National Mission for Clean Ganaga

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 : Asangi

Polluted river stretch : Asangi (33 Km)

Priority : P- V

Status as on : July 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	31.03.2020	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 Secretary level • Chief Secretaries may have an accountable person attached in their office for this 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. • A monitoring cell is directly working under the Chief Secretary's Office, since 18/03/2020.
	• 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.
6.	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti Member Secretary, CPCB		Progress report for the period up to July 2020 is as submitted.
6.1	Progress report maybe comprised of the details along with completion timelines on:	Monthly (preferably before 20th of every month)	Three number of draines are identified and monitored regularly. They are as follows Rabakavi-Banahatti at Asanagi, Terdal Nala and Jamakhandi Nala.
i.	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment		
ii.	**Status of STPs, I&D and sewerage networks** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		The CMC, Rabakavi-Banahatti authorities encloses STP of capacity 9.2 MLD and is under commissioning process.
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 7 number of effluent generation industries have captive ETPs and total capacity of the captive ETP is 2.75 MLD. There are no CEPT's.
iv.	Status of Solid Waste Management & Details of Processing Facilities Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		The Solid waste generation 26 TPD at Rabakavi- Banahatti, Teradala & TSD.
v.	Latest water quality of polluted river, its tributaries, drains with flow		River water quality belongs to the **Class –C,**

	details and ground water quality in the catchment of polluted river;		
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.		Total collection and treatment of the bio-medical waste -18 Kg/Day. There are 7 No's of Hazardous waste generating industries in the polluted river stretch and is monitored.
vii.	Ground water regulation		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,		Awareness programs in micro irrigation to farmers have been carried out regularly by Agriculture Departments of water resources.
ix.	Protection and management of Flood Plain Zones (FPZ),		Regular works are carried out under the directions of Karnataka State Forest Department.
x.	Rain water harvesting		Urban Development Authority 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		There is no encroachment on flood plains in River belt.

National Mission for Clean Ganaga

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

KARNATAKA STATE POLLUTION CONTROL BOARD

Name of the River : Bhadhra

Polluted river stretch : Bhadravathi to Holehonnur (10Km)

Priority : P- IV

Status as on : July 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 Secretary level • Chief Secretaries may have an accountable person attached in their office for this 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. • A monitoring cell is directly working under the Chief Secretary's Office, since 18/03/2020.
	• Monitoring at State level must take place	Fortnightly Commencin	4th RRC meeting was held on 11/03/2020 under the Chairmanship of The Principal

		g 21.12.2019	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 Shakti Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Progress report for the period up to July 2020 is as submitted.
6.1 i.	Progress report maybe comprised of the details along with completion timelines on: Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment		Six number of drains are identified.
ii.	**Status of STPs, I&D and sewerage networks** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		Existing STP is of the capacity 5.83 MLD, 1 more STP is proposed. SBR Technology at Ujjanipura is under construction. Applied for one more CEF for STP of capacity 7.2 MLD,WSP Technology constructions is completed.
iii.	**Status of CETPs** Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status		3 number of effluent generation industries identified, the total capacity ETPs is 87400 KLD Bhadra pack aids is recycling waste water and complying.
iv.	Status of Solid Waste Management & Details of Processing Facilities Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		Total Solid Waste Generation from CMC Bhadravathi is 53.8 TPD. The CMC Bhadravathi is Collecting Solid waste from door to door. The CMC has reported that they have carried out segregation in all 35 wards. The wet waste is composted in the existing solid waste disposal site, the dry recyclable waste are

			segregated and sent to recyclers.
v.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		River water quality belongs to Class: D. Bore-well water quality is confirming to the standards.
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 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		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,		Awareness programs in micro irrigation to farmers have been carried out regularly by Agriculture Departments of water resources.
ix.	Protection and management of Flood Plain Zones (FPZ),		The details are awaited from the district local bodies.
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.

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

KARNATAKA STATE POLLUTION CONTROL BOARD

Name of the River : Bhima

Polluted river stretch : (Ghanagapur to Yadgir - 160km)

Priority : V

Status as on : July 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 Secretary level • Chief Secretaries may have an accountable person attached in their office for	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. • A monitoring cell is directly working under the Chief Secretary's Office, since

	this purpose.		18/03/2020.
	• 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.
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)	Progress report for the period up to July 2020 is as submitted.
6.1	Progress report maybe comprised of the details along with completion timelines on:		5 drains have been identified. Chinna Hagari near Kudlgi Village, drains joining at Nelogi, Harwal and Kattisangavi Villages in Kalaburagi and drain which carries sewage from Yadgir town.
i.	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment		
ii.	**Status of STPs, I&D and sewerage networks** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		One STP of 3.25MLD. UGD is under construction. TMC Jewargi has submitted commitment letter stating that the UGD and STP will be operational in next one year time.
iii.	**Status of CETPs** Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status		CETP is not required. No industries are located on Bhima river bank which are discharging effluent to the river.
iv.	Status of Solid Waste Management & Details of Processing Facilities Details of Existing Infrastructure,		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

	Gap Analysis, Proposed along with completion timeline		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.
v.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		No water quality details have been mentioned. 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. Three borewell samples have been tested and are not meeting with the water quality standards.
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
vii.	Ground water regulation		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.	Protection and management of Flood Plain Zones (FPZ),		Concerned authorities have been informed to take appropriate action.

x.	Rain water harvesting		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 the river		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 removing encroachment		Bio-diversity Management Committes (BMC) in individual ULBs is identifying the parks that can be converted into bio-diversity parks.

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(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 : Mullur to Satthegala Bridge (80Km)

Priority : P- III

Status as on : July 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 Secretary level • Chief Secretaries may have an accountable person attached in their office for this 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. • A monitoring cell is directly working under the Chief Secretary's Office, since 18/03/2020.
	• Monitoring at	Fortnightly	4th RRC meeting was held on

	State level must take place	Commencing 21.12.2019	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 Shakti Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Progress report for the period up to July 2020 is as submitted.
6.1	Progress report maybe comprised of the details along with completion timelines on:		Total 18 number of drains are identified & monitored. The sullage effluent is having BOD & TC count in excess of the standards.
i.	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment		
ii.	**Status of STPs, I&D and sewerage networks** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		There exists STP with capacity 3.3 MLD. On more STP of capacity 5.57 is proposed. Laying UGD network is in progress & after completion of the same sewage discharge in to storm water drain is avoided.
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 CETP in the jurisdiction of PRS Muller to Satthegala Bridge There are no major industrial estates in the polluted river stretch.
iv.	Status of Solid Waste Management & Details of Processing Facilities Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		Total solid waste generated is 52.97 among which 48.3 exhibits the total gap with generation and existing treatment facilities.

v.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		Annexure -2
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.
vii.	Ground water regulation		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,		The Dept. of Agriculture has submitted action plan for implementation of following measures. • General Government Practice of Irrigation is maintained in the Kollegala Taluk. • Farmers are made aware to use water optimally. The Dept of Irrigation, Kollegala Taluk has prepared DPR for Rs. 20 Crores for modernization of existing canals system. This will be implemented by March 2021
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 this 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
x.	Rain water harvesting		Water resource dept is encouraging rain water harvesting through education, regulation, incentives and disincentives.
xi.	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 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
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 Cauvery which specifies the plantation of saplings in Kollegala Taluk proposed for plantation in 14.5 Kms in the ensuing monsoon seasons. This will be complied within time frame of March 2021.
xiii.	Setting up biodiversity parks on flood plains by removing encroachment		Bio-diversity Management Committes (BMC) in individual ULBs is identifying the parks that can be converted into bio-diversity parks.

