National Mission for Clean Ganga
Format for Submission of monthly Progress report by states/UTs
(Hon'ble NGT in the matter of OA No.673/2018, Date: 06/12/2019)
KARNATAKA STATE POLLUTION CONTROL BOARD

Name of the River : Arkavathi
Polluted river stretch : Tippagondanahalli reservoir to Kanakapura Town (55 KM)
Priority : III
Status as on : September 2020

Sl. No.	Activity to be monitored	Timeline	Submission of Progress State/UT-Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	Action has been initiated by UDD, GoK to train the 35 ULBs on in-situ treatment, viz. phytoremediation and wet-land treatment.
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	KUWS&DB: Project proposal for the commencement of setting up of STPs at an estimated cost of ₹1690 crores has been submitted to GoK for approval. ₹100 crore provisions has been made for 2020-21 budget.
2	Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning	31.03.2021	KUWS&DB: 24 months from the date of handing over of the required land from the ULBs for STP construction and I&D works
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary level	22.01.2020	State level River Rejuvenation Committee (RRC) is constituted by GoK on 24/11/2018 under the Chairmanship of Principal Secretary to Government (Ecology and Environment). MS, KSPCB; Director, DIC and Director, DMA are the members of the committee. □ A monitoring cell is directly working under the Chief Secretary's Office, since 18/03/2020.
	• Chief Secretaries may have an accountable person attached in their office for this purpose.	22.01.2020	
	• Monitoring at State level must take place	Fortnightly Commencing 21- 12-2019	4th RRC meeting was held on 11/03/2020 under the Chairmanship of The Principal Secretary to Government (Ecology and Environment). Regular meetings will be conducted to review the progress.

<table>
<tr><td>4</td><td>Progress report may be furnished by the States/UTs to
• Secretary, Ministry of Jal Shakti
• Member Secretary, CPCB</td><td>Monthly (preferably before 20° of every month)</td><td>Progress report for the period up to August 2020 is as submitted.</td></tr>
<tr><td>6.1</td><td colspan="3">Progress Report may be comprised of details along with completion timelines on:</td></tr>
<tr><td>(i)</td><td>Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment</td><td></td><td>Total 16 numbers of drains are identified and monitored along PRS from Thippagondanahalli Reservoir to Kanakapura Town. The sullage effluent is having BOD & TC count in excess of the standards.

CMC Ramanagara: 11 drains are identified & monitored. The said drains are yet to be connected to STPs. The sullage effluent is having BOD & TC count in excess of the standards.

CMC Kanakapura: 5 drains is identified & monitored. The sullage effluent is having BOD & TC count in excess of the standards. works are yet to be under taken & steps are required to be taken to divert the sewage in to the nearby wet wells</td></tr>
<tr><td>(ii)</td><td><u>Status of STPs.I&D and sewerage networks</u> : Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline</td><td></td><td>CMC Ramanagara
Existing Sewage generation : 10.0MLD
Existing infrastructure: 7.5 MLD
Existing inflow of sewage to STP-6.0 MLD

Gap in Infrastructure-2.5MLD
Gap in Treatment: 4.0 MLD

Proposed Infrastructure: 2.5 MLD
Proposed Treatment:4.0 MLD

Proposed along with Completion Timeline: 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.

<u>Status of I&D works</u> :
<table>
<tr><td>Existing</td><td>Proposed</td></tr>
<tr><td>Nil</td><td>11 drains carrying sullage effluent is to be connected to STPs. No Work Progress</td></tr>
</table>
<u>Status of Sewerage works</u>:
<table>
<tr><td>Existing</td><td>Proposed</td></tr>
</table></td></tr>
</table>

60% of the area covered with UGD & further work in progress	DPR has been prepared and submitted to the Govt for the of laying of UGD network for the missing links.

Present Status : Provided 7.5 MLD STP for the treatment of 6.0 MLD sewage effluent & the said STP is put in to operations. Proposed to provide 2.5 MLD STP and for connecting missing link is yet to be taken up.

CMC Kanakapura
Existing Sewage generation : 4.4 MLD
Existing infrastructure: 6.29 MLD
Existing inflow of sewage to STP-3.8 MLD

Gap in Infrastructure-Nil
Gap in Treatment: 0.6 MLD

Proposed Infrastructure: Nil
Proposed Treatment: 0.6 MLD

Proposed along with Completion Timeline: 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.

Status of I&D works :

Existing	Proposed
Nil	05 drains carrying sullage effluent is to be connected to STPs. **No Work Progress**

Status of Sewerage works:

Existing	Proposed
80% of the area covered with UGD & further work in progress	DPR has been prepared and submitted to the Govt for the of laying of UGD network for the missing links.

Present Status: Provided 6.29 MLD STP for the treatment of 4.4 MLD sewage effluents & the said STP is put in to operations. 20% Sewer network for the entire town is yet to be completed.

			The Status of STPs, I&D and Sewerage Networks is shown in <u>Annexure-1</u>
(iii)	**<u>Status of CETPs</u>** Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status		a) There are no CETP in the jurisdiction of PRS Thippagondanahalli reservoir to Downstream of Kanakapura Town. b) There are only 2 industries (both Red category) in the Arkavathi River stretch. The sewage of 24.5KLD is being disposed to individual septic tank and soak pits. The trade effluent of about 578.2KLD is being treated and completely recycled. c) There are 145 industries (Red-29, Orange-43, Green-72 KLD) in V Valley catchment area which finally joins Arkavathi River about 20 km downstream of Byramangala Reservoir. About 3515 KLD of sewage and 4715 KLD of trade effluent is generated. There are 19 numbers of STPs and 31 number of ETPs (including combined ETPs) in the area. d) About 17.84 KLD of effluent from 14 industries is being sent to Common ETPs for treatment and disposal. However, there is no discharge of either sewage / trade effluent from the industries in the river stretch. Since, the KSPCB is not allowing any industries to discharge sewage and trade effluent in to the river.
(iv)	**<u>Status of Solid Waste Management</u>** <u>& Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		There are 2 numbers of local bodies i.e. CMC-Ramanagara and CMC Kanakapura generating total solid waste 64.0 TPD and exhibits the gap of 39.0 TPD with generation & existing treatment facilities. **<u>Status of Solid Waste Management & Details of Processing Facilities is shown in Annexure-2</u>**
(v)	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		**<u>6.1(v) Latest water quality of polluted river stretch for the month of August 2020 in Annexure-3</u>**
(vi)	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams, etc.		**<u>Bio Medical Waste</u>**: The HCEs located on polluted river stretch are collecting & disposing the BMW to the operator of CBMWTF & the non bedded HCEs i.e., Veterinary institutions the same through deep burial / sharp pits. Implementation of Bar code practice and to ensure proper collection & disposal of BMW to operator of CBMWTF from the entire HCEs. **<u>Plastic Wastes</u>** As per State Government Order complete ban of use of Plastic carry bags of irrespective size & thickness is enforced in all the polluted river stretch by the respective LBs and GPs. The Draft Policy and Plan for plastic waste management has been prepared by the ULB's. The process of disposing plastic waste/ RDF materials to

			cement plant for co-processing in cement kiln is under progress. However, the LBs have submitted action plan under District Environment Plan for collection and disposal of plastic wastes from Dry waste collection centers in to the respective recyclers. Accordingly time frame is fixed to implement the same by **December 2020.** There are no Plastic bags manufacturing industries in the polluted river stretch However Plastic waste generated in the industries is handed over to KSPCB authorized recyclers. Action is being initiated by the LBs for collection and disposal of solid wastes generating from Hotels and Ashramas located on Polluted river stretch.
(vii)	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 fulfil 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-4**
(viii	Adopting good irrigation practices,		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 .
(ix)	Protection and management of Flood Plain Zones(FPZ),		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
(x)	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.

(xi)	Maintaining minimum environmental 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
(xii)	Plantation on both sides of the river		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.
(xiii	Setting up biodiversity park on flood plains by removing encroachment		

Sd/-
Environmental Officer,
RO-Ramanagara

ANNEXURE-1

6.1 (ii) Status of STPs., I&D and sewerage networks

Name of the LBs	Status of STPs Existing infrastructure		Status of I&D works		Gap analysis	Sewerage works		Proposed along with completion timeline
	Existing	Proposed	Existing	Proposed		Existing	Proposed	
CMC-Ramanagara	7.5 MLD	2.5 MLD	Nil	11 drains carrying sullage effluent is to be connected to STPs. **No Work progress.**	4.0 MLD (Existing Sewage generation : 10.0 MLD & Existing inflow of sewage to STP-6.0 MLD)	60% of the area covered with UGD & further work in progress	DPR has been prepared and submitted to the Govt for the of laying of UGD network for the missing links.	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	6.29 MLD	Nil	Nil	5 drains carrying sullage effluent is to be connected to wet well/STPs. **No Work Progress.**	0.6 MLD (Existing Sewage generation : 4.4 MLD & Existing inflow of sewage to STP-3.8 MLD	80% of the area covered with UGD & further work in progress	DPR has been prepared and submitted to the Govt for the of laying of UGD network for the missing links.	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.

ANNEXURE-2

6.1 (iv) Status of Solid Waste Management & Details of Processing Facilities

Local Bodies	Types of Waste / Characteristic of waste	Generated Quantity/ day	Collection / Storage facility with capacity	Disposal/ Treatment facility with capacity along with location	Total Gap with generation & existing treatment facilities if any	Proposed action plan /facility to cover gap	Time limit	Remarks
CMC Ramanagara	Solid Waste	40.0 MTPD	35 MTPD	Land fill	25 MTPD	DPR is approved for processing entire MSW and work is in progress.	March 2021	Till establishment of complete processing facility all the LB are informed to dispose the existing solid waste in the land fill site identified. **As of now there is no progress.**
CMC Kanakapura	-do-	24.0 MTPD	20 MTPD	-do-	9.0 MTPD	DPR for the amount of Rs.7.59 crore has been prepared for comprehensive development of landfill.	31.12.2020	
	Total	**64.0 MTPD**	**55.0 MTPD**		**34.0 MTPD**			

ANNEXURE-3

6.1(v) Latest water quality of polluted river stretch

Year	Locations	DO (mg/L)	BOD(mg/L)	Fecal Coliform (MPN/100ml)	Total Coliform (MPN/100ml)
2020	Thippagondanahalli Reservoir (Aug-2020 result)	4.7	8.0	630	5400
	Manchanabele dam (June-2020 Result)	3.2	9.0	940	540 X 10^2
	Downstream of Ramanagara town (June-2020 Result)	3.8	21	-	5400
	Downstream of Kanakapura Town(May-2020)	5.6	5.0	48 x 10^2	350 x 10^2

Annexure-4

Status of Ground Water Resource Assessment

Pre Monsoon Samples of Ramanagara District of the Year 2020-21

Sl. No	Village	Well Type	Sampling Date	SO4	Fe	EC	pH	TDS	Na	HCO3	NO3	Ca	Mg	K	Cl	F	TH
1	Kailancha Village, Ramanagara Tq & District	Dug Well	5/27/2020	240	0.05	1700	7.38	1000	155	267	12	125	46	9	263	1.69	496
2	Ramanagara Town, Ramanagara Distrcit	Bore Well	5/27/2020	360	0.03	2020	7.26	1250	167	291	135	144	67	10	204	0.83	628
3	Harohalli, Village Kanakapura Taluk	Dug Well	5/22/2020	130	0.04	760	8.14	456	75	213	5	38	29	2	48	0.31	212
4	Kanakapura Town, Ramanagara District	Bore Well	5/22/2020	910	0.11	1500	7.67	910	99	338	90	101	68	0.5	143	0.81	524

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KARNATAKA STATE POLLUTION CONTROL BOARD

Name of the River : Krishna Asangi
Polluted river stretch : Along Asangi Barrage (33 KM)
Priority : V
Status as on : September 2020

Sl. No	Activity to be Monitored	Timeline	Submission of Progress by States/ UTs- Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31/03/2020	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.
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured.	31/03/2020	
2	Timeline for completing all STP's of action plan including completion of setting up STPs and their commissioning	31/03/2021	Enclosed as Annexure-I
3	Chief Secretaries may set up appropriate monitoring mechanism at state level	22/01/2020	----
	• Specifying accountability of Nodal authorities not below the secretary level		----
	• Chief Secretaries may have an accountable person attached in their office for this purpose	22/01/2020	----
	• Monitoring at State level must take place	Fortnightly commencing 21/12/2019	----
4	Progress report may be furnished by the States/ UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Noted and Complied.

4.1	Progress report may be comprised of details along with completion timelines on i. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment ii. <u>Status of STPs, I & D and sewage networks</u> Details of existing infrastructure, gap analysis, proposed along with the completion timeline iii. <u>Status of CETPs</u> Details of existing CETPs & ETP infrastructure, gap analysis, proposed along with the completion timeline, No. of industries and complying status iv. <u>Status of Solid Waste Management and details of processing facilities</u> Details of existing infrastructure, gap analysis, proposed along with the completion timeline v. Latest Water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted		Identification of polluting sources including drains contributing to river pollution. These already completely completed and submitted in the action plan. Details are enclosed Annexure-II. Enclosed as Annexure-I. CETP not applicable. ETP status enclosed as Annexure-III. Enclosed as Annexure-IV. Enclosed as Annexure-V.

	river vi. Preventing dumping of waste and scientific waste management including Bio-Medical Wastes, Plastic Wastes and De-centralizing waste processing, including waste generated from hotels, Ashramas, etc.		**Bio-Medical Waste:** There are total 118 No's of HCEs located in the limits of CMC, Rabakavi-Banahatti and TMC-Terdal and total Bio-Medical Waste generated is 0.61 TPD. Out of 0.61TPD of BMW generated about 7.5% i.e. 0.05TPD of Bio-Medical Waste is directly disposed through deep buried by Veterinary authorities in the area and remaining BMW of 0.56 TPD is handed over to Common Bio-Medical Waste Treatment facility for treatment and disposal. **Industrial Waste:** The total quantity of Hazardous Waste generated from the 07 industries located in the polluted river stretch is 0.019TPD and all the waste disposed as per the conditions mentioned in the Authorization issued under Hazardous Waste Management Rules, 2016. The details are Enclosed as Annexure-VI.
	vii. Ground water regulations		Letter addressed to the Senior Geologist, Ground Water Directorate, Bagalkot for compliance.
	viii. Adopting Good irrigation practices		Letter addressed to the Joint Director, Agriculture Department, Bagalkot for compliance.
	ix. Protection and management of Flood Plain Zones (FPZ)		Letter addressed to the DCF, Bagalkot, Karnataka Forest Department for compliance.
	x. Rain Water Harvesting		Letter addressed to the P.D, DUDC & PD, ZP, Bagalkot for compliance. Letter addressed to the Executive

	xi. Maintaining minimum environmental flow of river		Engineer, Krishna Bhagya Jala Nigam Ltd., Dam Zone, Almatti, Tq: Basavana Bagewadi, Dist: Vijayapura for compliance.
	xii. Plantations on both sides of the river		Letter addressed to the DCF, Bagalkot, Karnataka Forest Department for compliance.
	xiii. Setting up bio-diversity parks on flood plains by removing encroachment		Letter addressed to the DCF, Bagalkot, Karnataka Forest Department for compliance.

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Annexure-I

Municipal Sewage generation and Treatment

The Town wise sewage generation and treatment capacity developed so far is provided given as below
(Details obtained by KUWSSB, Bagalkot).

Name of the local body	Capacity of STP (MLD)	Preliminary Estimated Cost (cores)	Present status of STP	Target date of Completion
CMC, Rabakavi-Banahatti, Tq-Jamakhandi, Dist-Bagalkot	9.2	Commissioning is under progress	100% work completed	Commissioning is under progress
TMC-Terdal, Jamakhandi-Tq, Bagalkot-Dist.	0.75	Not estimated (Under Progress)	DPR under preparation.	DPR under preparation.

