

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

V Solid Waste Management

- Total number of Urban Local Bodies and their Population List is attached as

Sl. No	Local Bodies	Population
1	Town Municipal council, Bantwala, Dakshina Kannada District.	40155
2	Uppinangady Grama Panchyath, Puttur Taluk, Dakshina Kannada District	7172
3	Subrahmanya Grama Panchyath, Puttur Taluk, Dakshina Kannada District	4443
4	Town Panchyath, Belthangadi Taluk, Dakshina Kannada District	7746

Current Municipal Solid Waste Generation	16.49 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), biomethanation, MRF etc	Composting-6.56 TPD by TMC Bantwala and Belthangadi. - The local bodies are practicing the system of door to door collection of segregated municipal solid waste. - Wet waste handed over to MCC for further disposal by TMC Bantwala. - TP Belthangadi wet waste is composted (vermin compost) in the identified the solid waste disposal site. - The dry recyclable waste such as are segregated and sent to recyclers. - Subrahmanya Grama Panchayath has installed

	incinerators for disposal of dry waste.
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 wrt O.A.360 of 2018.
No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)	There is 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	8

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 for wet waste • MRF for dry waste	100%	Proposed incinerator for waste disposal by 31.03.2022
Belthangadi TP	2.49	1.94	• Windrows System • MRF	100%	NIL

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 hospitals and HCEs hand over their biomedical waste for further treatment and disposal to CBMWTF- M/s. Ramky Enviro Tech Pvt. Ltd., Mulki, D.K. and M/s. Ayush Enviro tech Pvt. Ltd., Padubidre Udupi.

VII Hazardous Waste Management

• Total Hazardous Waste Generation	NIL
• No of Industries Generating Hazardous Waste	<u>NIL</u>
• Treatment Capacity of all TSDFS	NIL. No TSDF proposed in the jurisdiction of RO-Mangalore. Hazardous waste generated in the District is sent to TSDF, Bangalore for landfilling, various incinerators, Co-processors & Recyclers across the state for treatment & disposal
• Avg Quantity of Hazardous Waste reaching the TSDFs and treated	
• Details of on-going or proposed TSDF	

VIII Plastic Waste Management

	• Total Plastic Waste generation	392 MT/A
	• Treatment/ Measures adopted for reduction or management	• Single use plastic is totally banned in Karnataka as per GoK Notification No:

	of plastic waste	No. FEE/17EPC2012, Bangalore, dated: 1-03-2016. • 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 ULB limit maximum no. of individual houses are having ST & SP for toilet blocks. • Revised river rejuvenation action plan submitted on 08.05.2020 with directions to stakeholder for • Proposal for Underground drainage system proposed in all areas for 100% waste water treatment. • Untreated sewage entering in to the rivers should be reduced by laying the drainage network & connecting it to sewage treatment plant. • To install STP's for treatment of domestic wastes and scientific disposal facilities for solid waste generated from the villages & town located on the bank of Netravathi River and Kumaradhara 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 flow details and ground water quality in the catchment of polluted river;	Attached as Annexure
XIV	Ground water regulation	The industry authorities are directed to obtain NOC from State/ District Ground water Authority.
XV	Good irrigation practices being adopted by the State	NA
XVI	Rain Water Harvesting	Directions will be given to agricultural/irrigation department to organize awareness programmes in farmers to conserve water and good irrigation practices to be adopted.
XVII	Demarcation of Floodplain and removal of illegal encroachments	Directions have been given to Forest Department to submit details about flood plain zone and to carry out massive plantation and also notify the FPZ. Gazing station at Bantwala. through DEP
XVIII	Maintaining minimum e-flow of river	Directions given to agricultural/irrigation department to organize awareness programmes in farmers to conserve water and good irrigation practices to be adopted
XIX	Plantation activities along the rivers	NA
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	Directions being 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	Being monitored and 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. Previously the wet waste was being handed over to MCC for further process. ➤ This office has issued notices to urban local bodies to identify and obtain the Authorization under C&D Waste management Rules, 2016. ➤ Awareness regarding segregation of COVID-19 and non-COVID-19 WASTE and biomedical waste generated from houses is being given to public by local bodies as per the directions of KSPCB. ➤ 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.	