Annexure -1

Sl. No.	Details of Water Quality Monitoring locations as per NWMP	Year	DO (mg/l)		BOD (mg/l)		Fecal Coliform (MPN/100 ml)		Total coliform (MPN/100 ml)	
			Min	Max	Min	Max	Min	Max	Min	Max
1	D/S of river Cauvery near Mullur Village, Kollegala Taluk, Chamarajanagar District	2019	5.5	7.3	1.2	**3.0**	110	340	840	1300
		2020	**5.5**	**7.9**	**1.2**	**1.8**	**120**	**580**	**540**	**1500**
2	D/S of Cauvery river near Dasanapura Village, Kollegala Taluk, Chamarajanagar District	2017	5.5	6.9	1.48	**3**	220	330	2100	1200
		2018	5.6	7.1	1.0	**2.64**	130	380	940	1500
		2019	5.8	7.1	1.1	**2.8**	260	490	1100	2100
		2020	**6.0**	**7.1**	**1.3**	**2.5**	**130**	**490**	**840**	**1700**
3	D/S of Cauvery river near Sathegala Bridge,Kollegala Taluk, Chamarajanagar District	2017	5.5	7.2	1.0	**3**	200	460	1200	1700
		2018	5.5	7.2	1.0	**2.9**	92	270	940	1400
		2019	6.0	7.3	1.2	**2.3**	170	490	940	1400
		2020	**6.0**	**7.3**	**1.5**	**2.5**	**91**	**380**	**630**	**1400**

Annexure -2

District	Taluka	Net Annual Ground Water Availability (HAM)	Total Ground Water Draft (HAM)	Gap between availability and Draft (HAM)	Stage of Ground Water Development (%)*	Category
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. In respect of semi critical area action plan will be executed with the District Administration to restore the Ground Water Table by March 2021.

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(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 : Nanjangud to Hejjige village (9Km)

Priority : IV

Status as on : July 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.
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	• 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.

	• 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.
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)	Progress report for the period up to July 2020 is as submitted.
6.1 i.	Progress report maybe comprised of the details along with completion timelines on: Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment		6 drains are identified & monitored. The sullage effluent is having BOD & TC count in excess of the standards. Details are enclosed in Annexure-I
ii.	**Status of STPs, I&D and sewerage networks** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		Details are enclose in Annexure-II
iii.	**Status of CETPs** Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status		CETP not required. 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		Solid Waste Generation:26 TPD Solid Waste Treated:4TPD Gap:22TPD

	timeline		
v.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		River water quality belongs to class C. Ground water quality is complied.
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. 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. 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.
vii.	Ground water regulation		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,		The Dept. of Agriculture has submitted action plan for implementation of following measures. • General Government Practice of Irrigation is maintained in the Nanjangud Taluk. • Farmers are made aware to use water optimally.
ix.	Protection and management of Flood Plain Zones (FPZ),		Concerned authorities have been informed to take appropriate action.
x.	Rain water harvesting		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 the river		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 removing encroachment		Bio-diversity Management Committes (BMC) in individual ULBs is identifying the parks that can be converted into bio-diversity parks.

Annexure-I

Water quality of drains joining Kabini Polluted River Stretch in Nanjangud Talu, Mysuru District

Parameters	Units in	Standards as per IS 10500:2012 Drinking water standards		Results & Sampling Locations					
		AL	PL	Water sample collected from strom water drain at Kabini near rameshwara temple Debur Nanjungud	Bore well water sample collected from government Guest House Nanjungud	Sewage sample collected from Nanjungud town leading right bank of Kabini river near Hadinaru Kallu Mantapa Nanjungud Town	Sewage sample entering to Gundlu river and finally joins to Kabini river near Vokkalagere Nanjungud town	Sewage sample entering into Gundlu river and finally joins Kabini river at Rajaji Colony Nanjungud town	Water sample collected from strom water drain leading to river Kabini behind Miltary Camp Nanjungud
pH	Unit	6.5-8.5	No relaxation	7.7	7.6	7.2	7.1	7.4	7.4
Electric Conductivity	µmho/cm	-	NS	863	1195	1153	1206	1312	1712
Total disolved solids	mg/L	500	2100	640	860	840	930	960	1280
Total Suspended Solids	mg/L	NS	NS	4	2	70	110	90	40
Dissolved Oxygen	mg/L	NS	NS	5.8	8.5	NIL	NIL	2	5.3
Chemical Oxygen Demand	mg/L	NS	NS	148	18	199	258	189	85
Bio Chemical Oxygen Demand	mg/L	NS	NS	9.2	1	51.2	75	27	7.7
Total Hardnes $CaCO_3$	mg/L	200	600	336	472	456	472	512	672
Calcium as Ca	mg/L	75	200	70	93	90	99	101	131
Magnesium as Mg	mg/L	30	100	39	58	56	54	63	84
Total Alkalinity as CaCO3	mg/L	200	600	168	248	264	296	232	264
Chloride	mg/L	250	1000	92	128	124	136	128	220
Sulphate	mg/L	200	400	49	38	28	35	45	108
NITRATE as N	mg/L	45	No relaxation	1.3	1.6	2.3	9.8	16.5	10.9
Phosphate	mg/L	NS	NS	0.18	0.24	5.4	4.3	6.1	1.1
Ammonical	mg/L	0.5	No	1.8	BDL	4.5	5.9	3.57	2

Annexure-II

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 Nanjangud	7.0 MLD (Around 2.0 MLD Sewage is pumped to STP through wetwell)	1.72 MLD	Nil	6 drains carrying sullage effluent is to be connected to nearby wetwell to pump the sewage in to STP. 20% of the work is completed	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. 36.86 Crores is submitted for approval to Govt.