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Annexure-II

Sources including Nala/Drains joining to River – Krishna

Sl. No	Year	Locations	DO (mg/L)	BOD(mg/L)	Fecal Coliform (MPN/100ml)	Total Coliform (MPN/100ml)
1	2019-20	Asangi	Nil	23.1	1800	3200

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Annexure-III

Details of the industry located in the Krishna River basin:

Sl. No	Name of the Industry	Type of industry	Products				Distance from Krishna River Km
			Sugar TCD	Co-gen (MW)	Distillery(KLD)	Other	
01	M/s. Sovereign Sugar Industries Ltd., Terdal, Jamakhandi-Tq, Bagalkot-Dist	Sugar & Co-gen	3500	15	----	----	4.92
02.	**M/s. Sai Priya Sugars Ltd., Hipparagi-Mygur,** Jamakhandi-Tq, Bagalkot-Dist	Sugar & Co-gen	10000	65	----	----	5.0
03.	**M/s. Sai Priya Sugars Ltd(Distillery Division), Hipparagi-Mygur,** Jamakhandi-Tq, Bagalkot-Dist	**Distillery**	----	----	120	----	5.0
04.	**M/s. Jamakhandi Sugars Ltd., Hirepadasalagi,** Jamakhandi-Tq, Bagalkot-Dist	Sugar & Co-gen	5000	27	----	----	5.0
05.	**M/s. Jamakhandi Sugars Ltd(Distillery Division),, Hirepadasalagi,** Jamakhandi-Tq, Bagalkot-Dist	**Distillery**	----	----	60	----	5.0
06.	**M/s. Dempo Dairy Industries Ltd., Asangi,** Jamakhandi-Tq, Bagalkot-Dist	Dairy Industry			----	Milk Powder – 10 MT/day Ghee – 90 MT/Month Butter – 180 MT/Month	1.23

			----	----		S F M Bottles – 1 Lakh bottles per month Mysore Pak – 2.0 MT/Month Dharwad Peda – 3.0 MT/Month Badam Powder – 2 MT/Month Jamoon Mix – 3 MT/Month Khova – 3 MT/Month Shrikhand–4 MT/Month	
07.	**M/s. The Banhatti Co-Operative Spinning Mill Ltd , Sy No 14 & 94, Banahatti, Tq: Jamkhandi Dt: Bagalkot**	**Spinning Mill Industry**	----	----	----	Cotton spinning & mercerizing25,080 Spindles/Month	2.78

Water consumption and Effluent Generation by Industries:

Industrial Water Consumption	**Industrial Effluent generation**	**No. of Captive ETPs**	**Treatment Capacity (MLD)**	**Gap in Treatment (MLD)**
14.63 MLD	2.19 MLD	4 ETPs	2.75MLD	No Gaps in the treatment.

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Annexure-IV

5 (iv) 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)	23	23	6.09	16.91	—	31-12-2020	Vermi Composting	Rabakavi-Banahatti generate 23TPD of solid waste out of which 6.09 TPD of solid waste is composted & sold as manure and remaining 16.91TPD is dumped in landfill site
TMC, Terdal, Jamakhandi-Tq, Bagalkot-Dist	Domestic Waste (Mixed type)	13	13	0	13	—	31-12-2020	Vermi Composting	TMC, Terdal generate 13TPD of solid waste and no treatment & dumped in landfill site
Total		**36**	**36**	**6.09**	**29.91**				

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Annexure-V

Krishna River

Name of the River: Krishna River **Name of the Station:** Asangi Barrage.
Station No. 2763

Sl No.	Month/Parameters	**Jan-20**	**Feb-20**	**Mar-20**	**Apr-20**	**May-20**	**Jun-20**	**Jul-20**	**Aug-20**
1	Dissolved Oxygen	8.7	7	6.5	6	6.9	7	6.7	6.3
2	BOD	1.86	0.54	2.4	2.76	2.17	1.38	1.02	1.57
3	Total Coliforms	1600	900	1600	900	1600	900	1600	900
4	Fecal Coliforms	900	350	500	500	900	500	900	500
5	Fecal Streptococci	300	280	220	350	220	280	500	350
6	Conductivity	1064	946	900	886	892	960	348	268

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Annexure-VI

Sl NO	River	Sl. No.	Name of the Industry	Hazardous Waste Generation	Plastic Waste Generation (TPD or MTD)	Bio-Medical Waste Generation (TPD or MTD) & Total No. of Health care Centres
01	Krishna	1	M/s. Sovereign Sugar Industries Ltd., Terdal, Jamakhandi-Tq, Bagalkot-Dist	The authorities have not obtained the HWM authorization. They had operated the industry for 02 years during the 2017-18 and 2018-19 seasons and then closed and not in operation.	2 local bodies covered under krishna river strech pertaining to Regional Office, Bagalkot (CMC Rabakavi-Banahatti, TMC, Terdal) - Total Plastic Waste generation – 3.46 TPD	2 local bodies covered under krishna river strech pertaining to Regional Office, Bagalkot (CMC Rabakavi-Banahatti, TMC, Terdal) - Total No of HCE's 118. Total Bio-Medical Waste generation - 0.610 TPD
		2	M/s. Sai Priya Sugars Ltd., Hipparagi-Mygur, Jamakhandi-Tq, Bagalkot-Dist	As per authorization 1. Used Oil- 0.125KL/Annum 2. Oil Soaked cotton waste-0.025MTA 3. Oil filters-05 No's/Annum		
		3	M/s. Jamakhandi Sugars Ltd., Hirepadasalagi, Jamakhandi-Tq, Bagalkot-Dist	As per authorization 1. Used Oil- 0.9KL/Annum 2. Oil Soaked cotton waste-0.02MTA 3. Oil filters-04 No's/Annum		
		4	M/s. Dempo Dairy Industries Ltd., Asangi, Jamakhandi-Tq,	As per authorization 1. Used Oil- 0.4KL/Annum 2. Oil Soaked cotton waste-0.3MTA 3. Oil filters-20 No's/Annum		

Annexure-VI

			Bagalkot-Dist			
		5	M/s. The Banhatti Co-Operative Spinning Mill Ltd , Sy No 14 & 94, Banahatti, Tq: Jamkhandi Dt: Bagalkot	As per authorization Used Oil- 0.5KL/Annum		

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RO, KSPCB, BAGALKOT

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KARNATAKA STATE POLLUTION CONTROL BOARD

Name of the River : Bhadra
Polluted river stretch : Bhadravathi to Holehonnur
Priority : IV
Status as on : September 2020

Sl.No.	**Activity to be monitored**	**Timeline**	**Timeline Submission of Progress by State/UT-Compliance Status**
6.1	Progress report maybe comprised of the details along with completion timelines on:		
i.	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment		Polluting sources are identified and listed in river rejuvenation action plan and submitted to Board Office.
ii.	**Status of STPs, I&D and sewerage networks** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline	31th March 2021	STP of capacity 5.83 MLD at Jatpat Nagar, Bhadravathi and 7.2 MLD STP at Seegebagi, Bhadravathi are in Operational. Additional 1 MLD, SBR Technology at Ujjanipura and UGD Works are under progress.
iii.	**Status of CETPs** Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status	-	Not Applicable
iv.	Status of Solid Waste Management & Details of Processing Facilities Details of Existing Infrastructure, Gap Analysis, Proposed along		Total Solid Waste Generation from CMC Bhadravathi is 53.8 TPD. The CMC Bhadravathi is Collecting Solid waste from

	with completion timeline		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.
v.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		Samples are collected and Results also Submitted along with Action Plan. This Office is collecting the River Water Samples every month and results are enclosed.
vi.	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams, etc.		The Shivamoga District is having CBMWTF at Machenahalli industrial area. The BMW generated from Health Care Establishment are disposed to CBMWTF for further treatment. The Local Bodies are carrying out regular Plastic raids in Bhadravathi City. The CMC, Bhadravathi has started campaign for Pipe Composting and few houses have started the Pipe Composting.
vii.	Ground water regulation		District Ground Water Office has reported that Shivamogga Dist lies under safe zone (There is no over exploited Taluk)
viii.	Adopting good irrigation practices,		Adoptation of micro irrigation practices such as drip/sprinkler
ix.	Protection and management of Flood Plain Zones (FPZ),		Flood plain zone encroachment details sought by the Revenue Department
x.	Rain water harvesting		Shivamogga Urban Development Authority

			(SUDA) is insisting residential Buildings/ Commercial Buildings to adopt Rain Water Harvesting in its approval.
xi.	Maintaining minimum environmental flow of river		Karnataka Water Resources Department is the concern Department and it is maintaining the flow as per the Norms
xii.	Plantation on both sides of the river		The Deputy Commissioner informed the Forest Department Officers to take suitable action for plantation in flood plain zone.
xiii.	Setting up biodiversity parks on flood plains by removing encroachment		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.

ENVIRONMENTAL OFFICER
KSPCB,SHIVAMOGGA

National Mission for Clean Ganga
Format for Submission of monthly Progress report by states/UTs
(Hon'ble NGT in the matter of OA No.673/2018, Date: 06/12/2019)
KARNATAKA STATE POLLUTION CONTROL BOARD

Name of the River : Bhīma
Polluted river stretch : Ghanagapur to Yadgir (160 KM)
Priority : V
Status as on : September 2020

Sl.No.	Activity to be monitored	Timeline	Submission of Progress by State/UT-Compliance Status	Implementing Department
l	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	Proposed 1 STP of 3.25 MLD	TMC Jewargi
	commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	TMC Jewargi has submitted commitment letter stating that the UGD and STP will be operational in next one year time.	TMC Jewargi
2	Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning	31.03.2021	No further progress.	TMC Jewargi
5	Chief Secretaries may set up appropriate monitoring mechanism at State level Specifying accountability of nodal authorities not below the Secretary level • Chief Secretaries may have an accountable person attached in their office for this purpose.	22.01.2020 22.01.2020	-	-
	• Monitoring at State level must take place	Fortnightly Commencing 21.12.2019	-	-
6	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	-	-
6.1	Progress Report may be comprised of details along with completion timelines on:			-
i.	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment.		Drains/nala (5). Chinna Hagari near Kudlgi Village, drains joining at Nelogi, Harwal and Kattisangavi Villages in Kalaburagi and drain which carries sewage from Yadgir town.	TMC Jewargi
ii.	**Status of STPs. I&D and sewerage networks** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		No further progress.	TMC Jewargi

iii.	**Status of CETPs** Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status		Not Applicable	-
iv.	**Status of Solid Waste Management & Details of Processing Facilities** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		Solid waste generated from TMC Jewargi is 10MT/day, Dry waste – 4MT/day and Wet waste – 6MT/day. Dry waste from the TMC Jewargi 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.	TMC Jewargi
v.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		Inspection, Collection, analysis of river Bhima water sample monthly and report to CPCB, New Delhi. There is flow of sewage from Ghanagapur village into Bhima river, sample of sewage collected and analyzed. There are seasonal drains joining Bhima river in this stretch which are Chinna Hagari near Kudlgi Village, drains joining at Nelogi, Harwal and Kattisangavi Villages in Kalaburagi district jurisdiction. Ground water samples in the polluted river stretch have been collected and analyzed.	KSPCB
vi.	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizingwaste processing, including waste generated from hotels, ashrams, etc.		There is Common Bio Medical Waste Treatment Facilities (CBWTF) at Kalaburagi. The Bio-medical wastes generated has been collected and scientifically disposed through this CBWTF. Plastic has been segregated by the Local Body and sent to Cement industry for co-processing in cement kiln	TMC Jewargi
vii.	Ground water regulation		No progress. Perusing with concerned department	CGWA/ Karnataka Ground Water Department
viii.	Adopting good irrigation practices		No progress. Perusing with concerned department	Irrigation Department
ix.	Protectionand management of Flood Plain Zones (FPZ)		No progress. Perusing with concerned department	Karnataka State forest Department
x.	Rain water harvesting		No progress. Perusing with concerned department	CGWA/ Karnataka Ground Water Department & Water Resource Department
xi.	Maintaining minimum environmental flow of river		No progress. Perusing with concerned department	Water Resource Department
xii.	Plantation on both sides of the river		No progress. Perusing with concerned department	Karnataka State forest Department
xiii.	Setting up biodiversity parks on flood plains by removing encroachment		No progress. Perusing with concerned department	Karnataka State forest Department

National Mission for Clean Ganga
Format for Submission of monthly Progress report by states/UTs
(Hon'ble NGT in the matter of OA No.673/2018, Date: 06/12/2019)
KARNATAKA STATE POLLUTION CONTROL BOARD

Name of the River : Cauvery
Polluted river stretch : Muller to Sattegala Bridge (50 KM)
Priority : IV
Status as on : September 2020

Sl. No.	Activity to be monitored	Timeline	Submission of Progress State/UT-Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	Action has been initiated by UDD, GoK to train the 35 ULBs on in-situ treatment, viz. phytoremediation and wet-land treatment.
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	KUWS&DB: Project proposal for the commencement of setting up of STPs at an estimated cost of ₹1690 crores has been submitted to GoK for approval. ₹100 crore provision has been made for 2020-21 budget.
2	Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning	31.03.2021	KUWS&DB: 24 months from the date of handing over of the required land from the ULBs for STP construction and I&D works
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary level	22.01.2020	State level River Rejuvenation Committee (RRC) is constituted by GoK on 24/11/2018 under the Chairmanship of Principal Secretary to Government (Ecology and Environment). MS, KSPCB; Director, DIC and Director, DMA are the members of the committee. A monitoring cell is directly working under the Chief Secretary's Office, since 18/03/2020.
	• Chief Secretaries may have an accountable person attached in their office for this purpose.	22.01.2020	
	• Monitoring at State level must take place	Fortnightly Commencing 21- 12-	4th RRC meeting was held on 11/03/2020 under the Chairmanship of The Principal Secretary to Government (Ecology and Environment).

		2019	Regular meetings will be conducted to review the progress.
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20° of every month)	Progress report for the period up to August 2020 is as submitted.
6.1	Progress Report may be comprised of details along with completion timelines on:		
(i)	**Identification of polluting sources** including drains contributing to river pollution and action as per NGT order on insitu treatment		Total 18 number of drains are identified and monitored along PRS from **Rangathittu to Satthegala Bridge.** The sullage effluent is having BOD & TC count in excess of the standards. **TMC Srirangapatna :** 3 drains is identified & monitored. The said drains are to be connected to STPs. 5 drains is identified & monitored. **TMC Bannur** : 1 natural drains leading to River is identified & monitored. The River sample is having BOD & TC count within the standards. **TMC Narasipura** : 5 drains is identified & monitored. The said drains are provided with Micro STPs on the banks of the river to remove the organic matter deposited in the Micro STPs de-silting works are yet to be under taken & steps are required to be taken to divert the sewage in to the nearby wet well located near KSRTC Bus stand. **GP Mullur**: 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. **GP Harale (Dasanapura & Harle Village):** 5 drains is identified & monitored. ZP Chamarajanagar has earmarked an amount of Rs. 115.0 Lakhs for providing Common Sewage collection tank & Common septic tank and soak pit. **CMC Kollegala**: 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 progress. **GP Satthegala (Yedkuri Village):** 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.

(ii) **Status of STPs.I&D and sewerage networks :** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline

TMC Srirangapatna

Existing infrastructure: 3.6 MLD

Gap: Nil

Proposed : 1.4 MLD

Proposed along with Completion Timeline : 31-03-2021 DPR for Rs. 40.80 Crores is submitted for approval to Govt.

Status of I&D works :

Existing	Proposed
Nil	3 drains carrying sullage effluent is to be connected to STPs. **No Work Progress**

Status of Sewerage works:

Existing	Proposed
70% of the area covered with UGD & further work in progress	House to house connection to sewer networks is yet to be undertaken

Present Status : Provided 3.6 MLD STP for the treatment of 2.70 MLD sewage effluent & the said STP is put in to operations. Proposed to provide 1.4 MLD for connecting missing link is yet to be taken up.

TMC Bannur

Existing infrastructure: 3.31 MLD

Gap: Nil

Proposed : Nil

Proposed along with Completion Timeline : 31-03-2021

Status of I&D works :

Existing	Proposed
Nil	Nil

Status of Sewerage works:

Existing	Proposed
70% of the area covered with UGD & further work in progress	House to house connection to sewer networks is yet to be undertaken

Present Status: Provided 3.31 MLD STP for the treatment of 2.36 MLD sewage effluent & the said STP is put in to operations. Sewer network for the entire town is completed & the

house to house connection is yet to be undertaken

TMC Narasipura
Existing infrastructure: 5.5 MLD
Gap: 2.13 MLD
Proposed : Nil
Proposed along with Completion Timeline : 31-03-2021
Status of I&D works :

Existing	Proposed
Nil	4 drains carrying sullage effluent is to be connected to wet well before Micro STP. **No Work Progress.**

Status of Sewerage works:

Existing	Proposed
60% of the area covered with UGD & further work in progress	House to house connection to sewer networks is yet to be undertaken

Present Status : Provided 5.5 MLD STP for the treatment of 3.8 MLD sewage effluent & the said STP is yet to be operated. Sewer network for the entire town is completed & the house to house connection is yet to be undertaken. Storm water drains carrying sullage effluent in to cauvery River is provided with Micro STP & the same is yet to be de-silted Work of diverting the sullage in to nearby wet well from the storm water drains is yet to be undertaken. The works will be completed by March 2021.

GP Mullur
Existing infrastructure: Nil
Gap: 0.28 MLD
Proposed : Nil
Proposed along with Completion Timeline : 31-03-2021
Status of I&D works :

Existing	Proposed
Nil	Proposed to provided Common Sewage collection tank & Septic tank and soak pit. **No Work Progress.**

Status of Sewerage works:

Existing	Proposed

At present the sewage from individual houses are disposed off in to septic tank and soak pit.	Proposed to provided Common Sewage collection tank & Septic tank and soak pit		

Present Status: At present sewage effluent is disposed off in to individual septic tank and soak pit. Zilla Panchayath Chamarajanagar has approved budget allocation of Rs. 3.0 Lakhs to construction of Sewage effluent collection tank for the drains leading to Cauvery river & to provide common Septic tank and soak pit. The works will be completed by March 2021.