**REGIONAL OFFICER
KSPCB, MANGALURU**



KARNATAKA STATE POLLUTION CONTROL BOARD

No 10 B, Industrial Area Baikampady Mangalore 575011 Ph No: 0824-2408420

PCB/RO(MNG)/MINARS-883-889/2022-23/R No : 436

DATE: 10/11/2022

ANALYSIS REPORT OF WATER QUALITY

NAME OF THE INDUSTRY/LOCATION :			River water samples (MINARS)					
SAMPLE COLLECTED BY :			EO, Mangaluru					
DATE OF COLLECTION :			13.10.2022					
DATE OF RECEIPT :			13.10.2022					
SAMPLE NO & PARTICULARS OF SAMPLE COLLECTED:			1. River Nethravathi U/s of Darmasthala water supply intake point (883). 2. River Kumaradhara U/s of Uppinangady town before confluence with Nethravathi river (884). 3. River Nethravathi D/s of Bantwal town Mangalore water Supply Point (Minars)Thumbay (885). 4. River Nethravathi U/s of Uppinangady town before confluence with Kumaradhara river (886). 5. Borewell water collected at Mangala nagar vamanjoor (MINARS) (887). 6. Pond water collected at Pilikula Tank (888).					
S.NO	PARAMETERS	UNITS	Result					
			Sample No.883	Sample No.884	Sample No.885	Sample No.886	Sample No.887	Sample No.888
Station Code			1892	1894	3562	3563	3564	3565
Catagory			B	B	B	B	C	B
1	pH	pH unit	7.5	7.4	7.3	7.3	6.9	7.2
2	Colour	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless
3	Odour	Odourless	Odourless	Odourless	Odourless	Odourless	Odourless	Odourless
4	Temprature	°c	28	27	27	27	27	28
5	Turbidity	NTU	2.4	1.8	2.8	2.5	3.8	BDL
6	Dissolved Oxygen	mg/l	6.6	7.3	6.5	6.9	4.2	7.8
7	Total Alkalinity	mg/l	64	76	56	60	108	80
8	P.Álkalinity	mg/l	BDL	BDL	BDL	BDL	BDL	BDL
9	Counductivity	µohms/cm	140	134	140	134	202	137
10	TDS	mg/l	116	106	108	104	168	112
11	Total Fixed Solids	mg/l	BDL	BDL	BDL	BDL	BDL	BDL
12	Total Suspended Solids	mg/l	10	14	10	14	14	12
13	Hardness	mg/l	38	28	28	24	70	26
14	Calcium	mg/l	18	12	10	6	22	8
15	Magnesium	mg/l	20	16	18	18	48	16
16	Chloride	mg/l	18	24	20	18	28	24
17	Sulphate	mg/l	4	4	3	10	18	10
18	Fluoride	mg/l	0.061	0.067	0.056	0.068	0.12	0.073
19	Nitrate	mg/l	2.1	2.4	2.8	3	3.5	2.9
20	Phosphate	mg/l	BDL	BDL	BDL	BDL	BDL	BDL
21	Sodium	mg/l	BDL	BDL	BDL	BDL	BDL	BDL
22	Potassium	mg/l	BDL	BDL	BDL	BDL	BDL	BDL
23	Boron	mg/l	BDL	BDL	BDL	BDL	BDL	BDL
24	COD	mg/l	22	24	20	26	28	27
25	BOD	mg/l	2	2	2	3	3	3
26	Ammonical Nitrogen	mg/l	BDL	BDL	BDL	BDL	BDL	BDL
27	TKN	mg/l	BDL	BDL	BDL	BDL	BDL	BDL
28	Coliform Total	MPN/100ml	460	350	470	220	120	140
29	Coliform Fecal	MPN/100ml	68	39	68	34	17	21
30	Fecal Streptococci	MPN/100ml						

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 ND---Not Detected, 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

Scientific Officer
LAB HEAD

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	November- 2022

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.	KUWS&DB has issued work order vide dtd on 15-04-2020 to contractor and 950 nos. of manholes and wet well & pump house roof slab concrete completed.	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. About 60 % of the work has been completed.	14-04-2022

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
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.
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-18 Wards
Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)	-
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	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 50% of the work is completed.