Format for Submission

KARNATAKA STATE POLLUTION CONTROL BOARD

Name of the River : Kagini

Polluted river stretch : Shahabad to Hongunta (10 Km)

Priority : P- IV

Status as on : July 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 Secretary level • Chief Secretaries may have an accountable person attached in their office for this 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. • A monitoring cell is directly working under the Chief Secretary's Office, since 18/03/2020.
	• 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.
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)	Progress report for the period up to July 2020 is as submitted.
6.1	Progress report maybe comprised of the details along with completion timelines on:		No of Drains: 1 One drain has been identified in the CMC of Shahabad. This drain is found joining the Kagina near Railway Bridge at Gola Village.
i.	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment		
ii.	**Status of STPs, I&D and sewerage networks** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		1 STP has been proposed. DPR is under progress. FSTP is proposed and also has been sanctioned by the government and hence UGD and STP work is kept pending.
iii.	**Status of CETPs** Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status		CEPT not required. No industries are located in the banks of the River Kagini.
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 17.44 MT/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 composed by local body in the designated/ authorized solid waste processing site.
v.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of		River water quality belongs to Class: C. Borewell water quality does not meet the standards.

	polluted river;		
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 a **Common Bio- medical Water Treatment Facilities** (CBWTF) at Kalburgi. The Bio-medical wastes generated has been collected and scientifically disposed through this CBWTF. Plastic has been segregated by the Local Body ad sent to cement industry for co-processing in cement kiln.
vii.	Ground water regulation		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.	Protection and management of Flood Plain Zones (FPZ),		Concerned authorities have been informed to take appropriate action.
x.	Rain water harvesting		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 the river		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 removing encroachment		Bio-diversity Management Committes (BMC) in individual ULBs is identifying the parks that can be converted into bio-diversity parks.

National Mission for Clean Ganaga

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 : Kali

Polluted river stretch : Hasan Maad (west coast paper mill) to Bommanahalli Reservoir (10 Km)

Priority : IV

Status as on : July 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.
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	• 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.
	• 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.
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)	Progress report for the period up to July 2020 is as submitted.
6.1 i.	Progress report maybe comprised of the details along with completion timelines on: Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment		5 drains have been identified. Details are enclosed in Annexure-I.
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- 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.
iii.	**Status of CETPs** Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status		CETP not required. ETP status complied.
iv.	Status of Solid Waste Management & Details		Solid waste generation is about 18 MT/Day. CMC is practicing the

	of Processing Facilities Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		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.
v.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		River Water quality belongs top class C. Ground water quality confirms top standards.
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 wastes generated: 0.025 MT/Annum. Plastic Waste generated: 34.13 MT/Annum Hazardous Waste generated: 13.95MT/Annum.
vii.	Ground water regulation		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,		Farmers are practiceing micro irrigation technologies as a part of good irrigation practices.
ix.	Protection and management of Flood Plain Zones (FPZ),		Department of forest has submitted DPR for protection and management of flood plain zone.

x.	Rain water harvesting		Directions given to agricultural/irrigation department to organize awareness programmes in farmers to conserve water and good irrigation practices to be adopted.
xi.	Maintaining minimum environmental flow of river		Directions given to M/s. KPC Ltd., for maintaining minimum environmental flow of river.
xii.	Plantation on both sides of the river		Department of Forest has submitted DPR for protection and management of flood plain zone.
xiii.	Setting up biodiversity parks on flood plains by removing encroachment		Bio-diversity Management Committes (BMC) in individual ULBs is identifying the parks that can be converted into bio-diversity parks.

Annexure-I

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

SL. No	Locations	Date Of sampling	pH	BOD(mg/l)	Fecal Coliform(MPN/100ml)	Total Coliform(MPN/ 100ml)
1	Halmadi Nalla, Dandeli 15.245756 N, 74.635991 E	12-12-18	7.2	54	-	-
		22-02 -19	6.9	14	-	-
		01-01-20	7.3	18	212	698
		13-02-20	Yet to receive report		-	-
2	Bailpar Bridge Cross, Old Dandeli 15.235565 N, 74.617418 E	01-01-20	7.7	22	-	-
		13-02-20	Yet to receive report		-	-
3	Opp Gate-3 of West Coast Paper Mills Ltd, Dandeli 15.246695 N, 74.630080 E	21-02-19	6.7	9	-	-
		01-01-20	6.9	28	120	503
		13-02-20	Yet to receive report		-	-
4	Mirachigalli Bridge, Old Dandeli 15.243819 N, 74.622409 E	21-02-19	6.8	11	-	-
		01-01-20	7.8	18	109	515
		13-01-20	Yet to receive report		-	-
5	Behind DSFA, Patel Nagar bridge, Dandeli 15.248093 N, 74.605713 E	21-02-19	7.1	16	-	-
		01-01-20	7.7	19	94	366
		13-02-20	Yet to receive report		-	-

National Mission for Clean Ganaga
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 : Krishna
Polluted river stretch : Yadurwadi to Tintini bridge (200 km)
Priority : IV
Status as on : July 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 Secretary level Chief Secretaries may have an accountable person attached in their office for this 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 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.
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)	Progress report for the period up to July 2020 is as submitted.

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		Annexure 1A, 1B
ii.	Status of STPs, I&D and sewerage networks Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		Annexure 2A, 2B
iii.	Status of CETPs 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 decentralizing waste processing, including waste generated from hotels, ashrams, etc.		Annexure 6A, 6B, 6C

vii.	Ground water regulation		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.	Protection and management of Flood Plain Zones (FPZ),		Concerned authorities have been informed to take appropriate action.
x.	Rain water harvesting		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 the river		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 removing encroachment		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	Sunakal Nala	7.7	2.2	26	20
2	Halabhavi Nala	8.00	2.2	22	8
3	Jaladurga Nala	8.25	2	25	8
4	Gonavatla Nala	8.20	3	24	21
5	Guntagola Nala	8.05	3	28	20
6	Ramroti Nala	8.00	3	25	16
7	Raidurga Nala	8.35	3	33	18

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		Bavan Saudatti	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		Nadi Ingalgaon	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, Raichur Dist	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, Chinchali Raibag 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-Tq Dist-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, Yaragal Madari 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, Yadravi Vilage, 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 Ltd(Distillery Division),, Hirepadasalagi,** Jamakhandi-Tq, Bagalkot-Dist	**Distillery**	----	----	60	----	5.0

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 MT/Month	1.23
10	**M/s. The Banhatti Co-Operative Spinning Mill Ltd , Sy No 14 & 94, Banahatti, Tq: JamkhandiDt: Bagalkot**	**Spinning Mill Industry**	----	----	----	Cotton spinning & mercerizing	2.78

						25,080 Spindles/Month	

Table No.8 Water 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, Deodurga Tq, 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, Lingasugur Tq, Raichur Dist.	34932	14.4 T		MSW Site Existing
3	Hutti TP, Lingasugur Tq, Raichur Dist.	16278	6 T		MSW Site Existing
4	Hutti Notified Area, Lingasugur Tq, Raichur Dist.	13536	8 T		MSW site existing. 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.