Harale GP (Harale + Dasanapura Village)

Existing infrastructure: Nil
Gap: 0.18 MLD
Proposed : Nil
Proposed along with Completion Timeline : 31-03-2021

Status of I&D works :

Existing	Proposed
Nil	Proposed to provided Common Sewage collection tank & Septic tank and soak pit. **No Work Progress.**

Status of Sewerage works:

Existing	Proposed
At present the sewage from individual houses are disposed off in to septic tank and soak pit.	Proposed to provided Common Sewage collection tank & Septic tank and soak pit

Present Status: At present sewage effluent is disposed off in to individual septic tank and soak pit. Zilla Panchayath Chamarajanagar has approved budget allocation of Rs. 115000 to construction of Sewage effluent collection tank for the drains leading to Cauvery river & to provide common Septic tank and soak pit for Dasanapura & Harale Village. The works will be completed by March 2021.

CMC Kollegala

Existing infrastructure: 3.3 MLD
Gap: Nil
Proposed : 5.57 MLD

Proposed along with Completion Timeline : 31-03-2021

Status of I&D works :

Existing	Proposed
Nil	Laying UGD network is in progress & after completion of the same sewage discharge in to storm water drain is avoided. **Work is in progress.**

Status of Sewerage works:

Existing	Proposed
80% of UGD network covered	Work of laying UGD network for remaining area is under progress

Present Status: Provided 9.0 MLD STP for the treatment of 6.19 MLD sewage effluent & the said STP is under trial operation. Sewer network for the entire town is completed @ 98% & the house hold connection 14 Wards completed & for remaining 17 Wards is yet to be connected & the works is in progress.

Yedkuri Village (GP Satthegala)

Existing infrastructure: Nil

Gap: 0.01 MLD

Proposed : Nil

Proposed along with Completion Timeline : 31-03-2021

Status of I&D works :

Existing	Proposed
Nil	Proposed to provided Common Sewage collection tank & Septic tank and soak pit. **No Work Progress.**

Status of Sewerage works:

Existing	Proposed
At present the sewage from individual houses are disposed off in to septic tank and soak pit.	Proposed to provided Common Sewage collection tank & Septic tank and soak pit

Present Status: At present sewage effluent is disposed off in to individual septic tank and soak pit. Zilla Panchayath Chamarajanagar has approved budget allocation of Rs. 2.0 Lakhs to construction of Sewage effluent collection tank for the drains leading to Cauvery river & to provide common Septic tank and soak pit. The works will be completed by March 2021.

			The Status of STPs, I&D and Sewerage Networks is shown in <u>Annexure-1</u>
(iii)	**<u>Status of CETPs</u>** Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status		a) There are no CETP in the jurisdiction of PRS Rangathittu to Satthegala Bridge b) There are no major industrial estates in the polluted river stretch except KSSIDC Industrial estate in Srirangapatana which is having 10 small scale industries not significant from water pollution pint of view. However, the sewage & sullage effluents from the industrial estates is disposed off in to common septic tank and soak pit and the TMC Srirangapatana has proposed to provide UGD network to the industrial also in the proposed action plan. However, there are 2 Large Orange and Green Category industries along with small rice mills and hotels / resorts located on the river bank of Cauvery near Srirangapatna and the said industries are treating the sewage and trade effluents in their own captive treatment facilities and there is no discharge of either sewage / trade effluent from the industries in the river stretch. Since, the KSPCB is not allowing any industries to discharge sewage and trade effluent in to the river.
(iv)	**<u>Status of Solid Waste Management</u>** <u>& Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		There are 4 numbers of local bodies i.e. TMC Srirangapatna, TMC T. Narasipura, TMC Bannur and CMC Kollegala generating total solid waste 51.07 TPD and exhibits the gap of 46.4 TPD with generation & existing treatment facilities. The solid waste generation from Gram panchayaths of kollegala taluk i.e. GP Mulluru, GP Harale (Dasanapura & Harle Village) and GP Satthegala (Yedkuri Village) is generating total solid waste 1.9 TPD and exhibits the gap of 1.9 TPD with generation & existing treatment facilities. At present Traditional Pit method is practiced by the individual houses. Therefore the total solid waste generation is 52.97TPD and exhibits the gap of 48.3TPD with generation & existing treatment facilities. **<u>Status of Solid Waste Management & Details of Processing Facilities is shown in Annexure-2</u>**
(v)	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		**<u>6.1(v) Latest water quality of polluted river stretch for the month of August 2020 in Annexure-3</u>**
(vi)	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing,		**<u>Bio Medical Waste</u>**: The HCEs located on polluted river stretch are collecting & disposing the BMW to the operator of CBMWTF & the non bedded HCEs i.e., Veterinary institutions the same through deep burial / sharp pits. Implementation of Bar code practice and to ensure proper collection & disposal of BMW to operator of CBMWTF from the entire HCEs

	including waste generated from hotels, ashrams, etc.		**Plastic Wastes** As per State Government Order complete ban of use of Plastic carry bags of irrespective size & thickness is enforced in all the polluted river stretch by the respective LBs and GPs. There are no Plastic bags manufacturing industries in the polluted river stretch and also there are no producers, brand owners and plastic waste recycling industries in the polluted river stretch. However, the LBs have submitted action plan for collection and disposal of plastic wastes from Dry waste collection centres in to the respective recyclers and also explore the possibilities of disposing un-recycled plastics including compost rejects to cement kilns. Action plan is submitted to implement the same by March 2021.
(vii)	Ground water regulation		CMC Kollegala : As per the details submitted by Sr. Geologist, District Ground Water Authority, Chamarajanagar 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 fulfil 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-4**
(viii)	Adopting good irrigation practices,		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. (iii). As per the details submitted by Kaveri Neeravari Nigama 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 Canals is proposed and estimate submitted for sanction, approval awaited.
(ix)	Protection and management of Flood Plain Zones(FPZ),		The Department of Revenue and Irrigation have prepared District Disaster Management Plan for the Flood Plains of river Cauvery which is also covered under polluted river stretch. As per the management plan it is noticed that if the discharge is more than 1,50,000 Lakh cusecs from Kabini and KRS Dam the villages located on the banks on the river Cauvery are flooded. In order to overcome these issues people of these 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 by

			March 2021. As per the details submitted by Kaveri Neeravari Nigama, Kollegala for the month of August 2020, as such no water logging issue noticed so far in the command area of Cauvery river. But during flood same is noticed. Awareness programmes are carried out for farmers to practice the best irrigation system. During flood time flood warning messages is informed to district administration.
(x)	Rain water harvesting,		As per the details submitted by Sr. Geologist, District Ground Water Authority, Chamarajanagar 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.
(xi)	Maintaining minimum environmental 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
(xii)	Plantation on both sides of the river		The Forest Department has planted around 1.5 lakhs saplings in T.Narasipura in an area of 100 Hectares and **annual maintenance of plantation for the first year is in progress** and there is no progress in the remaining areas. 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.
(xiii)	Setting up biodiversity park on flood plains by removing encroachment		As of now, there is one Bird Sanctuary in Ranganatittu and Gendehosalli in Cauvery river stretch of Srirangapatna Taluk. The Forest Department is requested to submit action plan for the proposed bio diversity parks and the same is yet to be submitted.

Sd/-
Senior Environment Officer,
ZO, Mysuru

ANNEXURE-1

6.1 (ii) Status of STPs., I&D and sewerage networks

Name of the LBs	Status of STPs Existing infrastructure		Status of I&D works		Gap analysis	Sewerage works		Proposed along with completion timeline
	Existing	Proposed	Existing	Proposed		Existing	Proposed	
TMC Srirangapatna	3.6 MLD	1.4 MLD	Nil	3 drains carrying sullage effluent is to be connected to STPs. **No Work Progress.**	Nil	70% of the area covered with UGD & further work in progress	House to house connection to sewer networks is yet to be undertaken	31-03-2021 DPR for Rs. 40.80 Crores is submitted for approval to Govt.
TMC, T Narasipura	5.5 MLD	Nil	Nil	4 drains carrying sullage effluent is to be connected to wet well before Micro STP. **No Work Progress.**	2.13	60% of the area covered with UGD & further work in progress	House to house connection to sewer networks is yet to be undertaken	31-03-2021.
TMC, Bannur	3.31 MLD	Nil	Nil	Nil	Nil	70% of the area covered with UGD & further work in progress	House to house connection to sewer networks is under progress	31-03-2021
GP, Mulluru	Nil	Nil	Nil	Proposed to provided Common Sewage collection tank & Septic tank and soak pit. **No Work Progress.**	0.28 MLD	At present the sewage from individual houses are disposed off in to septic tank and soak pit.	Proposed to provided Common Sewage collection tank & Septic tank and soak pit	31-03-2021
Harale GP (Harale + Dasanapura Village)	Nil	Nil	Nil	Proposed to provided Common Sewage	0.18 MLD	At present the sewage from individual houses are disposed off in	Proposed to provided Common Sewage collection tank & Septic tank and soak pit	31-03-2021

				collection tank & Septic tank and soak pit. **No Work Progress.**		to septic tank and soak pit.		
CMC, Kollegala	3.3	5.57	Nil	Laying UGD network is in progress & after completion of the same sewage discharge in to storm water drain is avoided. **Work is in progress.**	Nil	80% of UGD network covered	Work of laying UGD network for remaining area is under progress	31-03-2021
Yedkuri Village (GP Satthegala)	Nil	Nil	Nil	Proposed to provided Common Sewage collection tank & Septic tank and soak pit. **No Work Progress.**	0.01 MLD	At present the sewage from individual houses are disposed off in to septic tank and soak pit.	Proposed to provided Common Sewage collection tank & Septic tank and soak pit	31-03-2021

ANNEXURE-2

6.1 (iv) Status of Solid Waste Management & Details of Processing Facilities

Local Bodies	Types of Waste / Characteristic of waste	Generated Quantity/ day	Collection / Storage facility with capacity	Disposal/ Treatment facility with capacity along with location	Total Gap with generation & existing treatment facilities if any	Proposed action plan /facility to cover gap	Time limit	Remarks
TMC Srirangapatna	Domestic Solid Waste	11.17	12	Land fill	9.7	DPR is approved for processing entire MSW and work is in progress.	March 2021	Till establishment of complete processing facility all the LB are informed to dispose the existing solid waste in the land fill site identified. **As of now there is no progress.**
TMC, T Narasipura	-do-	10	11	-do-	9.0	-do-	-do-	
TMC, Bannur	-do-	8.9	9	-do-	7.7	-do-	-do-	
GP Mulluru	-do-	1.2	--	Traditional Pit method is practiced by the individual house	1.2	DPR to be prepared	-do-	
GP Harale (Harale+Dasanapura Village)	-do-	0.6	--	Traditional Pit method is practiced by the individual house	0.6	DPR to be prepared	-do-	
CMC , Kollegala	-do-	21.0	30	Land fill	20.0	DPR is approved for processing entire MSW and work is in progress.	-do-	
Yedkuri Village (GP Sattegala)	-do-	0.1	--	Traditional Pit method is practiced by the individual house	0.1	DPR to be prepared	-do-	
	Total	**52.97**	**62**		**48.3**			

ANNEXURE-3

6.1(v) Latest water quality of polluted river stretch for the month of August 2020

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 Cauvery in Ranganathittu Bird sanctuary, SR Patna Taluk, Mandya District	**Aug-2020**	**7.0**	**1.5**	**200**	**1400**
2	D/s of left bank of river Cauvery in Mandya Water Supply Intake Point near SR Patna Taluk, Mandya District	**Aug- 2020**	**7.1**	**1.2**	**320**	**1200**
3	D/s of right bank of river Cauvery in Srirangapatna Water Supply Intake Point near Wellesly Bridge TMC SR Patna, Mandya District	**Aug-2020**	**7.2**	**1.2**	**260**	**1100**
4	D/S of river Cauvery in Mysore-Bangalore Road Bridge of TMC Srirangapatna, Mandya District	**Aug-2020**	**7.0**	**1.4**	**380**	**1500**
5	D/S of river Cauvery Bannur TMC Water supply intake point near Mysore- Bannur Road bridge, T.Narasipura Taluk, Mysore District	**Aug-2020**	**7.2**	**1.2**	**170**	**1100**
6	D/S of river Cauvery near Mullur Village, Kollegala Taluk, Chamarajanagar District	**Aug-2020**	**7.4**	**1.1**	**250**	**840**
7	D/S of Cauvery river near Dasanapura Village, Kollegala Taluk, Chamarajanagar District	**Aug-2020**	**7.4**	**1.2**	**380**	**1200**
8	D/S of Cauvery river near Sathegala Bridge,Kollegala Taluk, Chamarajanagar District	**Aug-2020**	**7.4**	**1.1**	**490**	**1300**

ANNEXURE-4

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
Mandya	Srirangpatna	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 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.						

National Mission for Clean Ganga
Format for Submission of monthly Progress report by states/UTs
(Hon'ble NGT in the matter of OA No.673/2018, Date: 06/12/2019)
KARNATAKA STATE POLLUTION CONTROL BOARD

Name of the River : Kabini
Polluted river stretch : Nanjanagud to Hejjige Village (9 KM)
Priority : IV
Status as on : September 2020

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by Local Bodies- Compliance Status for the month of July 2020
			CMC Nanjangud
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2021	Action has been initiated by UDD, GoK to train the 35 ULBs on in-situ treatment, viz. phytoremediation and wet-land treatment.
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2021	KUWS&DB: Project proposal for the commencement of setting up of STPs at an estimated cost of ₹1690 crores has been submitted to GoK for approval. ₹100 crore provision has been made for 2020-21 budget.
2	Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning	31.03.2021	KUWS&DB: 24 months from the date of handing over of the required land from the ULBs for STP construction and I&D works
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary level	22.01.2020	State level River Rejuvenation Committee (RRC) is constituted by GoK on 24/11/2018 under the Chairmanship of Principal Secretary to Government (Ecology and Environment). MS, KSPCB; Director, DIC and Director, DMA are the members of the committee. A monitoring cell is directly working under the Chief Secretary's Office, since 18/03/2020.

<table>
<tr><td></td><td>• Chief Secretaries may have an accountable person attached in their office for this purpose.</td><td>22.01.2020</td><td></td></tr>
<tr><td></td><td>• Monitoring at State level must take place</td><td>Fortnightly Commencing 21,12.2019</td><td>4th RRC meeting was held on 11/03/2020 under the Chairmanship of The Principal Secretary to Government (Ecology and Environment). Regular meetings will be conducted to review the progress</td></tr>
<tr><td>4</td><td>Progress report may be furnished by the States/UTs to
• Secretary, Ministry of Jal Shakti
• Member Secretary, CPCB</td><td>Monthly (preferably before 20° of every month)</td><td>Progress report for the period up to August 2020 is as submitted.</td></tr>
<tr><td>6.1</td><td>Progress Report may be comprised of details along with completion timelines on:
(i) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment</td><td></td><td>6 drains are identified & monitored. The sullage effluent is having BOD & TC count in excess of the standards.
Out of 6 drains 1 drain leading to Gundlu River is connected to Wetwell and pumping the same to STP for further treatment and disposal. Remaining 5 drains there is no progress.</td></tr>
<tr><td></td><td>(ii) <u>Status of STPs.I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline</td><td colspan="2">CMC Nanjangud
Existing infrastructure: 7.0 MLD
Gap: Nil
Proposed : 1.72 MLD
Proposed along with Completion Timeline : 31-03-2021 DPR for Rs. 36.86 Crores is submitted for approval to Govt.
<u>Status of I&D works</u> :<table><tr><td>Existing</td><td>Proposed</td></tr><tr><td>Nil</td><td>Out of 6 drains 1 drain leading to Gundlu River is connected to Wetwell and pumping the same to STP for further treatment and disposal. Remaining 5 drains there is no progress
No Work Progress</td></tr></table><u>Status of Sewerage works</u>:</td></tr>
</table>

		<table><tr><td>Existing</td><td>Proposed</td></tr><tr><td>70% of the area covered with UGD & further work in progress</td><td>House to house connection to sewer networks is yet to be undertaken</td></tr></table> **Present Status :** Provided 7.0 MLD STP for the treatment of 5.46 MLD sewage effluent & the said STP is put in to operations for the treatment of 2.0 MLD sewage generated from the town limit. Proposed to provide 3.46 MLD for connecting missing link is yet to be taken up. Storm water drains carrying sullage effluent in to Kabini River & the same is yet to be diverting the sullage in to nearby wet well from the storm water drains is yet to be undertaken. **The works will be completed within two years after approval of DPR as per the details submitted by Chief Engineer, KUWSDB, Mysuru Zone, Mysuru.** The Status of STPs, I&D and Sewerage Networks is shown in **Annexure-1**
	(iii) Status of CETPs Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status	There are no CETPs in the polluted river stretch. There are 39 industries in this stretch and these industries are treating the sewage & trade effluent in their own captive sewage treatment and effluent treatment plants.
	(iv) Status of Solid Waste Management & Details of Processing Facilities Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline	Out of 24.0 TPD of Solid Waste 2.0 TPD is converted to compost and remaining 24.0 TPD is dumped in the pit of SWM Site. There is no progress towards construction of dedicated compost plant and sanitary land fill site. Status of Solid Waste Management & Details of Processing Facilities is shown in **Annexure-2**
	(iv) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;	**6.1(v) Latest water quality of polluted river stretch for the month of August 2020 in Annexure-3**