VI. 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

VII. 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	-
Details of on-going or proposed TSDF	-

VIII. 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 ride will be carried out.

Particulars	TMC Maddur
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:	One drain is identified & monitored. The sullage effluent is having BOD & TC in excess of standards & said drain is to be connected to nearby wet well to pump the same to STP.
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;	Status of water quality of polluted rivers in Annexure-1.
XIV. 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. <u>Status of Ground Water Resource Assessment in Annexure-2</u>
XV. 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 Taluk. • Farmers are made aware to use water optimally.
XVI. 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.
XVII. Demarcation of Flood plain and removal of illegal encroachments:	
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 yet submitted
XIX. 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
XX. 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.
XXI. Reuse of Treated Water:	Treated water is used on land for irrigation.
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:	a) With respect to treatment & disposal of sewage effluent the LB's have taken

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

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 and 950 nos. of manholes and wet well & pump house roof slab concrete completed. About 60% of the work has been completed. **No progress.**

- b) With respect to Solid Waste Management by Municipalities, steps have been taken to 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. About 50% of the work is completed. **No progress.**

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	D/S of river Shimsha near Bangalore-Mysore Road Bridge Maddur, Maddur Tq, Mandya District	November-22	6.0	3.0	170	1400
2	D/s of river shimsha near Halgur Road Bridge, Malavalli Tq, Mandya District	November-22	6.0	3.0	240	1300

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	Maddur	9893.26	5537.37	4355.89	56%	*Safe (≤ 70)
Note:- 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 by March 2021.						

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 : 30.11.2022

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	13MLD	Working	Complied

	Shivamogga Tq & Dist				
2	City Corporation, Shivamogga, Sy.No.33/ P1, Purle village, Shivamogga Tq & Dist	5.13MLD	0.52MLD	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	95%	-	June-2022

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 **169 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 : 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:

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

Further KUWS&DB, Shivamogga has taken up I and D (Interception & Diversion) Works and it is under tender stage.

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	169 TPD	150 TPD (2 Shifts)	75TPD(Considering 8 hr Shift) and they operate the unit in two shifts to process the MSW	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:--

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;

Earlier Samples were collected from the drains and Bore well and Results also Submitted along with Action Plan. This Office has all collected drains and Bore well samples during July 2022. This Office is collecting the River Water Samples every month at 2 Locations.

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:---

KARNATAKA STATE POLLUTION CONTROL BOARD, CENTRAL ENVIRONMENTAL LABORATORY-2, DAVANGERE.
NWMP RIVER WATER ANALYSIS REPORT FOR THE MONTH OF NOVEMBER-2022

FIELD OBSERVATIONS

Sl No	Sample Nos	W-438	W-439	W-440	W-441	W-442	W-443	W-444
	Station code	2765	4105	1387	1169	1896	1106	1168
I	Date & Time of collection	17.11.2022	17.11.2022	17.11.2022	17.11.2022	17.11.2022	17.11.2022	17.11.2022
		12:00PM	12:20PM	12:40PM	1:00PM	1:20PM	10:45AM	11:00AM
II	Weather	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny
III	Approximate depth	>100cm	>100cm	>100cm	>100cm	>100cm	>100cm	>100cm
IV	Colour & Intensity	Clear	Clear	Clear	Clear	Clear	Clear	Clear
V	Odour	None	None	None	None	None	None	None
VI	Visible effluent discharge	None	None	None	None	None	None	None
VII	Human activities around the station	None	None	None	None	None	None	None
VIII	Station details	U/s of MPM, Bhadra River, Karnataka	D/s of MPM, Bhadra River, Karnataka	D/s of Bhadravathi, Bhadra River, Karnataka	Holebentur Bridge, Bhadra River, Karnataka	Kudli Confluence point, TB River, Karnataka	U/s of Shivamogga, Tunga river, Karnataka	D/s of Shivamogga, Tunga river, Karnataka

CORE PARAMETERS

Sl No	Parameter	Unit						
1	Temperature	°C	27	27	26	27	27	26
2	DO	mg/L	7.1	6.8	6.7	6.9	7.0	6.7
3	pH	pH unit	8.0	8.2	8.0	8.0	8.3	7.9
4	Conductivity	µS/cm	240	600	250	250	110	132
5	BOD	mg/L	1.6	3.9	2.0	1.7	1.8	2.8
6	Nitrate as N	mg/L	0.53	0.53	0.60	0.53	0.62	0.40
7	Total Coli form	MPN/100ml	260	540	2400	1400	280	1300
8	Faecal Coli form	MPN/100ml	26	63	250	170	40	21