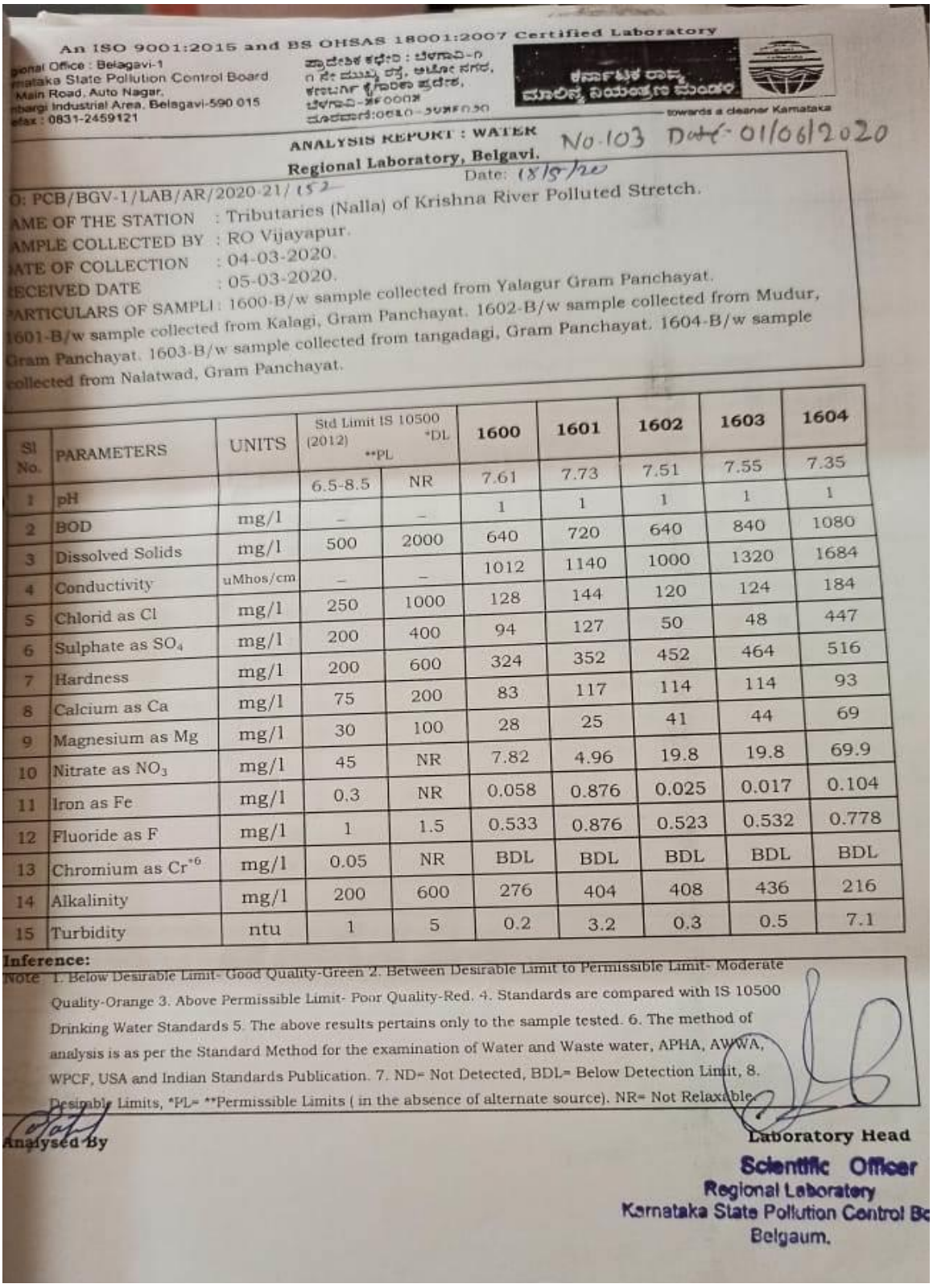
Sl. No	Name of Local Body	Population (census2011)	Total Solid Waste Generation	Proposed Achievable target	Present Status
1	Town Panchayat Examba Chikkodi Taluk Belagavi District.	15224	4.5 MT/Day	Directions were given to all the concerned Local Bodies to take immediate action to comply with SWM Rules 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 same from time to time	The ULBs have provided MSW landfill site for the treatment of Solid Waste Generated
9	TMC, Terdal, Jamakhandi-Tq, Bagalkot-Dist	26,088	13TPD		

Annexure 5A

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

Sl. No.	Gram a panch ayath	Villa ge/ habit ation	Typ e of sou rce (bw / surf ace wel l/ filte r)	Ph value(013)	Turbidity(001)	Total disso lved solid s (TD S) (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)	Asca co3	As cac o3	(as so4)	As Ca	As Mg
					(NTU)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/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

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

towards a cleaner Karnataka

ANALYSIS REPORT : WATER No.103 Date: 01/06/2020

Regional Laboratory, Belgavi.

O: PCB/BGV-1/LAB/AR/2020-21/ 152 Date: 18/5/20
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. 1602-B/w sample collected from Mudur, 1601-B/w sample collected from Kalagi, 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
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Karnataka State Pollution Control Board
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Kanbargi Industrial Area, Belagavi 590 015
Telefax : 0831-2459121

Towards a Cleaner Karnataka

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		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		Units				
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

Analysed By

Laboratory Incharge

Scientific Officer
Regional Laboratory
Karnataka State Pollution Control Board
Belagavi.