	(v) Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams, etc.	**Bio Medical Waste**: The HCEs located on polluted river stretch are collecting & disposing the BMW to the operator of CBMWTF & the non bedded HCEs i.e., Veterinary institutions the same through deep burial / sharp pits. Implementation of Bar code practice and to ensure proper collection & disposal of BMW to operator of CBMWTF from the entire HCEs. There are 85 HCEs in this stretch generating 0.0152 TPD of Bio Medical Waste which is being disposed off in to operator of CBMWTF. **Plastic Wastes** As per State Government Order complete ban of use of Plastic carry bags of irrespective size & thickness is enforced in all the polluted river stretch by the respective LBs and GPs. There are no Plastic bags manufacturing industries in the polluted river stretch and also there are no producers, brand owners and plastic waste recycling industries in the polluted river stretch. Plastic Wastes are collected in dry waste collection centers and the same is disposed to registered recyclers. Action is being initiated by the LBs for collection and disposal of solid wastes generating from Hotels located on Polluted river stretch.
	(vi) Ground water regulation	CMC Nanjangud comes under safer zone as per ground water resources assessment and there is no over exploitation of ground water in the region. **Status of Ground Water Resource Assessment in Annexure-4**
	(vii) Adopting good irrigation practices,	The agricultural lands located in Kabini Command Area have adopted good irrigation practice.
	(viii) Protection and management of Flood Plain Zones(FPZ),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 .
	(ix) Maintaining minimum environmental flow of river	The Cauvery Neeravari Nigagam Ltd., is requested to submit the action plan as per MoEF & CC norms during monsoon seasons & the same is yet to be submitted
	(x) Plantation on both sides of the river	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. Hence, the Forest Department is requested to submit action plan for plantation on the river bank. This will be complied within time frame of March 2021.
	(xi) Setting up biodiversity parkson floodplains by removing encroachment	As of now, there are no Bio diversity parks in this stretch

Environment Officer,
Regional Office-2, Mysuru Rural

Annexure- 1

6.1(ii) Status of STPs.I&D and sewerage networks

Name of the LBs	Status of STPs Existing infrastructure		Status of I&D works		Gap analysis	Sewerage works		Proposed along with completion timeline
	Existing	Proposed	Existing	Proposed		Existing	Proposed	
CMC Nanjangud	7.0 MLD (Around 2.0 MLD Sewage is pumped to STP through wetwell)	1.72 MLD upgradation of 7.0 MLD WSP type STP to 7.00 MLD SBT type STP.	Nil	Out of 6 drains 1 drain leading to Gundlu River is connected to Wetwell and pumping the same to STP for further treatment and disposal. Remaining 5 drains there is no progress	Nil	70% of the area covered with UGD & further work in progress	Balance 30% with HSC will be covered	31-03-2021 DPR for Rs. 36.86 Crores is submitted for approval to Govt.

Annexure- 2

6.1 (iv) Status of Solid Waste Management & Details of Processing Facilities

Local Bodies	Types of Waste / Characteristic of waste	Generated Quantity/ day	Collection / Storage facility with capacity	Disposal/ Treatment facility with capacity along with location	Total Gap with generation & existing treatment facilities if any	Proposed action plan /facility to cover gap	Time limit	Remarks
CMC, Nanjangud	Domestic	26 TPD	24 TPD Total Area – 7.20 Acres	Composting Method–**2 TPD** At Survey/Plot No. 187, Veeradevapanpura, Nanjangudu Taluk	24 TPD	March 2021	March 2021	Construction of dedicated compost plant and sanitary land fill site Yet to be undertaken

Annexure- 3

6.1 (iv)Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river

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	**AUG -20**	**7.3**	**1.3**	**110**	**940**
2	D/S of Kabini from KIADB W/s Intake Point Kallahalli	**AUG -20**	**7.5**	**1.2**	**130**	**840**
3	D/s of Kabini near Bathing Ghat, Nanjangud	**AUG -20**	**7.3**	**1.2**	**340**	**1300**

ANNEXURE-4

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
Mysuru	Nanjangud	10658	4762	5896	45.00	***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.						

Environment Officer,
Regional Office-2, Mysuru Rural

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KARNATAKA STATE POLLUTION CONTROL BOARD

Name of the River : Kagina
Polluted river stretch : Shahabad to Hongunta (10 KM)
Priority : IV
Status as on : September 2020

Sl.No.	Activity to be monitored	Timeline	Submission of Progress by State/UT-Compliance Status	Implementing Department
l	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	Proposed 1 STP of 13.5 MLD	CMC Shahabad
	commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	CMC Shahabad has submitted commitment letter stating that the UGD and STP will be operational in next one year time. They have submitted that about 55% of UGD work has been completed.	CMC Shahabad
2	Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning	31.03.2021	For Shahabad Fecal Sludge Treatment Plant(FSTP) has been sanctioned by Government and hence UGD and STP work is kept pending. Identification of consultant for preparing DPR of FSTP is in progress.	CMC Shahabad
5	Chief Secretaries may set up appropriate monitoring mechanism at State level Specifying accountability of nodal authorities not below the Secretary level • Chief Secretaries may have an accountable person attached in their office for this purpose.	22.01.2020 22.01.2020	-	-
	• Monitoring at State level must take place	Fortnightly Commencing 21.12.2019	-	-
6	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Submitted to Head Office, KSPCB upto August-2020	-
6.1	Progress Report may be comprised of details along with completion timelines on:			-
i.	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment.		Drains/nala (1) Drain joining Kagina near Railway Bride at Gola Village	CMC Shahabad

ii.	**Status of STPs. I&D and sewerage networks** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		No further progress. For Shahabad Fecal Sludge Treatment Plant(FSTP) has been sanctioned by Government and hence UGD and STP work is kept pending. Identification of consultant for preparing DPR of FSTP is in progress.	CMC Shahabad
iii.	**Status of CETPs** Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status		Not Applicable	-
iv.	**Status of Solid Waste Management & Details of Processing Facilities** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		Solid waste generated from CMC Shahabad is 17.44MT/day, Dry waste – 11MT/day and Wet waste – 5.44MT/day. 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/ authorized solid waste processing site.	CMC Shahabad
v.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		Inspection, Collection, analysis of river Kagina water sample monthly and report to CPCB, New Delhi. Drain joining Kagina near Railway Bride at Gola Village is non perennial stream and is seasonal in nature. Ground water samples in the polluted river stretch have been collected and analyzed.	KSPCB
vi.	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams, etc.		There is Common Bio Medical Waste Treatment Facilities (CBWTF) at Kalaburagi. The Bio-medical wastes generated has been collected and scientifically disposed through this CBWTF. Plastic has been segregated by the Local Body and sent to Cement industry for co-processing in cement kiln	CMC Shahabad
vii.	Ground water regulation		No progress. Perusing with concerned department	CGWA/ Karnataka Ground Water Department
viii.	Adopting good irrigation practices,		No progress. Perusing with concerned department	Irrigation Department
ix.	Plantation, Protection and management of Flood Plain Zones (FPZ)		No progress. Perusing with concerned department	Karnataka State forest Department
x.	Rain water harvesting		No progress. Perusing with concerned department	CGWA/ Karnataka Ground Water Department & Water Resource Department
xi.	Maintaining minimum environmental flow of river		No progress. Perusing with concerned department	Water Resource Department
xii.	Plantation on both sides of the river		No progress. Perusing with concerned department	Karnataka State forest Department

xiii.	Setting up biodiversity parks on flood plains by removing encroachment		No progress. Perusing with concerned department	Karnataka State forest Department

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KARNATAKA STATE POLLUTION CONTROL BOARD

Name of the River : Kali
Polluted river stretch : Hasan Maad (west coast paper mill) to Bomanahalli (10 KM)
Priority : IV
Status as on : September 2020

Sl.No.	Activity to be monitored	Timeline	Submission of Progress by State/UT-Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	Before 31.03.2023.	Quantity of total Sewage generation-14.7MLD (CMC-Dandeli:8.5MLD + M/s. West Coast Paper Mills Ltd:6.2MLD) Quantity of total Sewage Treated- 6.2. M/s. West Coast Paper Mills Ltd., is having 100% STP facility , whereas, Dandeli CMC STP and UGD work is under progress.
	commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	Before 31.03.2023.	Dandeli CMC- UGD laying and STP work is under progress, the CMC-Dandeli has committed to complete the work in two years.
2	Timelineforcompletingallsteps of action plans including completionofsettingup STPs and theircommissioning	Before 31.03.2023.	CMC-Dandeli has committed to complete the work in two years.
5	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountabi)ity of nodal authorities not below the Secretarylevel • ChiefSecretariesmayhave an accountable person attachedintheirofficefor this purpose.	22.01.2020 22.01.2020	-------- --------
	• MonitoringatStatelevel must takeplace	Fortnightly Commencing 21,12.2019	--------

6	Progress report may be furnished by the States/UTs to • Secretary,MinistryofJal Shakti • Member Secretary, CPCB	Monthly (preferably before 20° of every month)	Meeting conducted on 31/07/2020 and work progress is reviewed by Deputy Commissioner Karwar (Proceeding copy attached)

6.1	Progress Report may be comprised of details along with completion timelines on: (i) Identification of polluting sources including drainscontributing to river pollution and action as perNGTorderoninsitu treatment. (ii) Statusof STPs.I&D and sewerage networks Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline (iii) Status ofCETPs Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industriesand complyingstatus (iv) **Status of Solid WasteManagement &Detailsof ProcessingFacilities** (iv) Details of Existing Infrastructure, GapAnalysis, Proposed along with completion timeline. (v). Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		(i).Polluting sources are identified and listed in river rejuvenation action plan and submitted and was discussed in "District Level Special Environmental Surveillance Task Force" meeting held on 31/07/2020. (ii). Quantity of total Sewage generation- 14.7MLD (CMC-Dandeli:8.5MLD + M/s. West Coast Paper Mills Ltd:6.2MLD) Quantity of total Sewage Treated- 6.2. M/s. West Coast Paper Mills Ltd., is having 100% STP facility, whereas, Dandeli CMC STP work is under progress. Not applicable (iv). Solid waste generation is about 18 MT/Day. 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. Construction of sanitary landfill site is under progress. (Vi). Attached as **Annexure-1**

	(vi).Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams, etc.		(VI) Deputy Commissioner directed inline departments to address the illegal disposal of municipal, plastic and bio medical waste particularly in drains and take action against the violators.
	(vii). Ground water regulation		(vii). The authority of District Ground Water Department informed that there are no critical blocks in the district.
	(viii) Adopting good irrigation practices		viii). Farmers are practiceing micro irrigation technologies as a part of good irrigation practices.
	(ix). Protection and management of Flood Plain Zones(FPZ),		(ix) Department of forest has submitted DPR for protection and management of flood plain zone.
	(x). Rain water harvesting,		(x) Directions given to agricultural/irrigation department to organize awareness programmes in farmers to conserve water and good irrigation practices to be adopted.
	(xi)Maintaining minimum environmental flow of river		(xi) Directions given to M/s. KPC Ltd., for maintaining minimum environmental flow of river. Monthly Average Data for the year 2020 is attached as **Annexure-2**
	(xii). Plantation on both sides of the river		(xii) Department of Forest has submitted DPR for protection and management of flood plain zone.
	(xiii). Setting up biodiversity parks on floodplains by removing encroachment		(xiii) Area comes under reserved forest and action will be taken Concern Department (forest department).

ENVIRONMENTAL OFFICER
KSPCB, RO, KARWAR

Annexure-1

River Kali-Analysis report of water sample collected from Kali River under MINARS programme(Jan-2020 to June-2020)

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'20	7.2	7.8	2.6	75	345	21	7.1	7.6	2.9	79	348	25
Feb'20	6.7	7.8	2.3	122	410	19	6.9	7.6	2.6	131	440	24
Mar'20	6.8	7.6	2.5	111	432	21	7.1	7.5	2.7	131	473	18
Apr'20	7.1	7.6	2.2	107	415	16	7.2	7.4	2.4	116	432	19
May'20	7.2	7.8	2.3	94	212	21	7.1	7.6	2.6	120	253	24
Jun'20	7.2	7.8	2.4	93	221	21	7.3	7.6	2.7	124	278	25

Environmental Officer
KSPCB, RO, Karwar

Annexure-2

Status of E-Flow of River - Kali (Monthly Average in Cusecs)							
20-Jan	**20-Feb**	**20-Mar**	**Aprl-20**	**20-May**	**20-Jun**	**20-Jul**	**20-Aug**
4979.4	6039.1	8464.4	6356.8	5612.5	5311.7	3590.3	469.8

Environmental Officer
KSPCB, RO, Karwar

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KARNATAKA STATE POLLUTION CONTROL BOARD

Name of the River : Krishna
Polluted river stretch : Yadur wadi to Tintini Bridge
Priority : V
Status as on : September 2020

Sl.No.	Activity to be monitored	Timeline	Submission of Progress by State/UT-Compliance Status
1.	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	Action has been initiated by UDD, GoK to train the 35 ULBs on in-situ treatment, viz. phytoremediation and wet-land treatment.
	commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	KUWS&DB: Project proposal for the commencement of setting up of STPs at an estimated cost of ₹1690 crores has been submitted to GoK for approval. ₹100 crore provision has been made for 2020-21 budget.
2.	Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning	31.03.2021	KUWS&DB: 24 months from the date of handing over of the required land from the ULBs for STP construction and I&D works.
	Chief Secretaries may set up appropriate monitoring mechanism at State level Specifying accountability of nodal authorities not below the Secretarylevel Chief Secretaries may have an accountable person attached in their office forthis purpose.	22.01.2020 22.01.2020	State level River Rejuvenation Committee (RRC) is constituted by GoK on 24/11/2018 under the Chairmanship of Principal Secretary to Government (Ecology and Environment). MS, KSPCB; Director, DIC and Director, DMA are the members of the committee. Amonitoring cell is directly working under the Chief Secretary's Office, since 18/03/2020.
	Monitoring at State level must takeplace	Fortnightly Commencing 21.12.2019	4th RRC meeting was held on 11/03/2020 under the Chairmanship of The Principal Secretary to Government (Ecology and Environment). Regular meetings will be conducted to review the progress.
6.	Progress report may be furnished by the States/UTs to Secretary, Ministry of Jal	Monthly (preferably before 20th of every month)	Progress report for the period up to July 2020 is as submitted.

	Shakti Member Secretary,CPCB		
6.1	Progress report maybe comprised of the details along with completion timelines on:		
i.	Identification ofpolluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment		Annexure 1A, 1B
ii.	<u>Status of STPs, I&D and sewerage networks</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		Annexure 2A, 2B
iii.	<u>Status ofCETPs</u> Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status		CETP not applicable. ETP status enclosed as Annexure 3A, 3B, 3C
iv.	Status of Solid Waste Management & Details of Processing Facilities Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		Annexure 4A, 4B, 4C
v.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		Annexure 5A, 5B, 5C
vi.	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizingwaste		Annexure 6A, 6B, 6C

	processing, including waste generated from hotels, ashrams, etc.		
vii.	Ground waterregulation		Drilling new bores are restricted in the notified areas and prior permission has to be taken by the authority. Registration of the drilling rigs has been made compulsory. All commercial users of ground water must take the permission/NOC from Govt of Karnataka (GoK). For the industries in the Polluted River Stretches (PRS) that are using the ground water for their industrial purpose, notice has been sent to take permission from the GoK.
viii.	Adopting good irrigation practices,		Dept of agriculture has been directed to implement measures such as educating farmers about optimal water usage and adopting micro irrigation systems (sprinkler & drip).
ix.	Protectionand management of Flood Plain Zones (FPZ),		Concerned authorities have been informed to take appropriate action.
x.	Rain waterharvesting		Water resource dept is encouraging rain water harvesting through education, regulation, incentives and disincentives.
xi.	Maintaining minimum environmental flow of river		Irrigation dept. has been informed to take appropriate action.
xii.	Plantation on both sides of theriver		Afforestation along the peripherals area of the rivers and along the banks of cannels has been proposed by dept. of Agriculture.
xiii.	Setting up biodiversity parks on flood plains by removingencroachment		Bio-diversity Management Committes (BMC) in individual ULBs is identifying the parks that can be converted into bio-diversity parks.