GENERAL PARAMETERS

Sl No	PARAMETER	UNIT						
1	Turbidity	NTU	15	8	36	37	26	23
2	P-Alkalinity as CaCO ₃	mg/L	Nil	Nil	Nil	Nil	Nil	Nil
3	Total Alkalinity as CaCO ₃	mg/L	90	210	92	84	94	38
4	Chloride	mg/L	30	34	30	24	30	16
5	COD	mg/L	16	28	22	17	20	15
6	TKN	mg/L	2.80	2.94	3.36	3.64	2.10	2.38
7	Ammonia as N	mg/L	1.60	1.72	2.46	2.46	1.60	1.72
8	Hardness as CaCO ₃	mg/L	90	282	102	90	120	40
9	Calcium as CaCO ₃	mg/L	42	142	42	46	48	24
10	Calcium as Ca++	mg/L	16.80	56.80	16.80	18.40	19.20	9.60
11	Magnesium as CaCO ₃	mg/L	48	140	60	44	72	16
12	Magnesium as Mg++	mg/L	11.60	34.02	14.58	10.69	17.30	3.89
13	Sulphate	mg/L	10.40	58.00	10.00	14.80	16.00	4.00
14	Sodium	mg/L	24	25	18	20	14	11
15	Total Dissolved Solids	mg/L	168	392	172	160	174	76
16	Total Fixed Solids	mg/L	160	370	162	152	166	70
17	Total Suspended Solids	mg/L	12	16	20	22	20	12
18	Phosphate as PO ₄	mg/L	BDL	0.12	0.20	BDL	BDL	BDL
19	Boron	mg/L	BDL	BDL	BDL	BDL	BDL	BDL
20	Potassium	mg/L	1	1	2	1	1	1
21	Fluoride	mg/L	0.21	0.34	0.18	0.21	0.38	0.11

Class/category
Water Quality Index

Analysed by

Verified by
Deputy 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

Pertaining to KSPCB Regional Office, Davangere.

Name of the River : Tungabhadra
Polluted river stretch : Honnali to Haralahalli Bridge
Priority : III
Status as on : 30.11.2022

Overall status of the State:

I. Total Population: Urban Population & Rural Population separately

Davangere (CC): - 43,4971. Harihara (CMC): - 77,447.
Honnalli (TP): - 17,928.

II. Estimated Sewage Generation (MLD): **54.64 MLD (44 + 8.84 + 1.8 from 3 Local bodies)**

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.

Honnalli : 3.3 MLD.

- Capacity Utilization of existing STPs: **54.64 MLD.**
- MLD of sewage being treated through Alternate technology: **Nil**
- Gap in Treatment Capacity in MLD: **Nil**
- No. of Operational STPs: **6 No's**
- No. of Complying STPs: **4 No's**
- No. of Non-complying STPs: **2**

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	14.8	9	Operating	Complied
2	Davangere	20	16	Operating	Complied
3	Davangere	20	16	Operating	Complied
4	Davangere	5	3	Operating	Complied
5	Harihara CMC	18	8.84	Operating	Not Complied
6	Honnalli	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
-	-	-	-	-	-

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 District)

- No. of industries in the State: **(Davangere Dist: 312).**
- No. of water polluting industries in the State: **2. (2 major industries located on River bank, viz; Harihara polifibers and Grasiline Division of Grasim Industries)**
- 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.**
- Quantity of Hazardous Sludge generated from the Industries in TPD: **0.0 TPD.**

- Number of industrial units having ETPs: **2.**
- 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)
- 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)
Davangere	2	32.500 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**
 Honnalli TP – **17,928**

- Current Municipal Solid Waste Generation –

Davangere CC – 170 TPD
 Harihar CMC - 35 TPD
 Honnalli TP - 7 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..