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-Lingasugur Tq - 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, Yaragal Madari Village	As per authorization Used Oil-2.0 KL/A.	1 local body is covered under krishna river strech pertaining to Regional Office, Vijayapura (Town Panchayat-Naltwad) Total Plastic Waste generation of about	There are 16 number of Health Care Facilities (HCFs) in near the Krishna River Basin including 02 number Bedded HCFs and 14 number Non Bedded HCFs. In all Bedded HCFs total numbers of Beds are 60. Total Bio Medical

					0.5 TPD	Waste (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 Raibag tq, Belagavi dist	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	2 local bodies	2 local bodies covered

				waste-0.025MTA 3. Oil filters-05 No's/Annum	covered under krishna river strech pertaining to Regional Office, Bagalkot (CMC Rabakavi-Banahatti, TMC, Terdal) - Total Plastic Waste generation – 3.46 TPD	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 Ganaga

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 : Lakshmanatheertha

Polluted river stretch : Hunusuru to Kattemalavadi (10Km)

Priority : P- III

Status as on : July 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 Secretary level • Chief Secretaries may have an accountable person attached in their office for this 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. • A monitoring cell is directly working under the Chief Secretary's Office, since 18/03/2020.
	• Monitoring at	Fortnightly	4th RRC meeting was held on

	State level must take place	Commencing 21.12.2019	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 Shakti Member Secretary, CPCB	Monthly (preferably before 20th of every month)	Progress report for the period up to July 2020 is as submitted.
6.1	Progress report maybe comprised of the details along with completion timelines on:		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.
i.	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment		
ii.	**Status of STPs, I&D and sewerage networks** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		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.
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 08 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		Presently the LBs are disposing un segregated solid wastes in the landfills land segregated wastes are composed at 4.5TPD.

	timeline		
v.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		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.		**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. 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.
vii.	Ground water regulation		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,		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.
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 and its tributaries which is also covered under polluted river stretch. In order to overcome the issue of flooding the people of these villages are warned through early warning arrangement in consultation with revenue department from Cauvery Neeravari Nigam Ltd., Further measures required for Flood Plain Management in the polluted river stretch will be implemented by March 2021.
x.	Rain water harvesting		Water resource dept is encouraging rain water harvesting through education, regulation, incentives and disincentives.
xi.	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 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.
xii.	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. Hence, the Forest Department is requested to submit

			action plan for plantation on the river bank.
xiii.	Setting up biodiversity parks on flood plains by removing encroachment		Bio-diversity Management Committes (BMC) in individual ULBs is identifying the parks that can be converted into bio-diversity parks.

Annexure -1

Location	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
D/S of Lakshmantheertha in New road bridge of Bengaluru-Bhantwala Road at Hunsur town.	2017	1.3	6.9	2.18	12.4	400	1100	2100	4300
	2018	6.2	6.9	1.6	2.5	200	390	1200	2400
	2019	5.3	7.1	1.2	4.0	2100	2800	490	840
	2020	--	--	--	--	--	--	--	--
D/S of Lakshmantheertha at water barrage near Kattemalalavadi Village	2017	3.2	6.0	2.1	7.1	260	940	1700	3300
	2018	6.0	6.9	1.34	2.4	270	380	1400	1700
	2019	4.2	7.1	1.2	5.4	2100	2800	460	700
	2020	4.2	7.1	1.2	5.4	460	940	2100	2800

National Mission for Clean Ganaga

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 : Malaprabha
Polluted river stretch : Khanapur to Ramdurg– 80 Kms stretch)

Priority : III

Status as on : July 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.
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	• 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.

	• 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.
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)	Progress report for the period up to July 2020 is as submitted.
6.1	Progress report maybe comprised of the details along with completion timelines on:		18 drains have been identified. Monitoring of drains has been carried out. As per the data out of 18 drains 11 drains need not require immediate. The water quality of drains has been enclosed in annexure-II.
i.	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment		
ii.	**Status of STPs, I&D and sewerage networks** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		Out of 6 STP, for 4 STP DPR has been done. In one case UGD is completed and STP work is under progress and other one is yet to be prepared. Status of STP has been enclosed in annexure-I.
iii.	**Status of CETPs** Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status		CETP is not required. ETP details are enclosed in annexure-III.
iv.	Status of Solid Waste Management & Details of Processing Facilities Details of Existing Infrastructure,		Total solid waste generated: 56MT/Day(includes 5 local body) Total solid waste treated:10MT/day Gap: 46MT/Day.

	Gap Analysis, Proposed along with completion timeline		Details are enclosed in annexure-IV.
v.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		No water quality details have been mentioned. Drains with flow details are enclosed in annexure-II. Ground water quality details are enclosed in annexure-V.
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.		Waste has been, collected, treated and disposed as per Hazardous Waste Management Rules, Bio Medical Waste Management Rules and Plastic Waste Management Rules. Details are enclosed in anexxure-VI.
vii.	Ground water regulation		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.	Protection and management of Flood Plain Zones (FPZ),		Concerned authorities have been informed to take appropriate action.
x.	Rain water harvesting		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 the river		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 removing encroachment		Bio-diversity Management Committes (BMC) in individual ULBs is identifying the parks that can be converted into bio-diversity parks.

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, Belagavi).

Name of the local body	Total Sewage generation in MLD	Source of Funds	Preliminary Estimated Cost (cores)	Present status of work	Target date of Completion
Town Panchayat Khanapur, Belagavi District.	2.08	The State Government and DMA	3.2	DPR Prepared by KUWSSB and submitted to DMA	31-03-2021
Town Panchayat, M K Hubli, Kittur Taluk, Belagavi District.	0.68	The State Government and DMA	4.8	DPR Prepared by KUWSSB and submitted to DMA	31-03-2021
Town Muncipal Council, Soundatti, Belagavi District	4.50	The State Government and DMA	90	DPR Prepared by KUWSSB and submitted to DMA	31-03-2021
Town Panchayat, Munavalli, Soundatti Taluk Belagavi District.	2.00	The State Government and DMA	12.8	DPR Prepared by KUWSSB and submitted to DMA	31-03-2021
Town Muncipal Council, Ramdurg, Belagavi District	3.67	The State Government and DMA	4.62	UGD Completed STP work is under progress	31-03-2021
Gram Panchayat Neginhal, Kittur Taluka, Belagavi District.	0.175	Yet to be prepared			Not furnished