Annexure 1A

Sources including Nala/Drains joining to River – Krishna and its Water Quality: Bijapur

Sl No	Location	pH	BOD	COD	TSS
1	SunakalNala	7.7	2.2	26	20
2	HalabhaviNala	8.00	2.2	22	8
3	JaladurgaNala	8.25	2	25	8
4	GonavatlaNala	8.20	3	24	21
5	GuntagolaNala	8.05	3	28	20
6	RamrotiNala	8.00	3	25	16
7	RaidurgaNala	8.35	3	33	18

Annexure-1B

Sources including Nala/Drains joining to River – Krishna: Raichur

Sl.No	**Locations**	**pH**	**BOD (mg/L)**	**DO (mg/L)**	**DS (mg/L)**	**Conductivity (uMhos/cm)**	**COD**	**Total Coliforms (mpn/100 ml)**	**Faecal coliforms (mpn/100 ml)**	**Oil & Grease**
1	Yalagur Gram Panchayat Drain	8.65	4	5.9	840	1320	28	1600	900	BDL
2	Kalagi Gram Panchayat Drain	8.38	4	6.8	360	588	36	1600	900	BDL
3	Mudur Gram Panchayat Drain	7.46	98	Nil	1120	1748	188	3200	1800	BDL
4	Tangadagi Gram Panchayat Drain	7.8	3	6.1	400	644	52	1600	900	BDL
5	Nalatwad Town Panchayat	7.57	135	Nil	1120	1750	220	3200	1800	BDL

Annexure 1C

Sources including Nala/Drains joining to River – Krishna

Sl. No	Year	Locations	DO (mg/L)	BOD(mg/L)	Fecal Coliform (MPN/100ml)	Total Coliform (MPN/100ml)
1	2019-20	Yadurwadi	6.6	16.2	1800	3200
2		Kallola	5.9	5.22	1800	3200
3		Yadur	6.4	3.00	1800	3200
4		Ankali	7	3.9	900	1600
5		BavanSaudatti	7.5	1.02	900	1600
6		Diggewadi	7.2	3.9	900	1600
7		Chinchalli	7.4	2.46	900	1600
8		Malawad	5.4	2.22	900	1600
9		Krishna Kittur	5.3	2.2	900	1600
10		Shirgur	4.7	1.98	350	900
11		Kudachi	Nil	191	1800	3200
12		Sapatsagar	5.8	1.86	500	900
13		Agarani	6.2	3.6	900	1600
14		Hulagabali	6.2	3.3	300	900
15		NadiIngalgaon	5	6.22	350	1600
16		Darur	5.7	2.7	500	1600
17		Halyal	7.7	1.86	350	1600
18		Avarkhod	7.1	1.98	140	900
19		Khavatakoppa	2.2	12.3	1800	3200
20		Shegunshi	3	25	1800	3200
21		Satti	4.8	8.5	900	1600
22		Nadeshwar	7.3	1.38	280	900
23		Janawad	7	2.82	500	1600
24		Savadi	4.2	7.65	900	1600
25		Shirhatti	9	1.02	350	900
26		Zunjarwadi	7.4	1.26	350	1600
27	2019-20	Asangi	Nil	23.1	1800	3200

Annexure 2A

Municipal Sewage generation and Treatment

The Town wise sewage generation and treatment capacity developed so far is provided given as below

(Details obtained by KUWSSB, Raichur/TP Hatti).

Name of the local body	**Capacity of STP (MLD)**	**Preliminary Estimated Cost (cores)**	**Present status of STP**	**Target date of Completion**
Town Municipal Council, Lingsugur-Tq, Raichur-Dist.	6.82 (Proposed)	91.5	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.	
Town Municipal Council, Deodurga, RaichurDist	5 (Proposed)	36.94	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.	
HUTTI TOWN PANCHAYAT	---	---	Hatti is upgraded from Gram Panchayat to Town Panchayat on December 4, 2017. DPR preparation is in initial stage	
Hutti Notified Area	2x1.25 MLD (Existing)	-	Working	

Annexure 2B

Municipal Sewage generation and Treatment

The Town wise sewage generation and treatment capacity developed so far is provided given as below

(Details obtained by KUWSSB, Belagavi).

Name of the local body	Capacity of STP (MLD)	Preliminary Estimated Cost (cores)	Present status of STP	Target date of Completion
Town Muncipal Council Sadalaga, Chikkodi Taluk, Belagavi District.	3.72	Construction of STP work is completed and now it is under repair.	Now it is under repair.	Construction of STP work is completed and now it is under repair.
Town Muncipal Council Chikkodi, Chikkodi Taluk, Belagavi District.	5.80	Commissioned	Commissioned	Commissioned
Town Muncipal Council, Kudachi, Raibag Taluk, Belagavi District	4.30	73.41	DPR Prepared by KUWSSB and submitted to DMA	December-2021.
Town Panchayat, ChinchaliRaibag Taluk Belagavi District.	3.88	3.30	DPR Prepared by KUWSSB and submitted to DMA	December-2021.
Town Panchayat Ainapur, Athani-Taluk, Belagavi District	4.37	69.88	DPR Prepared by KUWSSB and submitted to DMA	December-2021.
Town Panchayat Examba Chikkodi Taluk Belagavi District.	2.61	89.07	DPR Prepared by KUWSSB and submitted to DMA	December-2021.
Town Muncipal Council Ugarkurd, Athani Taluk, Belagavi District	3.2	96.94	DPR under preparation based on the queries received from DMA	December-2021.
CMC, Rabakavi-Banahatti, Tq-Jamakhandi, Dist-Bagalkot	9.2	Commissioning is under progress	100% work completed	Commissioning is under progress

TMC-Terdal, Jamakhandi-Tq, Bagalkot-Dist.	0.75	Not estimated (Under Progress)	DPR under preparation.	DPR under preparation.

Annexure-3A

Details of industry ETP's located in the Krishna river basin:

Sl. No	**Name of the Industry**	**Products**	**Type of industry**	**Distance from Krishna River Km**
01	M/s Hutti Gold Mines Co., Ltd, Hutti Village, Lingasugur-TqDist-Raichur	Gold- 0.05 MMT Gold Ore processing- 0.0750 MMT	Gold Ore Mining	About 17 Km

Water consumption and Effluent Generation by Industries:

Industrial Water Consumption	Industrial Effluent generation	No. of Captive ETPs	Treatment Capacity (MLD)	Gap in Treatment (MLD)
1.13 MLD	0.46 MLD	1	2x1.25 MLD capacity Common Treatment Plant (Effluent/Sewage)	Nil

Annexure 3B

Details of the industry located in the Krishna River basin:

Sl. No	Name of the Industry	Type of industry	Products				Distance from Krishna River Km
			Sugar TCD	Co-gen (MW)	Distillery(KLD)	Other	
01	**Sugar & Co-gen** M/s. Balaji Sugars & Chemicals Pvt. Ltd, YaragalMadari Village	Sugar & Co-gen	3500	13	----	About 4.8 KM	01

Water consumption and Effluent Generation by Industries:

Industrial Water Consumption	Industrial Effluent generation	No. of Captive ETPs	Treatment Capacity (MLD)	Gap in Treatment (MLD)
638 KLD	628	1 ETP Unit	1 MLD	No any Gaps in the treatment.

Annexure 3C

Details of industry ETP's located in the Krishna river basin:

Sl. No	Name of the Industry	Type of industry	Products			Other	Distance from Krishna River Km
			Sugar TCD	Co-gen (MW)	Distillery(KLD)		
01	M/s. Shivashakti Sugar ltd, Soudatti Village, Raibag Taluk, Belagavi District.	Sugar & Co-gen	10000	60	----		About 4.42
02	M/s. Krishna SSK Ni, Sankonatti Village, Athani Taluk, Belagavi District.	Sugar & Co-gen	5500	27	-----		About 3.89
02	M/s. Ugar Sugar works ltd, Ugarkhurd Village, Athani Taluk, Belagavi District.	Sugar, Distillery & Co-gen	10000	44	Rectified Spirit-75 KLD, Bottling-12000, ENA-50KLPD, Absolute Alcohol 50 KLD, Fragies Sugars Slip 5.5 KLPD.		About 0.68
03	M/s. Hermers Distillery Private limited, YadraviVilage, Raibag Taluk, Belagavi District.	Distillery	----	5	Spirit (ENA)-3000.000KLT, IMFL-300000 cases.		About 3.96
04	M/s. Sovereign Sugar Industries Ltd., Terdal, Jamakhandi-Tq, Bagalkot-Dist	Sugar & Co-gen	3500	15	----	----	4.92
05	**M/s. SaiPriya Sugars Ltd., Hipparagi-Mygur,** Jamakhandi-Tq, Bagalkot-Dist	Sugar & Co-gen	10000	65	----	----	5.0
06	**M/s. SaiPriya Sugars Ltd(Distillery Division), Hipparagi-Mygur,** Jamakhandi-Tq, Bagalkot-Dist	**Distillery**	----	----	120	----	5.0
07	**M/s. Jamakhandi Sugars Ltd., Hirepadasalagi,** Jamakhandi-Tq, Bagalkot-Dist	Sugar & Co-gen	5000	27	----	----	5.0
08	**M/s. Jamakhandi Sugars**	**Distillery**			60		5.0

	Ltd(Distillery Division),, Hirepadasalagi, Jamakhandi-Tq, Bagalkot-Dist		----	----		----	
09	**M/s. Dempo Dairy Industries Ltd., Asangi,** Jamakhandi-Tq, Bagalkot-Dist	Dairy Industry	----	----	----	Milk Powder – 10 MT/day Ghee – 90 MT/Month Butter – 180 MT/Month S F M Bottles – 1 Lakh bottles per month Mysore Pak – 2.0 MT/Month DharwadPeda – 3.0 MT/Month Badam Powder – 2 MT/Month Jamoon Mix – 3 MT/Month Khova – 3 MT/Month Shrikhand–4	1.23

						MT/Month	
10	**M/s. The Banhatti Co-Operative Spinning Mill Ltd , Sy No 14 & 94, Banahatti, Tq: JamkhandiDt: Bagalkot**	**Spinning Mill Industry**	----	----	----	Cotton spinning & mercerizing 25,080 Spindles/Month	2.78

Table No.8Water consumption and Effluent Generation by Industries:

Industrial Water Consumption	Industrial Effluent generation	No. of Captive ETPs	Treatment Capacity (MLD)	Gap in Treatment (MLD)
27.810 MLD	8.153	7 ETP Unit & 2 CPU Unit	9.15 MLD	No any Gaps in the treatment.

Annexure 4A

Plan for Integrated Solid Waste Management (ISWM) of local Bodies.

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

Annexure-4B

Solid Waste Management Details:

Plan for Integrated Solid Waste Management (ISWM) of Local Bodies.

Sl. No	Name of Local Body	Population (census2011)	Total Solid Waste Generation	Proposed Achievable target	Present Status
1	Town Panchayat, Nalatwad	13150	2 MT/Day	Directions were given to the concerned Local Body to take immediate action to comply with the same from time to time .	The Town Panchayat, Nalatwad have not yet identified the MSW site

Annexure 4C
Plan for Integrated Solid Waste Management (ISWM) of local Bodies.

Sl. No	Name of Local Body	Population (census2011)	Total Solid Waste Generation	Proposed Achievable target	Present Status
1	Town Panchayat Examba Chikkodi Taluk Belagavi District.	15224	4.5 MT/Day	Directions were given to all the concerned Local Bodies to take immediate action to comply with SWM Rules from time to time and during recent meeting held at DC office on 27-11-2019, 03-12-2019,23-12-2019 and 26-12-2019. Target date to comply is 31-12-2020.	The newly formed (during 2015) local bodies (TP Examba, TMC Ugarkurd, TP Chinchali and TP Ainapur,have to show the progress towards complying to SWM Rules.
2	Town Muncipal Council Ugarkurd, Athani Taluk, Belagavi District	23762	8.0 MT/Day		
3	Town Muncipal Council, Kudachi, Raibag Taluk, Belagavi District	23154	6.5 MT/Day		
4	Town Panchayat, Chinchali Raibag Taluk Belagavi District.	18986	4.5 MT/Day		
5	Town Panchayat Ainapur, Athani-Taluk, Belagavi District	18913	4.6 MT/Day		
6	Town Muncipal Council Sadalaga, Chikkodi Taluk, Belagavi District.	23790	5 MT/Day		
7	Town Muncipal Council Chikkodi, Chikkodi Taluk, Belagavi District.	38307	14.5 MT/Day		
8	CMC, Rabakavi-Banahatti, Jamakhandi-Tq, Bagalkot-Dist	77,004	23 TPD	Directions were given to concerned Local Body to take immediate action to comply with the	The ULBs have provided MSW landfill site for the treatment of Solid Waste Generated
9	TMC, Terdal, Jamakhandi-Tq, Bagalkot-Dist	26,088	13TPD		

				same from time to time	

Annexure 5A

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

Sl. No.	Gramapanchayath	Village/ habitation	Type of source (bw / surface well/ filter)	Ph value(013)	Turbidity(001)	Total dissolved solids (TDS) (015)	Total Alkalinity	Nitrate(006)	Fluoride(003)	Chloride(005)	Total alkalinity(018)	Total hardness(016)	Sulphate(007)	Calcium	Magnesium
								As no 3	As (f)	(as cl)	Asc aco3	As cac o3	(as so4)	As Ca	As Mg
					(NTU)	(mg/ l)	(m g/l)	(m g/l)	(m g/l)	(m g/l)	(mg/ l)	(m g/l)	(m g/l)	(m g/l)	(m g/l)
				6.5-8.5	(1-5)	500-2000	200 - 600	45-n.r.	1.0 - 1.5	250-1000	200-600	200-600	200-400	75-200	30-100
1	Hutti Notified Area	Hutti	bw	8.10	8	610	224	0.96	1.28	114	224	216	160	53	20

Annexure 5B

An ISO 9001:2015 and BS OHSAS 18001:2007 Certified Laboratory

gional Office : Belagavi-1
rnataka State Pollution Control Board
Main Road, Auto Nagar,
nbargi Industrial Area, Belagavi-590 015
elax : 0831-2459121

towards a cleaner Karnataka

ANALYSIS REPORT : WATER No.103 Dt:- 01/06/2020

Regional Laboratory, Belgavi.

Date: 18/5/20

O: PCB/BGV-1/LAB/AR/2020-21/ 152

AME OF THE STATION : Tributaries (Nalla) of Krishna River Polluted Stretch.

AMPLE COLLECTED BY : RO Vijayapur.

ATE OF COLLECTION : 04-03-2020.

ECEIVED DATE : 05-03-2020.

ARTICULARS OF SAMPLI : 1600-B/w sample collected from Yalagur Gram Panchayat. 1601-B/w sample collected from Kalagi, Gram Panchayat. 1602-B/w sample collected from Mudur, Gram Panchayat. 1603-B/w sample collected from tangadagi, Gram Panchayat. 1604-B/w sample collected from Nalatwad, Gram Panchayat.

Sl No.	PARAMETERS	UNITS	Std Limit IS 10500 (2012) *DL	**PL	1600	1601	1602	1603	1604
1	pH		6.5-8.5	NR	7.61	7.73	7.51	7.55	7.35
2	BOD	mg/l	–	–	1	1	1	1	1
3	Dissolved Solids	mg/l	500	2000	640	720	640	840	1080
4	Conductivity	uMhos/cm	–	–	1012	1140	1000	1320	1684
5	Chlorid as Cl	mg/l	250	1000	128	144	120	124	184
6	Sulphate as SO_4	mg/l	200	400	94	127	50	48	447
7	Hardness	mg/l	200	600	324	352	452	464	516
8	Calcium as Ca	mg/l	75	200	83	117	114	114	93
9	Magnesium as Mg	mg/l	30	100	28	25	41	44	69
10	Nitrate as NO_3	mg/l	45	NR	7.82	4.96	19.8	19.8	69.9
11	Iron as Fe	mg/l	0.3	NR	0.058	0.876	0.025	0.017	0.104
12	Fluoride as F	mg/l	1	1.5	0.533	0.876	0.523	0.532	0.778
13	Chromium as Cr^{+6}	mg/l	0.05	NR	BDL	BDL	BDL	BDL	BDL
14	Alkalinity	mg/l	200	600	276	404	408	436	216
15	Turbidity	ntu	1	5	0.2	3.2	0.3	0.5	7.1

Inference:

Note 1. Below Desirable Limit- Good Quality-Green 2. Between Desirable Limit to Permissible Limit- Moderate Quality-Orange 3. Above Permissible Limit- Poor Quality-Red. 4. Standards are compared with IS 10500 Drinking Water Standards 5. The above results pertains only to the sample tested. 6. The method of analysis is as per the Standard Method for the examination of Water and Waste water, APHA, AWWA, WPCF, USA and Indian Standards Publication. 7. ND= Not Detected, BDL= Below Detection Limit, 8. Desirable Limits, *PL= **Permissible Limits (in the absence of alternate source). NR= Not Relaxable.

Analysed By

Laboratory Head

Scientific Officer
Regional Laboratory
Karnataka State Pollution Control Bo
Belgaum.

Annexure 5C

AN ISO 9001:2015 and OHSAS 18001:2007 Certified Laboratory
Regional Office, Belagavi-1
Karnataka State Pollution Control Board
#1, Vinayaka Nagar, A. H. Naga
Kanbargi (Industrial Area), Belagavi 590 010
Telefax: 0831-2459121

REGIONAL LABORATORY, BELAGAVI

ANALYSIS REPORT : RIVER

NO: PCB/BGV-1/LAB/AR/NWMP/2020-21/ 305 Date: 14/7/20

NAME OF THE STATION : River water
SAMPLE COLLECTED BY : RO, Chikkodi.
DATE OF RECEIPT : 04-06-2020.
PARTICULARS OF SAMPLE : 141-Krishna River Ankali Bridge. 143-Krishna River at Yadurwadi (Maharashtra andKarnataka) state border, Belagavi. 145-Krishna River at Ugar Khurd. 147-Ghataprabha River Gokak City Water supply Jackwell.