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	TP Honnalli	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	32	32
Harihar CMC	31	20	20
Honnalli TP	18	14	14

- 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

Sl.No	No. of drains falling into rivers	No. 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	Leachate Treatment Plant , windrow platform, composting and vermi composting facilities	170 TPD	-
Harihar CMC	35 TPD	35 TPD	Provided Biogas facility, composting and vermi composting	35 TPD	-

Honnalli TMC	7 TPD	7 TPD	Composting	7 TPD	-

VI. Bio-medical Waste Management:

- Total Bio-medical waste generation: **1.38 TPD (In entire davangere district)**
- No. of Hospitals and Health Care Facilities: **29 (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., Davangere for further treatment and disposal.**

VII. Hazardous Waste Management:

- Total Hazardous Waste generation : **(2 major industries located on River bank, viz; Harihara polifibers and Grasiline Division of Grasim Industries)**
ETP sludge – Nil
Cotton waste & Used oil filters – **2.0 MT/A**
Used oil – **8.9 KL/ Annum**
- No. of Industries generating Hazardous waste: **2**
- Treatment Capacity of all TSDFs: **Nil (There is no TSDF in this office jurisdiction)**
- 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 this office Jurisdiction.

- 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)	Village sewage

2	Hole Haralahalli village (Left bank)	Village sewage
3	Harihara Town (Right bank)	City sewage
4	Chikkabidari Village & Sarathi halla (Right bank)	Village sewage
5	Didagur village (Left bank)	Village sewage
6	Nadiharalahalli Village (Left bank)	Village sewage
7	Hirebidari village (Left bank)	Village sewage
8	Aravi village (Left bank)	Village sewage
9	Kuravathi village (right bank)	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 River Rejuvenation held on 30.09.2022. (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; - **November 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 Flood plain 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.**
- XX. Development of biodiversity park: --
- XXI. Reuse of Treated Water: **District level special Environment surveillance Task force committee chairman has informed 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 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 colour 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 effluent and as well as 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. Proceedings of the meeting awaited.**

Annexure 1. Tungabhadra river results.

KARNATAKA STATE POLLUTION CONTROL BOARD, CENTRAL ENVIRONMENTAL LABORATORY-2, BANGALORE. MONTHLY WATER QUALITY ANALYSIS REPORT FOR THE MONTH OF NOVEMBER 2022