Annexure-II

Sources including Nala/Drains joining to River – Mapalrabha

Sl No.	Name of the Drain/Nalla	pH	BOD	COD	DO	TDS	Cond	Total Coliforms	Faecal Coliforms
1	Water sample collected from Karambala nala sewage confluence point	8.25	23.0	168	7.1	560	895	3200	1800
2	Water sample collected at Karlaga Road Bridge	7.1	1.12	20	6.1	240	388	1600	900
3	Water sample collected from Nala near Chikkmunoli bridge	8.38	1.74	40	8.2	440	722	900	300
4	Water sample collected from Tattihala between Itagi and Itagi cross	7.84	1.14	12	5.3	320	523	900	220
5	Malaprabha River sample collected at Holemmadevi temple Hunasikatti (Malaprabha SSK D/s)	8.02	1.26	24	5.2	200	343	900	300
6	Water sample collected at Holinagalapur Nala Bridge,	8.26	2.82	60	6.5	280	446	1600	900
7	Malaprabha River back water sample collected at Nayanagar Bridge	8.31	2.17	20	6.3	200	324	1600	900
8	Water sample collected from Shapurwala nala Khanapur sewage confluence point	7.1	23	152	Nil	320	519	3200	1800
9	Water sample collected from Nalla between Doddahosur and Yadoga Road	7.45	0.78	24	6.1	160	254	900	140
10	Water sample collected from Devalatti Halla	7.92	1.38	20	5.6	280	446	900	170
11	Water sample collected from Hoovinahalla near MK Hubli	8.22	2.1	40	8.5	400	643	1600	900
12	Water sample collected from Malaprabha River water sample collected at Gangambika Temple KH4.	7.83	0.9	24	6.9	120	200	900	100
13	Water sample collected from Malaprabha River water sample collected at Holemmadevi temple Hunasikatti (Malaprabha SSK D/s)	7.78	1.5	36	7.0	120	190	900	220
14	Water sample collected at Neginaal Doddahalla	8.2	5.3	24	10.6	280	446	1600	900
15	Water sample collected from Nalla near Renuks Sugars Ltd., Munoli	8.18	1.14	20	7.3	120	202	900	280
16	Water sample collected from Doddahalla at Munoli to Shindogi Road	8.34	0.66	16	7.2	240	400	900	280
17	Water sample collected from Tegyal Halla from Munoli to Katkol Road	8.25	0.78	24	7.3	240	410	1600	280
18	Water sample collected from Halolli Halla between halolli to Sunnal Road	8.52	0.3	12	7.7	200	340	900	140

Annexure-III

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

Sl. No.	Name of the Industry	Type of industry	Products			Distance from Malaprabha River Km
			Sugar TCD	Co-gen (MW)	Distillery (KLD)	
01	M/s. Laila Sugars Ltd., Khanapur Tq., Belagavi District.	Sugar	2500	–	–	About 3.50
02	M/s. Malaprabha SSK Ni., Bailhongal Taluk, Belagavi District.	Sugar & Distillery	3500	–	Rectified Spirit 30 KLD ENA-30 KLD	About 4.15
03	M/s. Renuka Sugars Ltd., Munoli Village, Soundatti Tq., Belagavi District.	Sugar, Distillery & Co-gen	7500	35.5 MW	Rectified Spirit-120 KLD, ENA-50KLPD, Absolute Alcohol 50 KLD,	About 2.00
04	M/s. EID Parry's Sugars Khanpeth Village, Ramdurg Tq., Belagavi District.	Sugar	4950	13 MW	–	About 1.60

Annexure-IV

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

Sl. No	Name of Local Body	Population (census 2011)	Total Solid Waste Generation	Proposed Achievable target	Present Status
1	Town Panchayat Khanapur, Belagavi District.	19309	8.0 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 local body M K Hubli, has been directed to dispose solid waste in the nearby solid waste treatment facilities set up by the local bodies till they set up their own treatment facilities complying to SWM Rules.
2	Town Panchayat, M K Hubli, Kittur Taluk, Belagavi District.	13387	1.0 MT/Day		
3	Town Muncipal Council, Soundatti, Belagavi District	41215	15.0 MT/Day		
4	Town Panchayat, Munavalli, Soundatti Taluk Belagavi District.	23152	10.0 MT/Day		
5	Town Muncipal Council, Ramdurg, Belagavi District	39841	12.0 MT/Day		
6	Gram Panchayat Neginhal, Kittur Taluka, Belagavi District.	6813			

Annexure-V

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

Sl No.	Name of the Drain/Nalla	pH	BOD	COD	DO	TDS	Cond	Total Coliforms	Faecal Coliforms
1	Water sample collected from Karambala nala sewage confluence point	8.25	23.0	168	7.1	560	895	3200	1800
2	Water sample collected at Karlaga Road Bridge	7.1	1.12	20	6.1	240	388	1600	900
3	Water sample collected from Nala near Chikkmunoli bridge	8.38	1.74	40	8.2	440	722	900	300
4	Water sample collected from Tattihala between Itagi and Itagi cross	7.84	1.14	12	5.3	320	523	900	220
5	Malaprabha River sample collected at Holemmadevi temple Hunasikatti (Malaprabha SSK D/s)	8.02	1.26	24	5.2	200	343	900	300
6	Water sample collected at Holinagalapur Nala Bridge,	8.26	2.82	60	6.5	280	446	1600	900
7	Malaprabha River back water sample collected at Nayanagar Bridge	8.31	2.17	20	6.3	200	324	1600	900
8	Water sample collected from Shapurwala nala Khanapur sewage confluence point	7.1	23	152	Nil	320	519	3200	1800
9	Water sample collected from Nalla between Doddahosur and Yadoga Road	7.45	0.78	24	6.1	160	254	900	140
10	Water sample collected from Devalatti Halla	7.92	1.38	20	5.6	280	446	900	170
11	Water sample collected from Hoovinahalla near MK Hubli	8.22	2.1	40	8.5	400	643	1600	900
12	Water sample collected from Malaprabha River water sample collected at Gangambika Temple KH4.	7.83	0.9	24	6.9	120	200	900	100
13	Water sample collected from Malaprabha River water sample collected at Holemmadevi temple Hunasikatti (Malaprabha SSK D/s)	7.78	1.5	36	7.0	120	190	900	220
14	Water sample collected at Neginaal Doddahalla	8.2	5.3	24	10.6	280	446	1600	900
15	Water sample collected from Nalla near Renuks Sugars Ltd., Munoli	8.18	1.14	20	7.3	120	202	900	280
16	Water sample collected from Doddahalla at Munoli to Shindogi Road	8.34	0.66	16	7.2	240	400	900	280
17	Water sample collected from Tegyal Halla from Munoli to Katkol Road	8.25	0.78	24	7.3	240	410	1600	280
18	Water sample collected from Halolli Halla between halolli to Sunnal Road	8.52	0.3	12	7.7	200	340	900	140

Annexure-VI

Solid Waste Management

SI NO	River	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 Centers
1	Malaprabha	1) M/s Laila Sugar Ltd., Khanapur Tq., Belagavi District	**used Oil=0.0011 KLPD**	There are 5 Local bodies located in the Malaprabha River stretch. Total waste generation is 0.93 tons per Day.	There are 5 Local bodies under Malaprabha River stretch. There are 91 Nos. of HCE's. The BMW generation is 0.301 tons/day.
		2) M/s. Malaprabha SSK, Baihongla Taluk Belagavi District	**used Oil=0.0016 KLPD**		
		3)M/s. Renuka Sugar Ltd., Munoli village Soundatti Tq, Belagavi District	**used Oil=0.00083 KLPD**		
		4) M/s. EID Parry's Sugars Khanpeth Village, Ramdurga Tq,Belagavi District	**used Oil=0.00027 KLPD**		

National Mission for Clean Ganaga

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 : Netravathi and Kumaradhara

Polluted river stretch : Netravathi and Kumaradhara (55 Km)

Priority : P- V

Status as on : July 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 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).