Sl No.	Sample No.s / Parameters	Units	141	143	145	147
GENERAL OBSERVATIONS						
I	Station Code		1889	Board Programme	1182	1163
II	Date of Collection		03/06/2020	03/06/2020	03/06/2020	02/06/2020
III	Time of Collection		08.50 am	09.10 am	10.10 am	05.00 pm
IV	Weather		Clear	Clear	Clear	Clear
V	Deapth of the Stream		> 100 Cm	> 100 Cm	> 100 Cm	50-100 Cm
VI	Colour		Clear	Clear	Clear	Clear
VII	Intensity		Light	Light	Light	Light
VIII	Odour		None	None	None	None
IX	Viss. Eff. Discharge in Proximity		None	None	None	None
X	Human activities		Cloth Washing & WSP	-	ClothWashing & WSP	Cloth Washing
XI	Location Details		-	-	-	
LAB ANALYSIS						
1	Temperature	°C	22	22	23	23
2	Dissolved oxygen	mg/l	7.7	7.8	7.6	6.5
3	pH	-	8.53	8.53	8.46	8.61
4	Conductivity	uMhos/cm	648	448	508	580
5	BOD	mgl	1.12	1.05	2.25	2.1
6	Nitrate as NO_3	mg/l	0.787	1.43	0.819	0.986
7	Ammonia As N	mg/l	BDL	BDL	BDL	BDL
8	Total Coli	mpn/100ml	1600	1600	900	900
9	Faecal Coli	mpn/100ml	900	900	500	500
10	Faecal Streptococci	mpn/100ml	500	500	350	280
11	Turbidity	NTU	7.6	5.6	6.2	11.3
12	Pheno Alkalinity	mg/l	16	4	12	Nil
13	Total Alkalinity	mg/l	160	136	144	168
14	Hardness as Ca CO_3	mg/l	184	164	176	156
15	Calcium as Ca	mg/l	88	88	92	84
16	Magnesium as Mg	mg/l	96	76	84	72
17	Chlorid as Cl	mg/l	64	48	64	64
18	Sulphate as SO_4	mg/l	139	52	60	92
19	Sodium as Na	mg/l	23.37	18.36	26.1	26.66
20	Pottasium as K	mg/l	1.48	1.32	1.43	2.36
21	Total Dissolved Solids	mg/l	400	280	360	360
22	Fixed Dissolved Solids	mg/l	160	120	120	120
23	Total Suspended Solids	mg/l	10	10	10	15
24	Phosphate as PO4	mg/l	0.055	0.076	0.049	0.065
25	Fluoride as F	mg/l	0.119	0.198	0.216	0.322
26	COD	mg/l	47	32	27	48
27	TKN as N	mg/l	BDL	BDL	BDL	BDL
28	Boron as B	mg/l	BDL	BDL	BDL	BDL
	Class		**C**	**C**	**C**	**C**
	Water Quality Index (WQI)		**S**	**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
BDL= Below Detection Limit, Please enter the heavy metal parameters results.

Lab Assistant

Scientific Officer
Regional Laboratory
Karnataka State Pollution Control Board
Belgaum.

Annexure 6A

Sl. No.	Name of the Industry	Hazardous Waste Generation (TPD or MTD)	Plastic Waste Generation (TPD or MTD)	Bio-Medical Waste Generation (TPD or MTD) & Total No. of Health care Centres
1	M/s. Hutti Gold Mines Lingasugur ,Raichur	**As per Annual Report From-IV submitted for the year 2019-20** 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 litres 3. Discarded Containers-7112 nos.	1.TMC--Devadurga ---2TPA (0.005 TPD) 2. TMC-Lingasugur ----6.1Ton/A (0.016,TPD) 3.Hutti TP - 0.5TP/A ((0.001,TPD) 4.Hutti Notified Area ----0.38 TP/A (0.001 TPD)	1. TMC-Devadurga - 59 HCE's 2. TMC-LingasugurTq - 106 HCE's 3. Hutti -TP - 04 HCE's 4. Hutti Notified Area - 01 HCE Total Biomedical Waste collection from the above HCE's:133.5 Kg/day Above BMW waste is treated in RIMACT facility, Raichur.

Annexure 6B

Sl NO	River	Sl. No.	Name of the Industry	Hazardous Waste Generation	Plastic Waste Generation (TPD or MTD)	Bio-Medical Waste Generation (TPD or MTD) & Total No. of Health care Centres
01	**Krishna**	1	M/s. Balaji Sugars & Chemicals Pvt. Ltd, YaragalMadari Village	As per authorization Used Oil-2.0 KL/A.	1 local body is covered under krishna river strech pertaining to Regional Office, Vijayapura	There are 16 number of Health Care Facilities (HCFs) in near the Krishna River Basin including 02 number Bedded

					(Town Panchayat-Naltwad) Total Plastic Waste generation of about 0.5 TPD	HCFs and 14 number Non Bedded HCFs. In all Bedded HCFs total numbers of Beds are 60. Total Bio MedicalWaste (BMW) generated by all HCFs is 15 Kg/day.

Annexure 6C

Sl No	River	Sl No	Name of the Industry	Hazardous Waste Generation (TPD or MTD)	Plastic Waste Generation (TPD or MTD)	Bio-Medical Waste Generation (TPD or MTD) & Total No. of Health care Centres
10	Krishna	1	M/s. Shivashakti Sugar Ltd.,Raibag, Belgavi	0.00301 TPD	7 local bodies covered under krishna river strech pertaining to Regional Office, Chikkodi (TMC Chikkodi, TMC Sdalaga, TMC Kudachi, TMC Ugarkhurd, TP Examba, TP Chinchali& TP Ainapur) - Total Plastic Waste generation - 0.59 TPD	7 local bodies covered under krishna river strech pertaining to Regional Office, Chikkodi (TMC Chikkodi, TMC Sdalaga, TMC Kudachi, TMC Ugarkhurd, TP Examba, TP Chinchali& TP Ainapur) - Total No of HCE's 201. Total Bio-Medical Waste generation - 0.2265 TPD
		2	M/s. Krishna SSK Sankonatti Village, Athani,Belagavi	0.002726 TPD		
		3	M/s.Ugar Sugar works Ltd., UgardKhard Village , Athani, Belagavi	0.03490 TPD		
		4	M/s. Herms Distillery Yadravi village Raibagtq, Belagavidist	0.001236 TPD		
		5	M/s. Sovereign Sugar Industries Ltd., Terdal, Jamakhandi-Tq, Bagalkot-Dist	The authorities have not obtained the HWM authorization. They had operated the industry for 02 years during the 2017-18 and 2018-19 seasons and then closed and not in operation.		

		6	M/s. SaiPriya Sugars Ltd., Hipparagi-Mygur, Jamakhandi-Tq, Bagalkot-Dist	As per authorization 1. Used Oil-0.125KL/Annum 2. Oil Soaked cotton waste-0.025MTA 3. Oil filters-05 No's/Annum	2 local bodies covered under krishna river strech pertaining to Regional Office, Bagalkot (CMC Rabakavi-Banahatti, TMC, Terdal) - Total Plastic Waste generation – 3.46 TPD	2 local bodies covered under krishna river strech pertaining to Regional Office, Bagalkot(CMCRabakavi-Banahatti, TMC, Terdal) - Total No of HCE's 118. Total Bio-Medical Waste generation - 0.610 TPD
		7	M/s. Jamakhandi Sugars Ltd., Hirepadasalagi, Jamakhandi-Tq, Bagalkot-Dist	As per authorization 1. Used Oil-0.9KL/Annum 2. Oil Soaked cotton waste-0.02MTA 3. Oil filters-04 No's/Annum		
		8	M/s. Dempo Dairy Industries Ltd., Asangi, Jamakhandi-Tq, Bagalkot-Dist	As per authorization 1. Used Oil-0.4KL/Annum 2. Oil Soaked cotton waste-0.3MTA 3. Oil filters-20 No's/Annum		
		9	M/s. The Banhatti Co-Operative Spinning Mill Ltd , Sy No 14 & 94, Banahatti, Tq: JamkhandiDt: Bagalkot	As per authorization Used Oil-0.5KL/Annum		

National Mission for Clean Ganga

Format for Submission of monthly Progress report by states/UTs

(Hon'ble NGT in the matter of OA No.673/2018, Date: 06/12/2019)

KARNATAKA STATE POLLUTION CONTROL BOARD

Name of the River : Lakshmanteertha

Polluted river stretch : Hunsuru to Kattemalawadi (10 KM)

Priority : III

Status as on : September 2020

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by Local Bodies- Compliance Status
			CMC Hunsur
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2021	Action has been initiated by UDD, GoK to train the 35 ULBs on in-situ treatment, viz. phytoremediation and wet-land treatment.
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2021	KUWS&DB: Project proposal for the commencement of setting up of STPs at an estimated cost of ₹1690 crores has been submitted to GoK for approval. ₹100 croreprovision has been made for 2020-21 budget.
2	Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning	31.03.2021	KUWS&DB: 24 months from the date of handing over of the required land from the ULBs for STP construction and I&D works.
3	Chief Secretaries may set up appropriate monitoring mechanism at State level	22.01.2020	• State level River Rejuvenation Committee (RRC) is constituted by GoK on 24/11/2018 under the Chairmanship of Principal Secretary to Government (Ecology and Environment). MS, KSPCB; Director, DIC and Director, DMA are the members of the committee. • A monitoring cell is directly working under the Chief Secretary's Office, since 18/03/2020.

	• Specifying accountability of nodal authorities not below the Secretary level		
	• Chief Secretaries may have an accountable person attached in their office for this purpose.	22.01.2020	
	• Monitoring at State level must take place	Fortnightly Commencing 21,12.2019	4th RRC meeting was held on 11/03/2020 under the Chairmanship of The Principal Secretary to Government (Ecology and Environment). Regular meetings will be conducted to review the progress.
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB	Monthly (preferably before 20° of every month)	Progress report for the period up to August 2020 is as submitted. --
6.1	Progress Report may be comprised of details along with completion timelines on: (i) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment	2 drains are identified & monitored. The sullage effluent is having BOD & TC count in excess of the standards. The said drains are to be connected to nearby wetwell to pump the same to the STPs and there is no progress for providing I&D works	
	(ii) <u>Status of STPs.I&D and sewerage networks</u> Details of	**CMC Hunsur** Existing infrastructure: 3.91 MLD Gap: 2.95 MLD Proposed : 4.09 MLD Proposed along with Completion Timeline : 31-03-2021 DPR for Rs. 80 Crores is submitted for approval to Govt.	

<table>
<tr><td></td><td>Existing Infrastructure, Gap Analysis, Proposed along with completion timeline</td><td>
<u>Status of I&D works</u> :
<table>
<tr><td>Existing</td><td>Proposed</td></tr>
<tr><td>Nil</td><td>2 drains carrying sullage effluent is to be connected to nearby wetwell to pump the sewage in to STP.
No Work Progress</td></tr>
</table>
<u>Status of Sewerage works</u>:
<table>
<tr><td>Existing</td><td>Proposed</td></tr>
<tr><td>50% of the area covered with UGD & further work in progress</td><td>House to house connection to sewer networks is yet to be undertaken</td></tr>
</table>
<u>Present Status</u> : Provided 3.91 MLD STP for the treatment of 6.86 MLD sewage effluent & the said STP is in operations. As of now there is gap in STP & the existing STP needs to be upgraded from conventional to advanced treatment technologies & also by considering 2035 Population additional 4.09 STP is to be provided for which DPR for Rs. 80.0 Crores is submitted for approval to the Govt. Proposed to provide wetwell & STP for connecting missing link is yet to be taken up. Storm water drains carrying sullage effluent in to lakshmanatheertha River & the same is yet to be diverting the sullage in to nearby wet well from the storm water drains is yet to be undertaken. The works will be completed within two years after approval of DPR as per the details submitted by Chief Engineer, KUWSDB, Mysuru Zone, Mysuru.
The Status of STPs, I&D and Sewerage Networks is shown in <u>Annexure-1</u>
</td></tr>
<tr><td></td><td>(iii) <u>Status of CETPs</u> Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status</td><td>There are no CETPs in the polluted river stretch. There are 08 industries in this stretch and these industries are treating the sewage & trade effluent in their own captive sewage treatment and effluent treatment plants.</td></tr>
<tr><td></td><td>(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u> Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline</td><td>Out of 23.0 TPD around 10.0 TPD of waste is converted to compost and remaining 13 TPD is dumped as such. There is no progress for providing dedicated compost plant and sanitary land fill as per SWM Rules. Work Order for construction of Sanitary fill site is issued and there is no work progress in the site.
<u>Status of Solid Waste Management & Details of Processing Facilities is shown in</u> <u>Annexure-2</u></td></tr>
<tr><td></td><td>(iv) Latest water quality of</td><td></td></tr>
</table>

	polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;	**6.1(v) Latest water quality of polluted river stretch for the month of August 2020 in Annexure-3**
	(v) Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams, etc.	**Bio Medical Waste**: The HCEs located on polluted river stretch are collecting & disposing the BMW to the operator of CBMWTF & the non bedded HCEs i.e., Veterinary institutions the same through deep burial / sharp pits. Implementation of Bar code practice and to ensure proper collection & disposal of BMW to operator of CBMWTF from the entire HCEs. There are 68 HCEs in this stretch generating 0.0695 TPD of Bio Medical Waste which is being disposed off in to operator of CBMWTF. **Plastic Wastes** As per State Government Order complete ban of use of Plastic carry bags of irrespective size & thickness is enforced in all the polluted river stretch by the respective LBs and GPs. There are no Plastic bags manufacturing industries in the polluted river stretch and also there are no producers, brand owners and plastic waste recycling industries in the polluted river stretch. Plastic Wastes are collected in dry waste collection centers and the same is disposed to registered recyclers. Action is being initiated by the LBs for collection and disposal of solid wastes generating from Hotels located on Polluted river stretch.
	(v) Ground water regulation	Rain water harvesting is made mandatory for new constructions. Taluk level committee for giving approval for new borewells is formed. CMC Hunsur comes under safer zone as per ground water resources assessment and there is no over exploitation of ground water in the region. Status of Ground Water Resource Assessment in **Annexure-4**
	(vi) Adopting good irrigation practices,	The Dept. of Agriculture has submitted action plan for implementation of following measures. • General Government Practice of Irrigation is maintained in the Hunsur Taluk. • Farmers are made aware to use water optimally.
	(vii) Protection and management of Flood Plain Zones(FPZ),Rain water harvesting,	During the month of August 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.
	(viii) Maintaining minimum environmental flow of river	The Cauvery Neeravari Nigagam Ltd., is requested to submit the action plan as per MoEF & CC norms during monsoon seasons and the same is not submitted.
	(ix) Plantation on both sides of the river	As of now there is no plantations on the banks of river Lakshmantheertha in the polluted stretch since the area is confined to CMC limit.
	(x) Setting up biodiversity parkson floodplains by removing	As of now, there are no Bio diversity parks in this stretch

	encroachment	

Environment Officer,
Regional Office-2, Mysuru Rural

Annexure- 1

6.1(ii) Status of STPs.I&D and sewerage networks

Name of the LBs	Status of STPs Existing infrastructure		Status of I&D works		Gap analysis	Sewerage works		Proposed along with completion timeline
	Existing	Proposed	Existing	Proposed		Existing	Proposed	
CMC Hunsur	3.91	4.09 MLD	Nil	2 Drains are identified & monitored and there is no progress for providing I&D works	2.95	50% of the area covered with UGD & further work in progress	House to house connection to sewer networks is yet to be undertaken	DPR for Rs. 80.0 Crores submitted for approval to the Govt. vide lt 288/2019-20 dtd 22.05.2020. The work will be completed within two years after approval of DPR

Annexure- 2

6.1 (iv) Status of Solid Waste Management & Details of Processing Facilities

Local Bodies	Types of Waste / Characteristic of waste	Generated Quantity / day	Collection / Storage facility with capacity	Disposal/ Treatment facility with capacity along with location	Total Gap with generation & existing treatment facilities if any	Proposed action plan /facility to cover gap	Time limit	Remarks
City Municipal Council, Hunsur	Domes tic	23 TPD	23 TPD Total Area – 4.5 Acres	Composting Method – **10 TPD** At Survey/Plot No. 196/1, Darga Road, Hunsuru	13.0 T	DPR is approved for providing sanitary land fill site & tender is to be finalized.	31-03-2021	Tender allotted & the works are not undertaken

Annexure- 3

6.1 (iv)Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river

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	**AUG -20**	6.8	2.0	390	2100
2	D/S of Lakshmantheertha at water barrage near Kattemalalavadi Village	**AUG -20**	6.5	2.2	490	2400

ANNEXURE-4

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
Mysuru	Hunsur	11587	7338	4249	63.00	***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.						