OBSERVATIONS									
No.	Sample No.	W-1/5	W-1/6	W-1/7	W-1/8	W-1/9	W-2/1	W-2/2	W-2/3
Station code									
Date & Time of collection									
1	Water	Water	Water	Water	Water	Water	Water	Water	Water
2	Temperature	25	25	25	25	25	25	25	25
3	pH	7.1	6.8	7.1	6.7	7.0	7.0	7.1	6.1
4	Conductivity	80	82	80	80	80	80	80	7.6
5	DO	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
6	Hardness	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7	Total Solids	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
8	Total Solids	200	200	200	200	200	200	200	200
9	Total Solids	20	20	20	20	20	20	20	20
10	Total Solids	20	20	20	20	20	20	20	20
11	Total Solids	20	20	20	20	20	20	20	20
12	Total Solids	20	20	20	20	20	20	20	20
13	Total Solids	20	20	20	20	20	20	20	20
14	Total Solids	20	20	20	20	20	20	20	20
15	Total Solids	20	20	20	20	20	20	20	20
16	Total Solids	20	20	20	20	20	20	20	20
17	Total Solids	20	20	20	20	20	20	20	20
18	Total Solids	20	20	20	20	20	20	20	20
19	Total Solids	20	20	20	20	20	20	20	20
20	Total Solids	20	20	20	20	20	20	20	20
21	Total Solids	20	20	20	20	20	20	20	20
22	Total Solids	20	20	20	20	20	20	20	20
23	Total Solids	20	20	20	20	20	20	20	20
24	Total Solids	20	20	20	20	20	20	20	20
25	Total Solids	20	20	20	20	20	20	20	20
26	Total Solids	20	20	20	20	20	20	20	20
27	Total Solids	20	20	20	20	20	20	20	20
28	Total Solids	20	20	20	20	20	20	20	20
29	Total Solids	20	20	20	20	20	20	20	20
30	Total Solids	20	20	20	20	20	20	20	20
31	Total Solids	20	20	20	20	20	20	20	20
32	Total Solids	20	20	20	20	20	20	20	20
33	Total Solids	20	20	20	20	20	20	20	20
34	Total Solids	20	20	20	20	20	20	20	20
35	Total Solids	20	20	20	20	20	20	20	20
36	Total Solids	20	20	20	20	20	20	20	20
37	Total Solids	20	20	20	20	20	20	20	20
38	Total Solids	20	20	20	20	20	20	20	20
39	Total Solids	20	20	20	20	20	20	20	20
40	Total Solids	20	20	20	20	20	20	20	20
41	Total Solids	20	20	20	20	20	20	20	20
42	Total Solids	20	20	20	20	20	20	20	20
43	Total Solids	20	20	20	20	20	20	20	20
44	Total Solids	20	20	20	20	20	20	20	20
45	Total Solids	20	20	20	20	20	20	20	20
46	Total Solids	20	20	20	20	20	20	20	20
47	Total Solids	20	20	20	20	20	20	20	20
48	Total Solids	20	20	20	20	20	20	20	20
49	Total Solids	20	20	20	20	20	20	20	20
50	Total Solids	20	20	20	20	20	20	20	20
51	Total Solids	20	20	20	20	20	20	20	20
52	Total Solids	20	20	20	20	20	20	20	20
53	Total Solids	20	20	20	20	20	20	20	20
54	Total Solids	20	20	20	20	20	20	20	20
55	Total Solids	20	20	20	20	20	20	20	20
56	Total Solids	20	20	20	20	20	20	20	20
57	Total Solids	20	20	20	20	20	20	20	20
58	Total Solids	20	20	20	20	20	20	20	20
59	Total Solids	20	20	20	20	20	20	20	20
60	Total Solids	20	20	20	20	20	20	20	20
61	Total Solids	20	20	20	20	20	20	20	20
62	Total Solids	20	20	20	20	20	20	20	20
63	Total Solids	20	20	20	20	20	20	20	20
64	Total Solids	20	20	20	20	20	20	20	20
65	Total Solids	20	20	20	20	20	20	20	20
66	Total Solids	20	20	20	20	20	20	20	20
67	Total Solids	20	20	20	20	20	20	20	20
68	Total Solids	20	20	20	20	20	20	20	20
69	Total Solids	20	20	20	20	20	20	20	20
70	Total Solids	20	20	20	20	20	20	20	20
71	Total Solids	20	20	20	20	20	20	20	20
72	Total Solids	20	20	20	20	20	20	20	20
73	Total Solids	20	20	20	20	20	20	20	20
74	Total Solids	20	20	20	20	20	20	20	20
75	Total Solids	20	20	20	20	20	20	20	20
76	Total Solids	20	20	20	20	20	20	20	20
77	Total Solids	20	20	20	20	20	20	20	20
78	Total Solids	20	20	20	20	20	20	20	20
79	Total Solids	20	20	20	20	20	20	20	20
80	Total Solids	20	20	20	20	20	20	20	20
81	Total Solids	20	20	20	20	20	20	20	20
82	Total Solids	20	20	20	20	20	20	20	20
83	Total Solids	20	20	20	20	20	20	20	20
84	Total Solids	20	20	20	20	20	20	20	20
85	Total Solids	20	20	20	20	20	20	20	20
86	Total Solids	20	20	20	20	20	20	20	20
87	Total Solids	20	20	20	20	20	20	20	20
88	Total Solids	20	20	20	20	20	20	20	20
89	Total Solids	20	20	20	20	20	20	20	20
90	Total Solids	20	20	20	20	20	20	20	20
91	Total Solids	20	20	20	20	20	20	20	20
92	Total Solids	20	20	20	20	20	20	20	20
93	Total Solids	20	20	20	20	20	20	20	20
94	Total Solids	20	20	20	20	20	20	20	20
95	Total Solids	20	20	20	20	20	20	20	20
96	Total Solids	20	20	20	20	20	20	20	20
97	Total Solids	20	20	20	20	20	20	20	20
98	Total Solids	20	20	20	20	20	20	20	20
99	Total Solids	20	20	20	20	20	20	20	20
100	Total Solids	20	20	20	20	20	20	20	20

Approved by
Scientific Assistant

Verified by
M. A.