	• Chief Secretaries may have an accountable person attached in their office for this purpose.	22.01.2020	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.
	• 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.
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)	Progress report for the period up to July 2020 is as submitted.
6.1	Progress report maybe comprised of the details along with completion timelines on:		13 number of drains are identified and monitoring is carried out and water quality of the drains are monitored.
i.	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment		
ii.	**Status of STPs, I&D and sewerage networks** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		No existing STPs in Bantawala and Belthandy. TMC Bantawala is taken up UGD is under progress.
iii.	**Status of CETPs** Details of Existing CETP		CETP Not required, No industries are located in the banks of the river

	and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status		Nethravathi and Kumaradhara.
iv.	Status of Solid Waste Management & Details of Processing Facilities Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		Total solid waste generation – 18.55 MT/Day (2 local bodies and 2 Gram Panchayath). Solid waste generated at in Bantawala TMC is handed over to MCC, mangaluru for processing the site for disposal.
v.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		Enclosed in 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.		Bio-medical waste management is flowed as per the BMW Rules, 2016 and is compiled.
vii.	Ground water regulation		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,		Awareness programs in micro irrigation to farmers have been carried out regularly by Agriculture Departments of water resources.
ix.	Protection and management of Flood Plain Zones (FPZ),		Directions have been given to Forest Department to submit details abput the flood plain zone and to carry out massive plantation and also notify the FPZ
x.	Rain water harvesting		Gazing station is installed at Thumbe, bantawala
xi.	Maintaining minimum environmental flow of river		Irrigation dept. has been informed to take appropriate action.
xii.	Plantation on both sides of the river		Directions given to agricultural / irrigation department to organize awareness programs in farmers to conserve water and good irrigation practices to be adopted.
xiii.	Setting up biodiversity parks on flood plains by removing encroachment		Bio-diversity Management Committes (BMC) in individual ULBs is identifying the parks that can be converted into bio-diversity parks.

Annexure – 1

SAMPLE NO & PARTICULARS OF SAMPLE COLLECTED on 03.02.2020	1. Downstream River Netravathi Collected near Shanthipadi, Thalipadapu Village (1041) 2. Downstream of River Netravathi Collected near Panemangaluru Old bridge side A.M Masjid, Gudinabali (1042) 3.Downstream River Netravathi Collected near Shree veera vittala rudra bhoomi, Panemangaluru Old Bridge (1043) 4.Upstream of River Netravathi Collected near Jodumarga, Kanchikere pete (1044) 5.Upstream of River Netravathi Collected near Fish market (1045)

S.NO	PARAMETERS	Unit	Standard		Result				
			*AL	**PL	Sample No.1041	Sample No.1042	Sample No.1043	Sample No.1044	Sample No.1045
1	pH	pH unit	6.5-8.5	NR	7.2	7.1	6.9	6.8	6.6
2	Oil and Grease	mg/l	NS	NS	BDL	BDL	BDL	BDL	BDL
3	Suspended Solids	mg/l	NS	NS	16	16	12	14	32
4	Conductivity	µohms/cm	NS	NS	252	236	194	272	228
5	COD	mg/l	NS	NS	32	36	40	38	34
6	BOD (3 days @ 27 0 C)	mg/l	NS	NS	2	2	2	2	2
7	Total Residual Chlorine	mg/l	0.1	1	BDL	BDL	BDL	BDL	BDL
8	Total Dissolved Solids	mg/l	500	2000	142	134	118	138	126
9	Sulphate	mg/l	200	400	1	1	1	2	3
10	Chloride	mg/l	250	1000	18	20	18	20	30
11	Nitrate	mg/l	45	NR	0.43	0.401	0.304	0.284	0.357
12	Free Ammonia	mg/l	NS	NS	0.0593	0.0593	0.0188	0.0188	0.0126
13	Amonical Nitrogen	mg/l	0.5	NR	3.36	3.36	3.36	3.36	2.24
14	Hardness	mg/l	200	600	30	32	32	36	40
15	Dissolved	mg/l	NS	NS	BDL	BDL	BDL	0.0004	0.034

	Phosphate								
16	Flouride	mg/l	1	1.5	0.0269	0.0269	0.0222	0.0237	0.0267
17	Sulphide	mg/l	0.05	0.05	BDL	BDL	BDL	BDL	BDL
18	Dissolved Oxygen	mg/l	3	__	4.1	4.7	5	5.2	5.4

National Mission for Clean Ganaga

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 : Thippagondanahalli Reservoir to Kanakapura town (55Km)

Priority : III

Status as on : July 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	BWSSB, GoK has proposed for the construction of artificial floating islands in Dorekere (Global village tech park and Sonnenahalli bridge, Bengaluru) amounting to Rs. 62.41 Lakhs. 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	BWSSB: Additional to the existing STPs of 426 MLD capacity, STP for 150 MLD (estimated cost: 612 crores) is under execution and 53 MLD (estimated cost: 159 crores) has been further proposed (for the projected population of the year 2035) for the treatment of the Virushabhavathi Valley sewerage. 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		BWSSB will complete STP of 150 MLD capacity within the

	including completion of setting up STPs and their commissioning		timeline. KUWS&DB: 24 months from the date of handing over of the required land from the ULBs for STP construction and I&D works.
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.		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 take place		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 Shakti Member Secretary, CPCB		Progress report for the period up to July 2020 is as submitted.
6.1	Progress report maybe comprised of the details along with completion timelines on:		15 Nos. of drains identified in the entire 55 Kms Polluted river stretch from Thippagondanahalli reservoir to Kanakapura Town stretch. The details of the same are highlighted in the **Annexure-I.**
i.	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment		
ii.	**Status of STPs, I&D and sewerage networks** Details of Existing		STP details are enclosed in **Annexure-II**