Environment Officer,
Regional Office-2, Mysuru Rural

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KARNATAKA STATE POLLUTION CONTROL BOARD

Name of the River : Malaprabha
Polluted river stretch : Khanapur to Ramdurga (80 KM)
Priority : III
Status as on : September 2020

Sl. No.	Activity to be monitored	Timeline	Progress During the Month of Sept-20
1.	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	KUWS&DB submitted the following TP Khanapur: DPR for Rs. 6657.00Lakhs Submitted to the Govt. for according approval vide Lr No. 2026/dtd:08-11-2019. TP MK Hubli: DPR for Rs. 5466.00Lakhs Submitted to the Govt. for according approval vide Lr No. 1916/dtd: 28-10-2019. TP Munavalli: DPR for Rs. 6876.00Lakhs Submitted to the Govt. for according approval vide Lr No. 1917/dtd:28-10-2019. TMC Savadatti: DPR for Rs. 10430.00Lakhs Submitted to the Govt. for according approval vide Lr No. 01/dtd:20-04.2019. TMC Ramdurgi: 3.30 MLD capacity WSP type, 1.00 MLD capacity MBBR type work is under progress at an estimate cost of Rs. 1818.18 Lakhs.
	commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	
2.	Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning	31.03.2021	
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretarylevel • Chief Secretaries may have an accountable person attached in their office for this purpose.	22.01.2020 22.01.2020	•
	• Monitoring at State level must takeplace	Fortnightly Commencing 21.12.2019	
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of JalShakti Member Secretary,CPCB	Monthly (preferably before 20th of every month)	
4.1.	Progress report maybe comprised of the details along with completion timelines on:		

i.	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment		Completed Monitoring Regularly
ii.	**Status of STPs, I&D and sewerage networks** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		**Enclosed as Annexure-I.**
iii.	**Status ofCETPs** Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status		No CETP. All 04 nos. of industries have provided ETP and complying. **Enclosed as Annexure-II**
iv.	Status of Solid Waste Management & Details of Processing Facilities Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		**Enclosed as Annexure-III**
v.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		Enclosed and forwarded to ECC, **Enclosed as Annexure-IV**
vi.	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizingwaste processing, including waste generated from hotels, ashrams, etc.		Complied. **Enclosed as Annexure-V**
vii.	Ground water regulation		Dept of Ground water Directorate is yet to submit,
viii.	Adopting good irrigation practices,		Dept of Agriculture is yet to submit
ix.	Protectionand management of Flood Plain Zones (FPZ),		Dept of Forest is yet to submit.
x.	Rain waterharvesting		Dept of PD, DUDC and PD, ZP is yet to submit.
xi.	Maintaining minimum environmental flow of river		Dept of Major Irrigation is yet to submit.
xii.	Plantation on both sides of theriver		Dept of Forest is yet to submit.
xiii.	Setting up biodiversity parks on flood plains by removingencroachment		Dept of Forest is yet to submit.

Annexure I

Details of STPs of Local Body pertaining to Regional office

Sl	Name of	City/	Location of	Date of	Status	Install	Actual	Technology	Use of	Progress of STP

No	the District	Town	STP with coordinates (Latitude and Longitude, if available)	Commissioning	(Operational / Non Operational/ Under Construction)	capacity of STPs (in MLD)	Utilization of installed Capacity (in MLD)	adapted (UASB/ ASB/OP/SBR / MBR/FAB Etc.,)	treated sewage with quantity	
1	TMC Ramdurg, Dist: Belagavi.	Ramdurg	15°56'39.24" N 75°17'29.33" E	-	Under Construction	1.00	-	MBBR	Agricultural Purpose	3.30 MLD capacity WSP type, 1.00 MLD capacity MBBR type work is under progress at an estimate cost of Rs. 1818.18 Lakhs
			15°57'53.86" N 75°19'51.45" E	-	Under Construction	3.30	-	WSPS	Agricultural Purpose	
2	TP, Khanapur, Dist: Belagavi.	Khanapur			NO	Land identification is under progress	----	----		DPR for Rs. 6657.00 Lakhs submitted to the Govt. for according approval vide Ltr. No. 2026 Dtd : 08.11.2019
3	TP, MKHubli, Dist: Belagavi.	M.K. Hubli			NO	Land identification is under progress	----	----		DPR for Rs. 5466.00 Lakhs submitted to the Govt. for according approval vide Ltr. No. 1916 Dtd : 28.10.2019
4	TP, Munavalli , Dist: Belagavi.	Munavalli			NO	Land identification is under progress	----	----		DPR for Rs. 6876.00 Lakhs submitted to the Govt. for according approval vide Ltr. No. 1917 Dtd : 28.10.2019
5	TMC, Soudatti, Dist: Belagavi.	Soundatti			NO	Land identification is under progress	----	----		DPR for Rs. 10430.00 Lakhs submitted to the Govt. for according approval vide Ltr. No. 01 Dtd : 02.04.2019

ANNEXURE-II

ETP DETAILS

Sl No.	District	Name of the Industries	Water Consumption (WC) **KLD**	**Effluent generation**	**ETP Capacity**	**Mode of disposal**
1	Belagavi	Laila sugars Kuppatagiri Khanapur	250	250	250	On land Irrigation
2		Malaprabha (sugar unit) SSK M K Hubli	350	340	350	On land for Irrigation
		Malaprabha (Distillery unit) SSK M K Hubli	450	400	500	On land for Irrigation
3		Renuka Sugars Munavalli	1830	1200	1200	Reuse and onland for Irrigation
4		EID Parry Sugars Ramdurga	615	494	500	On land for Irrigation and reuse.
		Total	**3495**	**2684**	**2800**	

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	Total Gap with existing treatment facilities if any	Proposed action plan /facility to cover gap	Time limit	Remarks	Present Status

Hence there is no gap for the treatment of industrial effluent as there is adequate ETP capacity.

ANNEXURER-III

TP Khanapur	Dry Waste, Wet Waste, Plastic Waste, C & D Waste, House hold Hazordous Waste	6 TPD	6 TPD	Disposal 6 TPD At Mansapur village R.S. No. 143	---	Yes	April-2021	—	
TP M.K. Hubli	Dry waste, Wet waste , Hazardous waste	6 T/Day	5 T/Day	SWM Site Honnidbba sarve No 46	-	-	3 Monts	M. K Hubballi Newly Upgraded Town Panchayat and Landfill site has been identyfied Proposal has been sent to Tahashildar Office Kiittur shortly we will do 100% process as per SWM 2016 Guidelins.	
TMC Soundatti	Dry Waste, Wet Waste, Plastic Waste, E-Waste, Hazordous Waste	12	11	Windrow and Vermi composting.	SWM Site 7 KM away from Saundatti. 8 Acre 27 Gunta.	Segregation Machine to be procured as per DPR	6 month	-	Working.
TP Munavalli	Wet waste, Dry waste, Plastic Waste , e waste Hazardous waste Drain Silt waste	0.9 MT	0.9 MT	0.9 MT Madlur Road S.W.M Site	0.2.5 MT	-	December -2020	Munavalli is Newly Upgraded TMC recent 9 month back purchased Land fill site Shortly we will do 100% Processing as per S.W.M 2016 Guidelines.	
TMC Ramdurg	Wet and Dry waste,	14.51 MTD	14.51 MTD	SWM site near turanur village windrow and vermicompostin g method 9.16 acres	5km	--	6 months	SWM site ramdurg town is situated near Turnur Village as due to flood in year 2019 and 20 also that water from Malaprabha river is affected the SWM site is also the waste from SWM site is floated to Turnur village also so large public to said village are agitating to shift the SWM site. In connection with these circumstances the total works allocate for development of SWM site are not started yet so the processing facility is slow in this regard.	

Annexure-IV

Latest water quality of polluted river, drains with flow details and ground water quality in the catchment of polluted

River Progress/Status Report of the River/PRS water quality monitoring for the Month (August-2020):

Stn. No.	Name of the Location	Parameters					
		Dissolved Oxygen	BOD	Total Coliforms	Fecal Coliforms	Fecal Streptococci	Conductivity

		mg/l	mg/l	MPN/100 ml	MPN/100 ml	MPN/100 ml	Umhos/cm
1187	D/s of Khanapur	7.1	1.3	900	500	350	130
1164	Hubli-Dwr Water abstraction point at Soundatti	7.0	0.8	1600	900	350	210

Note: Drains, nalas and Ground waters are monitored quarterly; hence samples are not collected during August-2020.

Annexure-V

Preventing dumping of waste

Priority	Sl. No	Length (Km)	River Name	RSEO	District/ RO	Polluted Stretch	Hazardous Waste Generated	Hazardous Waste Treated	Bio-Medical Waste Generated	Bio-Medical Waste Treated	Plastic Waste Generated	Plastic Waste Treated	Solid Waste Generated	Solid Waste Treated
III	1	80	Malaprabha	Dharwad	Belagavi	Khanapur to Ramdurg	0.00335 KLPD	0.00335 KLPD	180 Kg/day	180 Kg/day	170 Kg/day	stored in land fill site and proposed to handover to Cement Industry for coincineration.	39.4 MT/day	20% composting. 80% is dumped in land fill site.

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KARNATAKA STATE POLLUTION CONTROL BOARD

Name of the River : Netravathi and Kumaradhara
Polluted river stretch : Netravathi and Kumaradhara (55 KM)
Priority : V
Status as on : September 2020

Sl.No.	Activity to be monitored	Timeline	Submission of Progress by State/UT- Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	Before 31.03.2023.	Quantity of total Sewage generation- 13.23MLD Quantity of total Sewage Treated- Nil
	commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	Before 31.03.2023.	No Existing STPs in Bantwala and Belthandy TMC Bantwala is taken up UGD is und,ei progress
2	Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning	Before 31.03.2023.	
5	Chief Seeretaries may set up appropriate monitoring mechanism at State level • Specifying accountabi)ity of nodal authorities not below the Secretary level • Chief Secretaries may have an accountable person attached intheir office for this purpose.		
	• Monitoring at State level must take place		
6	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti • Member Secretary, CPCB		——---

6.1	Progress Report may be comprised of details along with completion timelines on:	
	(i) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment.	Completed and submitted to the Boa,rb, office along with River rejuvenation plan.,
	(ii) Status of STPs. I&D and sewerage networks Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline	Quantity of total Sewage generation- 13.23MLD Quantity of total Sewage Treated- Nil No Existing STPs in Bantwala and Belthandy TMC Bantwala is taken up UGD is undei progress
	(iii) Status of CETPs Details of Existing CETP and ETP Infrastructure Gap Analysis, Proposed along with completion timeline, No. of industries and complying status	Not applic;tble
	(**) Status of Solid Waste Management & Details of Processing Facilities	Total Solid waste generation- 18.55 UT/day (2 local Bodies and 2 Grain Panchyath's).
	(iv) Details of Existing Infrastructure,Gap Analysis, Proposed along with completion timeline.	
	{vi). Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river:	Enclosed

	vii). Preventing dumping oJ waste and scientific waste management including bio-medical wastes plastic wastes a,nd decentralizing waste processing, including waste generated from hotels, asl›rams, etc.		Directed to inline departments to address the llegal disposal of municipal plastic and bio medical waste particularly in drains and take action against the violators
	(viii). Ground water regulation Adopting good irrigation practices		As per assessment of dynamic Ground water resources of Karnataka State (2012-13) Puttur Taluk is coming under Critical stage.
	(ix). Protection and management of Flood Plain Zones(FPZ),		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.
	(x). Rain water harvesting, Maintaining minimum environmental flow of river		Gazing station at Bantwala
	(xi). Plantation on both sides of the river (xii). Setting up biodiversity parks on flood plains by removing encroachment		Directions given tc agricultural/irrigation department to organize awareness programmes ir farmers to conserve water and good irrigation practices to be adopted

ENVIRONMENTAL OFFICER
KSPCB, MANGALURU

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KARNATAKA STATE POLLUTION CONTROL BOARD

Name of the River : Shimsha
Polluted river stretch : Yediyur to Halagur bridge (80 KM)
Priority : V
Status as on : September 2020

Sl. No	Activity to be monitored	Timeline	Submission of Progress State/UT-Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	Action has been initiated by UDD, GoK to train the 35 ULBs on in-situ treatment, viz. phytoremediation and wet-land treatment.
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	KUWS&DB: Project proposal for the commencement of setting up of STPs at an estimated cost of ₹1690 crores has been submitted to GoK for approval. ₹100 crore provision has been made for 2020-21 budget.
2	Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning	31.03.2021	KUWS&DB: 24 months from the date of handing over of the required land from the ULBs for STP construction and I&D works
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary level	22.01.2020	State level River Rejuvenation Committee (RRC) is constituted by GoK on 24/11/2018 under the Chairmanship of Principal Secretary to Government (Ecology and Environment). MS, KSPCB; Director, DIC and Director, DMA are the members of the committee. A monitoring cell is directly working under the Chief Secretary's Office, since 18/03/2020.
	• Chief Secretaries may have an accountable person attached in their office for this purpose.	22.01.2020	
	• Monitoring at State level must take place	Fortnightly Commencing 21- 12-2019	4th RRC meeting was held on 11/03/2020 under the Chairmanship of The Principal Secretary to Government (Ecology and Environment). Regular meetings will be conducted to review the progress.

<table>
<tr><td>4</td><td>Progress report may be furnished by the States/UTs to
• Secretary, Ministry of Jal Shakti
• Member Secretary, CPCB</td><td>Monthly (preferably before 20° of every month)</td><td>Progress report for the period up to August 2020 is as submitted.</td></tr>
<tr><td>6.1</td><td colspan="3">Progress Report may be comprised of details along with completion timelines on:</td></tr>
<tr><td>(i)</td><td>Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment</td><td></td><td>1 drain is identified & monitored. The sullage effluent is having BOD & TC count in excess of the standards. The said drain is to be connected to nearby wetwell to pump the same to the STP. Work to completed by 30-03-2021.</td></tr>
<tr><td>(ii)</td><td><u>Status of STPs. I & D and sewerage networks</u> : Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline</td><td></td><td>TMC Maddur :
Existing infrastructure: 3.5 MLD
Gap: Nil
Proposed : 2.5 MLD
Proposed along with Completion Timeline: 14-04-2022 DPR for Rs. 50.15 Crores is approved and work order is issued on 15-04-2020.

<u>Status of I&D works</u> :
<table>
<tr><td>Existing</td><td>Proposed</td></tr>
<tr><td>Nil</td><td>1 drains carrying sullage effluent is to be connected to STPs.
No Work Progress</td></tr>
</table>
<u>Status of Sewerage works</u>:
<table>
<tr><td>Existing</td><td>Proposed</td></tr>
<tr><td>60% of the area covered with UGD & further work in progress</td><td>House to house connection to sewer networks is yet to be undertaken</td></tr>
</table>
<u>Present Status</u>: 3.5 MLD STP is in operation and there is no gap. Proposed to provide 2.5 MLD for connecting new layouts and missing link is yet to be taken up.

The Status of STPs, I&D and Sewerage Networks is shown in <u>Annexure-1</u></td></tr>
</table>

(iii)	**Status of CETPs** Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status		There are no CETPs in the polluted river stretch. The industries in this stretch are treating the sewage & trade effluent in their own captive sewage treatment and effluent treatment plants.
(iv)	**Status of Solid Waste Management** & Details of Processing Facilities Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		There is 1 number of local bodies i.e. TMC Maddur generating solid waste 10 TPD and exhibits the gap of 8.0 TPD with generation & existing treatment facilities. Work order has bee issued on 23-03-2020 for Rs. 4.10 Crores +12%GST for establishment of integrated development of solid waste processing and disposal facility at landfill site. **Status of Solid Waste Management & Details of Processing Facilities is shown in Annexure-2.**
(v)	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		**6.1(v) No flow in the river for the month of June, July and Agu-2020. Hence, river water samples could not collected.**
(vi)	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams, etc.		**Bio Medical Waste**: The HCEs located on polluted river stretch are collecting & disposing the BMW to the operator of CBMWTF & the non bedded HCEs i.e., Veterinary institutions the same through deep burial / sharp pits. Implementation of Bar code practice and to ensure proper collection & disposal of BMW to operator of CBMWTF from the entire HCEs. **Plastic Wastes** As per State Government Order complete ban of use of Plastic carry bags of irrespective size & thickness is enforced in all the polluted river stretch by the respective LBs and GPs. There are no Plastic bags manufacturing industries in the polluted river stretch and also there are no producers, brand owners and plastic waste recycling industries in the polluted river stretch. However, the LBs have submitted action plan for collection and disposal of plastic wastes from Dry waste collection centres in to the respective recyclers and also explore the possibilities of disposing un-recycled plastics including compost rejects to cement kilns. Action plan is submitted to implement the same by March 2021.
(vii)	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 by March 2021.

			<u>Status of Ground Water Resource Assessment in Annexure-4</u>
(viii)	Adopting good irrigation practices,		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.
(ix)	Protection and management of Flood Plain Zones(FPZ),		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 near by 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 by March 2021.
(x)	Rain water harvesting,		
(xi)	Maintaining minimum environmental 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.
(xii)	Plantation on both sides of the river		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.
(xiii)	Setting up biodiversity park on flood plains by removing encroachment		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. The status of the existing and proposed bio diversity parks and its implementations will be executed by March 2021 in coordination with the Forest Department.