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	Yagachi river
Polluted river stretch	Belur to Halavagilu, Hassan
Priority	V
Status as on	November- 2022

Overall status of the State:

Particulars		TMC Belur	CMC Hassan	Total
I.	Total Population: Urban Population & Rural Population separately	22848	155006	177854
II.	Estimated Sewage Generation (MLD):	2.4	16.74	19.14

III. Details of Sewage Treatment Plant:

Particulars	TMC Belur	CMC Hassan	Total
Existing no. of STPs and Treatment Capacity (in MLD):	2.7 MLD	10MLD	12.7
Capacity Utilization of existing STPs:	2.7	10	12.7
MLD of sewage being treated through Alternate technology:	--	--	
Gap in Treatment Capacity in MLD:	Nil	6.74 MLD	6.74MLD
No. of Operational STPs:	1	1	2
No. of Complying STPs:	0	0	0
No. of Non-complying STPs:	1	1	2

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 Belur	Nehru Nagar, Belur Town, Belur Taluk & Hassan District	2.7MLD	2.7MLD	Operational	Not Complied. Special Environment Task Force meeting was conducted on 01.02.2022. Proceedings of the same is enclosed.
CMC, Hassan	Sy No 86 &100, Bittagondanahalli village Hassan Tq & Dist	10MLD	10MLD	Operational	
Total		12.7	12.7		

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 Belur	Nil	Nil	Nil	1 drain carrying sullage effluent is to be connected to STP. No Work Progress. 80% of the area covered with UGD & further work in progress	31.03.2024
CMC, Hassan	Nil	Nil	Nil	1 drain carrying sewage & sullage effluent is to be connected to STP. No Work Progress. 75% of the area covered with UGD & further work in progress	31.03.2023
Total					

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 Belur	Near existing STP Nehru Nagar, Belur Town, Belur Taluk & Hassan District	Up gradation of existing 2.7 MLD STP to 5.0 MLD by SBR Technology	Revised DPR is approved by Government for Rs. 14 Crores to divert the sewage discharged in to river through storm water drain. Up gradation of existing	31.03.2024

			2.7 MLD STP to 5.0 MLD.	
CMC, Hassan	a) Existing STP, Sy No 86 & 100, Bittagondanahalli village Hassan Tq & Dist - 10MLD b) Channapatna, Hassan-10MLD c) Hunsinakere, Hassan - 5 MLD d) Gavenahalli, Hassan - 2 MLD e) Sathyamangala, near veterinary college, Hassan- 2 MLD	a) Up gradation of existing 10 MLD STP to 20 MLD by SBR Technology b) Proposed 10MLD c) Proposed 5MLD d) Proposed 2MLD e) Proposed 2MLD	Revised DPR is approved by Government for Rs. 165 Crores to divert the sewage discharged in to river through storm water drain. Up gradation of existing 10 MLD STP to 39 MLD.	31.03.2023

IV. Details of Industrial Pollution:

Particulars	TMC Belur	CMC Hassan	Total
No. of industries in the State:	Nil	5	5
No. of water polluting industries in the State:	Nil	1*	1
Quantity of effluent generated from the industries in MLD:	0	0.0	0.0
Quantity of Hazardous Sludge generated from the Industries in TPD:	0	0	0
Number of industrial units having ETPs:	0	0	0
Number of industrial units connected to CETP:	Nil	Nil	Nil
Number and total capacity of ETPs (details of existing/ under construction / proposed)	Nil	Nil	Nil
Compliance status of the ETPs:	Nil	Nil	Nil
Number and total capacity of CETPs (details of existing/ under construction / proposed)	Nil	Nil	Nil

*-Sewage

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 Belur	Nil	Nil	Nil	Nil
CMC, Hassan	Nil	Nil	Nil	Nil
Total				

V. Solid Waste Management:

Particulars	TMC Belur	CMC Hassan	Total
Total number of Urban Local Bodies and their Population	22848	155006	177854
Current Municipal Solid Waste Generation	11	77	88
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	• Composting Existing – 1 Gap – 3.51 TPD • Sanitary landfill Existing– Nil Gap – 2.75 TPD	• Composting Existing – 11 Gap – 20.57 TPD • Sanitary landfill Existing–Nil Gap – 19.25 TPD	
Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)	DPR for Rs. 1.7 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.	DPR for Rs. 5.9 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	Nil	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- 23 Wards	• Door to door collection 12/35 Wards. • Segregation practice- 12 Wards	
Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)	Nil	Nil	Nil
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	Nos. of drains 1 Nos. of drains having floating racks / screen – Nil	Nos. of drains 1 Nos. of drains having floating racks / screen – Nil	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
TMC Belur	8	1	Pit Composting	1	ULBs have been informed to submit the time line for completion.
CMC, Hassan	62	11	Pit Composting	11	
Total	70	12		12	

VI. Bio-medical Waste Management:

Particulars	TMC Belur	CMC Hassan	Total
Total Bio-medical generation:	45Kg/day	1557Kg/day	Nil
No. of Hospitals and Health Care Facilities:	Bedded: 3 Non Bedded: 63	Bedded:38 Non Bedded: 242	Nil
Status of Treatment Facility/ CBMWTF:	CBMWTF	CBMWTF	Nil

VII. Hazardous Waste Management:

Particulars	TMC Belur	CMC Hassan	Total
Total Hazardous Waste generation:	0	0.01	0.01
No. of Industries generating Hazardous waste	0	01	01
Treatment Capacity of all TSDFs	-	-	-
Avg. Quantity of Hazardous waste reaching the TSDFs and Treated	-	0.01	0.01
Details of on-going or proposed TSDF	-	-	-

VIII. Plastic Waste Management:

Particulars	TMC Belur	CMC Hassan	Total
Total Plastic Waste generation:	200kg/day	2 tonne/day	2200kg/day
Treatment/ Measures adopted for reduction or management of plastic waste:	Bailing & stored and proposed to hand over to co incineration units	Bailing & stored and proposed to hand over to co incineration units	Bailing & stored and proposed to hand over to co incineration units

Particulars	TMC Belur	CMC Hassan
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:	1 drain identified and work order has been issued to upgrade existing STP as per action plan	1 drain identified and work order has been issued to upgrade the existing & proposed STP as per action plan.
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:	2 meetings were conducted under the chairmanship of DC , Hassan	2 meetings were conducted under the chairmanship of DC , Hassan
XIII. 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.	
XIV. Ground water regulation:	As per the discussion held with Sr. Geologist, District Ground Water Authority, Hassan for the month of October 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, notices has been issued to obtain NOC for extracting groundwater from Karnataka Ground Water Authority / District Ground Water Authority. Status of Ground Water Resource Assessment in Annexure-2	
XV. Good irrigation practices being adopted by the State:	The Dept. of Agriculture has informed that, they will submit action plan for implementation of following measures:	

	I. General Government Practice of Irrigation is maintained. II. Farmers are made aware to use water optimally.
XVI. Rain Water Harvesting:	As per the discussion held with Sr. Geologist, District Ground Water Authority, Hassan they have taken up measures to improve the ground water situation, rain water harvesting structure and some of the other artificial recharge structures to construct in their premises while giving the permission to extract ground water from the authority.
XVII. Demarcation of Floodplain and removal of illegal encroachments:	--
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:	Social Forestry Department, Hassan District has informed that they have proposed plan for plantation of saplings on the bank of Yagachi river polluted stretch for about 5 Kms in the ensuing monsoon season. The project is yet to be approved and sanctioned. Hence no progress made.
XX. Development of biodiversity park:	As of now, there are no biodiversity parks in Hassan & Belur Taluks. The Forest Department is requested to submit action plan for the proposed bio diversity parks. The status of the existing and proposed bio diversity parks and its implementations will be executed by September 2021 in coordination with the Forest 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:	-
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.	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 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.

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	Yagachi, Haluvagilu pump house, Hassan	November-22	6.8	2.1	170	1200
2	Yagachi river, Belur (abt 200mtrs from STP)	November-22	5.9	3.0	390	2200

ANNEXURE-2

6.1(vii) Status of Ground Water Resource Assessment in Annexure-4

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
Hassan	Hassan	13031.77	5926.47	7104.53	50%	*Safe (≤ 70)
Hassan	Belur	6318.88	3893.65	2425.23	66	*Safe (≤ 70)

Note:- 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.