Sd/-
Environment Officer,
RO, Mandya

ANNEXURE-1

6.1 (ii) Status of STPs., I&D and sewerage networks

Name of the LBs	Status of STPs Existing infrastructure		Status of I&D works		Gap analysis	Sewerage works		Proposed along with completion timeline
	Existing	Proposed	Existing	Proposed		Existing	Proposed	
TMC Maddur	3.5 MLD	2.5 MLD	Nil	1 drain carrying sullage effluent is to be connected to nearby wetwell to pump the sewage in to STP.	Nil	60% of the area covered with UGD & further work in progress	House to house connection to sewer networks is yet to be undertaken	DPR for Rs. 50.15 Crores is approved and work order is issued on 15-04-2020. Proposed to complete the same by 31-03-2021

ANNEXURE-2

6.1 (iv) Status of Solid Waste Management & Details of Processing Facilities

Local Bodies	Types of Waste / Characteristic of waste	Generated Quantity/ day	Collection / Storage facility with capacity	Disposal/ Treatment facility with capacity along with location	Total Gap with generation & existing treatment facilities if any	Proposed action plan /facility to cover gap	Time limit	Remarks
TMC Maddur	Domestic Solid Waste	10	12	Land fill	8.0	DPR is approved for processing entire MSW.	March 2021	DPR for Rs. 4.10 Crores 12 % GST work order issued on 23-03-2020.

ANNEXURE-4

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
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 by states/UTs

(Hon'ble NGT in the matter of OA No.673/2018, Date: 06/12/2019)

KARNATAKA STATE POLLUTION CONTROL BOARD

Name of the River : Tunga
Polluted river stretch : Shivamogga to Kudli (10 KM)
Priority : V
Status as on : September 2020

Sl.No.	Activity to be monitored	Timeline	Timeline Submission of Progress by State/UT-Compliance Status
6.1	Progress report maybe comprised of the details along with completion timelines on:		
i.	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment		Polluting sources are identified and listed in river rejuvenation action plan and submitted to Board Office.
ii.	**Status of STPs, I&D and sewerage networks** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline	31th March 2021	Exsiting 35.58 MLD STP at Thyvarechatnhalli is under operation. The 5.13MLD STP at Purle Village and UGD Works are under progress.
iii.	**Status of CETPs** Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status	-	Not Applicable
iv.	Status of Solid Waste Management & Details of Processing Facilities Details of Existing Infrastructure, Gap Analysis, Proposed along		Total Solid Waste Generation from CC Shivamogga is about 169 TPD. The City Corporation Shivamogga is Collecting

	with completion timeline		Solid waste from door to door. The CC has reported that they have carried out segregation in some wards. The wet waste is composting using Windrow method in the existing solid waste disposal site.
v.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		Samples are collected and Results also Submitted along with Action Plan. This Office is collecting the River Water Samples every month and results are enclosed.
vi.	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams, etc.		The Shivamoga District is having CBMWTF at Machenahalli industrial area. The BMW generated from Health Care Establishment are disposed to CBMWTF for further treatment. The Local Bodies are carrying out regular Plastic raids in Shivamogga City. The CC, Shivamogga has started campaign for Pipe Composting and Govt Residential Quarters and other residential Buildings have started the Pipe Composting.
vii.	Ground water regulation		District Ground Water Office has reported that Shivamogga Dist lies under safe zone (There is no over exploited Taluk)
viii.	Adopting good irrigation practices,		Adoptation of micro irrigation practices such as drip/sprinkler
ix.	Protection and management of Flood Plain Zones (FPZ),		Flood plain zone encroachment details sought by the Revenue Department
x.	Rain water harvesting		Shivamogga Urban Development Authority

			(SUDA) is insisting residential Buildings/ Commercial Buildings to adopt Rain Water Harvesting in its approval.
xi.	Maintaining minimum environmental flow of river		Karnataka Water Resources Department is the concern Department and it is maintaining the flow as per the Norms
xii.	Plantation on both sides of the river		The Deputy Commissioner informed the Forest Department Officers to take suitable action for plantation in flood plain zone.
xiii.	Setting up biodiversity parks on flood plains by removing encroachment		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.

ENVIRONMENTAL OFFICER
KSPCB,SHIVAMOGGA

National Mission for Clean Ganga
Format for Submission of monthly Progress report by states/UTs
(Hon'ble NGT in the matter of OA No.673/2018, Date: 06/12/2019)
KARNATAKA STATE POLLUTION CONTROL BOARD

Name of the River : Tungabadhra
Polluted river stretch : Harihara to Haralahalli (60 KM)
Priority : III
Status as on : September 2020

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by State/UT-Compliance Status
6.1	Progress report maybe comprised of the details along with completion timelines on:	31.12.2020.	In the progress report these points were included
i.	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment.	31.12.2020.	Polluting sources are identified and listed in river rejuvenation action plan and All CC and CMC's were informed to stop the discharge of drains to river.
ii.	**Status of STPs, I&D and sewerage networks** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline	31.12.2020	**Harihara CMC**: 18 MLD capacity new STP construction completed. 120 KM length sewerage network completed. 05 wet wells construction completed, 4632 house service connection completed. Remaining 15336 will be completed by DEC-2020 & STP will be commissioned by DEC-2020. **Davangere CC** has provided STPs of 14.8 MLD, 20MLD, 20MLD and 5MLD capacities in order to treat the overall sewage generation of 45 MLD using WSP, SBR, FSL technologies. And treated sewage was used for Onland irrigation and agricultural purpose. **Honnali TP**: STP of 3.3 MLD has been constructing in the town for the treatment of 2.37 MLD Sewage generated from the town. Presently no sewage colleted in STP due to missing links in Town, STP is under commissioning by KUWSS&DB Davangere.

iii.	**<u>Status of CETPs</u>** Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status	-- -- --	No CETP existing in Harihara CMC and Davangere CC. ETPs of Harihara Polyfibers and Grasiline industries were complied with their Consent conditions. Some portion of the treated wastewater is used for onland irrigation and some portion is discharged to River.
iv.	Status of Solid Waste Management & Details of Processing Facilities Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline	31.12.2020	**Harihara CMC:** At present 25 to 30 TPD waste is generating and out of this around 20-30% of waste is being processed by vermin composting, windrow composting, collection of recyclable materials, disposal of waste by both engineering pit method and sanitary land filling. **Davanagere City Corporation** operates its Solid waste processing and disposal site at Avargere village comprising of 33.19 acres. The facility includes infrastructure like internal CC roads, Compound wall, Window composting platform, Vermi composting yard, Weigh bridge, 50 TPD Screening machine (6 mm), staff room, street lighting, processing shed, leachate collection tank, overhead water tank and sump. The city generates 168 TPD of MSW.
v.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		Tungabadra river water sample analysis report, lakes water samples analysis report enclosed. Ground water sample analysis report enclosed.
vi.	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams, etc.		At Present Bio Medical Wastes of Davangere and Harihara were being treated @ CBMWTF, Amaravthi village as per the rules MSW generated is being processes @ SWM site by windrow compositing, baling of recyclable materials. Under SBM scheme dry waste collection center will be constructed. Tender finalized & Work order issued.
vii.	Ground water regulation	- -	NA

viii.	Adopting good irrigation practices		**NA**
ix.	Protection and management of Flood Plain Zones (FPZ)	-	**NA**
x.	Rain water harvesting	31.12.2020	Davangere and Harihara Urban Development Authority (DHUDA) and Smart City Associations were insisting residential Buildings/ Commercial Buildings to adopt Rain Water Harvesting in its approval.
xi.	Maintaining minimum environmental flow of river	-	NA
xii.	Plantation on both sides of the river	-	This is being done by forest dept.
xiii.	Setting up biodiversity parks on flood plains by removing encroachment	-	There is no encroachment on flood plains in Harihara CMC and Davangere CC limits.

Sd/-
Environmental Officer
KSPCB, Davangere.

National Mission for Clean Ganga

Format for Submission of monthly Progress report by states/UTs

(Hon'ble NGT in the matter of OA No.673/2018, Date: 06/12/2019)

KARNATAKA STATE POLLUTION CONTROL BOARD

Name of the River : Yagachi

Polluted river stretch : Beluru to Halavagillu (60 KM)

Priority : V

Status as on : September 2020

Sl. No.	Activity to be monitored	Timeline	Submission of Progress by Local Bodies- Compliance Status up to 31.08.2020		
			CMC Hassan	TMC Belur	Latest Progress Report as on 31.08.2020
1	Ensure 100% treatment of sewage at least in-situ remediation	31.03.2020	Provided 10 MLD STP for the treatment of 19.56 MLD sewage effluent & the said STP is put in to operation. Proposed to provide 29 MLD for up-gradation of existing STP and also to put up new STP and also to connect missing links and sewage network for new places at a cost of Rs.165Crores. The works will be completed by March-2021.	Provided 2.7 MLD STP for the treatment of 2.84 MLD sewage effluent & the said STP is put in to operation. Sewer network for the entire town is completed & the house to house connection is under operation.	There is no progress during this period.
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of sewage to the STPs must be ensured	31.03.2020	-do-	-do-	-do-
2	Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning	31.03.2021	31.03.2021	31.03.2021	31.03.2021
3	Chief Secretaries may set up appropriate monitoring mechanism at State level • Specifying accountability of nodal authorities not below the Secretary level	22.01.2020	--	--	-
	• Chief Secretaries may have an accountable person attached in their office for this purpose.	22.01.2020	--	--	-
	• Monitoring at State level must take place	Fortnightly Commencing 21,12.2019	--	--	-
4	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti	Monthly (preferably before 20° of every month)	--	--	-

<table>
<tr><td></td><td>• Member Secretary, CPCB</td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td>Progress Report may be comprised of details along with completion timelines on:
(i) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment</td><td></td><td>1 drain is identified & monitored. The sewage & sullage effluent is having BOD & TC count in excess of the standards. The said drain is to be connected to STP.</td><td>1 drain is identified & monitored. The sewage & sullage effluent is having BOD & TC count in excess of the standards. The said drain is to be connected to STP.
.</td><td>There is no progress during this period.</td></tr>
<tr><td></td><td>(ii) <u>Status of STPs.I&D and sewerage networks</u> Details of Existing Infrastructure,
Gap Analysis, Proposed along with completion timeline</td><td colspan="3"><table>
<tr><th rowspan="2">Name of the LBs</th><th colspan="2">Status of STPs Existing infrastructure</th><th colspan="2">Status of I&D works</th><th rowspan="2">Gap analysis</th><th colspan="2">Sewerage works</th><th rowspan="2">Proposed along with completion timeline</th></tr>
<tr><th>Existing</th><th>Proposed</th><th>Existing</th><th>Proposed</th><th>Existing</th><th>Proposed</th></tr>
<tr><td>CMC Hassan</td><td>10.0 MLD</td><td>29 MLD</td><td>Nil</td><td>1 drain carrying sewage & sullage effluent is to be connected to STP</td><td>9.56 MLD</td><td>85% of the area covered with UGD & further work in progress</td><td>Work of laying UGD network for remaining area is under progress.</td><td>31-03-2021 DPR for Rs. 165 Crores is submitted for approval to Govt.</td></tr>
<tr><td>TMC, Belur</td><td>2.7 MLD</td><td>7MLD</td><td>Nil</td><td>1 drain1s carrying sullage effluent is to be connected to STP</td><td>0.14 MLD</td><td>75% of the area covered with UGD & further work in progress</td><td>Work of laying UGD network for remaining area is under progress</td><td>31-03-2021. DPR for Rs. 43 Crores is submitted for approval to Govt.</td></tr>
</table></td><td>There is no progress during this period.</td></tr>
<tr><td></td><td>(iii) <u>Status of CETPs</u>
Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status</td><td colspan="3">a) There are no CETP in the jurisdiction of Polluted River Stretch Yagachi from Belur to Halavagilu.
b) There are no major industrial Areas/estates in the polluted river stretch except Thimmanahali Industrial estate in Hassan which is having 5 small scale industries not significant from water pollution pint of view. However, the sewage & sullage effluents from the industrial estates is disposed off in to common septic tank and soak pit and ONE industry is has provided STP of capacity 10KLD and utilizing the treated sewage effluent into onland for irrigation within the premises.</td><td>-</td></tr>
<tr><td></td><td>(iv) <u>Status of Solid Waste Management & Details of Processing Facilities</u>
Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline</td><td colspan="3"><table>
<tr><th>Local Bodies</th><th>Types of Waste / Characteristic of waste</th><th>Generated Quantity/ day</th><th>Collection / Storage facility with capacity</th><th>Disposal/ Treatment facility with capacity along with location</th><th>Total Gap with generation & existing treatment facilities if any</th><th>Proposed action plan /facility to cover gap</th><th>Time limit</th><th>Remarks</th></tr>
<tr><td>CMC Hassan</td><td>Domestic Solid Waste</td><td>62</td><td>11</td><td>Land fill</td><td>51</td><td>DPR is approved for processing entire MSW</td><td>March 2021</td><td rowspan="2">Till establishment of complete processing facility all the LB are informed to dispose the existing solid waste in the land fill site identified.</td></tr>
<tr><td>TMC, Belur</td><td>-do-</td><td>8</td><td>1</td><td>-do-</td><td>7.0</td><td>-do-</td><td>-do-</td></tr>
</table></td><td>-</td></tr>
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				Total	**70**	**12**			**58.0**								

(v)	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;	**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)**		-
					Min	**Max**	**Min**	**Max**	**Min**	**Max**	**Min**	**Max**	
		1	Yagachi, Haluvagilu pump house, Hassan	2017-18	6.2	7.8	2.0	**3.0**	110	940	2200	5400	
				2018-19	4.6	6.8	2.0	**3.0**	140	260	1700	3500	
				2019-20	4.6	6.1	2.0	**3.0**	170	450	1700	4600	
				2020-21	**6.5**	-	**2.0**	-	**330**	-	**2200**	-	
		2	Yagachi river, Belur (abt 200mtrs from STP)	2019-20	2.6	4.1	5.0	**3.0**	330	1400	5400	7900	
				2020-21	4.4	-	3.2	-	940	-	5400	-	

(vi)	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams, etc.	**Bio Medical Waste**: The HCEs located on polluted river stretch are collecting & disposing the BMW to the operator of CBMWTF & the non bedded HCEs i.e., Veterinary institutions the same through deep burial / sharp pits. Implementation of Bar code practice and to ensure proper collection & disposal of BMW to operator of CBMWTF from the entire HCEs **Plastic Wastes** As per State Government Order complete ban of use of Plastic carry bags of irrespective size & thickness is enforced in all the polluted river stretch by the respective LBs and GPs. There are no Plastic bags manufacturing industries in the polluted river stretch and also there are no producers, brand owners and plastic waste recycling industries in the polluted river stretch. However, the LBs have submitted action plan for collection and disposal of plastic wastes from Dry waste collection centres in to the respective recyclers and also explore the possibilities of disposing un-recycled plastics including compost rejects to cement kilns. Action plan is submitted to implement the same by March 2021. Action is being initiated by the LBs for collection and disposal of solid wastes generating from Hotels and Ashramas located on Polluted river stretch.	There is no progress during this period.

(vii)	Ground water regulation	**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**	-do-
		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. In respect of semi critical area action plan will be executed with the District Administration to restore the Ground Water Table by March 2021.							

(viii)	Adopting good irrigation practices,	The Dept. of Agriculture has submitted action plan for implementation of following measures. • General Government Practice of Irrigation is maintained in the Hassan and Belur Taluks. • Farmers are made aware to use water optimally.	-do-
(ix)	Protection and management of Flood Plain Zones(FPZ),Rain water harvesting,	The Department of Revenue and Irrigation have prepared District Disaster Management Plan for the Flood Plains of river Cauvery which is also covered under polluted river stretch. The people of the polluted river stretch 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 by March 2021	-do-

(x)	Maintaining minimum environmental flow of river	**Year**	**Hydrological observation site**	**Flow (m3/s)**		-do-
				Min	**Max**	
		2015-16	Belur	100	200	
		2016-17		NIL	NIL	
		2017-18		NIL	NIL	
		2018-19		25	2000	
		2019-20		100	34000	
		The Cauvery Neeravari Nigagam Ltd., is requested to submit the action plan as per MoEF & CC norms during monsoon seasons 30% of annual yield @ 75% dependability shall be require to be released in the D/S of each dam site for environment purpose & the same is yet to				

			be submitted. However, the details of the same is incorporated and reviewed in the District Surveillance Committee within March 2021	
	(xi)	Plantation on both sides of the river	The Forest Department is requested to submit the action plan for the plantation/vegetation cover along the river stretch. The status of the existing and proposed plantations/vegetation and its implementations will be executed by March 2021 in coordination with the Forest Department.	-do-
	(xii)	Setting up biodiversity parkson floodplains by removing encroachment	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 March 2021 in coordination with the Forest Department	-do-