	Infrastructure, Gap Analysis, Proposed along with completion timeline		
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		There are 144 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. About 17.84 KLD of effluent from 14 industries is being sent to Common ETPs for treatment and disposal. 250 KLD CETP is proposed in Peenya Bangaluru and 10 crores has been sanctioned by GoK. Expression of intrest(EOI)has been called for.
iv.	Status of Solid Waste Management & Details of Processing Facilities Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline	CMC-Ramanagara-31.12.2021 CMC-Kanakapura-31.12.2020	Solid Waste Management details are enclosed in **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;		Water quality of polluted river, its tributaries, drains with flow details are enclosed as **Annexure-I.** The Ground Water Quality in the villages located on the polluted stretch of River –Arkavathi monitored by the Ground water authority during May 2020 is enclosed as **Annexure-IV.**
vi.	Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic wastes	31.12.2021	**Bio-medical wastes-** As per the information furnished by the Health & Family Welfare Department, all the government and private HCFs are connected

	and decentralizing waste processing, including waste generated from hotels, ashrams, etc.	31.12.2020	with CBMWTs. As per the information furnished by the Deputy Director Animal Husbandry Department, out of 124 institutions, only one is linked to the treatment facility, while others have resorted to deep burial disposal and they have submitted an action plan for connection of all Veterinary institutions with CBWTF. Accordingly time frame is fixed to implement the same by **March 2021**. The local bodies have collected and disposed the domestic bio-medical waste to CBWTF. **Plastic Waste:** Draft Policy and Plan for plastic waste management has been prepared by the ULBD. 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.** Plastic waste generated in the industries is handed over to KSPCB authorized recyclers.
vii.	Ground water regulation		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,		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 taluka 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		The Ground water Authority have furnished replies that they have directed to provide the rainwater harvesting and ground water recharge systems with clean water for all the industrial, commercial and other institutions while issuing NOC for Borewell extraction.
xi.	Maintaining minimum environmental flow of river		As informed by the Cauvery Neeravari Nigham the minimum Environmental E-Flow is Maintained.
xii.	Plantation on both sides of the river	31.12.2024	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 parks on flood plains by removing encroachment		JP park Bangaluru is being developed as bio diversity park. Bio-diversity Management Committes (BMC) in individual ULBs is identifying the parks that

			can be converted into bio-diversity parks.

Annexure-I

Particulars and water quality of Nala/Drains of Drains falling in to River – Arkavathi

Sl. No	Year	Locations	DO (mg/L)	BOD (mg/L)	Fecal Coliform (MPN/100ml)	Total Coliform (MPN/100ml)
1	2019-20	Storm water drain located near Old Pump House, Dyavarsegowdanadoddi, Ward No 1, Ramanagara City Latitude: 12°43'54.87"N Longitude : 77°16'57.32"E	Nil	344	17000	43000
2		Storm water drain located Near B.M Road near Arkavathi Bridge towards Ward No 27 Ramanagara City Latitude: 12°43'47.22"N Longitude : 77°16'54.64"E	Nil	405	28000	54000
3		Storm water drain located Near B.M Road opposite to Ramakrishna hospital Ramanagara City Latitude: 12°43'35.85"N Longitude : 77°16'36.92"E	Nil	428	21000	43000
4		Storm water drain located Near B.M Road near Arkavathi Bridge towards Ward No 27 Ramanagara City Latitude: 12°43'48.19"N Longitude : 77°16'52.44"E	Nil	213	9400	28000
5		Storm water drain located Near industrial estate ward no-8, Ramanagara City, Latitude: 12°43'27.08"N Longitude : 77°16'36.78"E	Nil	489	17000	33000
6		Storm water drain located Opposite to Ambedkar Bhavan Ward No 8, Ramanagara City. Latitude: 12°43'13.45"N Longitude : 77°16'39.19"E	Nil	177	1700	3900

7		Storm water drain located Near railway bridge towards B-M road near Kanakapura Circle, Ramanagara Latitude: 12°42'45.65"N Longitude :77°16'36.84"E	Nil	132	930	3400
8		Storm water drain located Near Balgeri railway bridge Ward No 13, Ramanagara City Latitude:12°42'42.64"N Longitude :77°16'40.55"E	Nil	120	1100	5400
9		Storm water drain located Near Swimming Pool road at Ward No 18, Ramanagara city Latitude:12°42'23.78"N Longitude :77°17'4.30"E	Nil	382	13000	31000
10		Storm water drain located Near Chammundeshwari Temple Road ,Ward No 06, Ramanagara city Latitude:12°43'33.35"N Longitude :77°16'38.32"E	Nil	315	14000	27000
11		Storm water drain located Opposite to BM Road Bridge Ward No 4, Ramanagara city Latitude:12°43'42.20"N Longitude :77°16'50.98"E	Nil	328	7900	22000
12		Storm water drain located near B.M Road, Kanakapura Town Latitude: 12°33'34.65"N Longitude:77°25'32.22"E		28	2100	5800
13		Storm water drain located Near Malagalu Bridge , Kanakapura Town Latitude:12°32'41.49"N Longitude: 77°25'36.65"E	Nil	147	2200	7000
14		Storm water drain located Near Malagalu Diary Road, Kanakapura Town Latitude:12°32'44.18"N Longitude: 77°25'40.23"E	Nil	206	1700	7900

15		Storm water drain located Near KSRTC Bus stop, Kanakapura Town Latitude:12°32'50.95"N Longitude: 77°25'39.24"E	5.4	12.4	2100	5400

Status of Water Quality of River – Arkavathi (in the polluted stretch)

Year	Locations	DO (mg/L)		BOD(mg/L)		Fecal Coliform (MPN/100ml)		Total Coliform (MPN/100ml)	
		Min	**Max**	**Min**	**Max**	**Min**	**Max**	**Min**	**Max**
2020	Thippagondanahalli Reservoir	4.1	13.0	6.0	16.0	840.0	46 X 10^2	9200	540 X 10^2
	Manchanabele dam	5.5	7.2	6.0	6.0	70 X 10^2	94 X 10^2	540 X 10^2	540 X 10^2
	Downstream of Ramanagara town	3.7	-	9.0	-	-	-	9200	-
	Downstream of Kanakapura Town	4	6.6	6	10	2100	140 X 10^3	16000	1600 X 10^3

Annexure-II

Status of STPs (local bodies) along Arkavathi river stretch

Name of Town/Area/villages	Waste water generation in MLD	STP capacity in MLD		STP operational Status		Gap in treatment	Achieving norms / or not (detail plan for achieving norms)	Time line for proposed model plan	Population	Progress report
		Existing	Proposed	Existing	Proposed					
City Municipal Council - Ramanagara	10.0	7.5	2.5	6	--	4.0	--	31.12.2021	4.0 MLD for connecting missing link is yet to be taken up	DRR has been prepared and submitted to Chief Engineer for the amount of Rs.220.17 Crores for providing complete treatment System.
City Municipal Council - Kanakapura	4.4	6.29	Nil	3.8	Nil	0.6	--	31.12.2021	Existing STP is adequate	KUWSDB has prepared a line estimate of Rs.30.0 Crores for connecting missing links to UGD network.

Annexure-III

Sl.No	Name of Local Body	Population (census 2011)	Total Solid Waste Generation	Total Solid waste Collected	Total Solid waste Processed	Gap	Progress report
1	City Municipal Council Ramanagara, Ramanagara Taluk & District.	95167	40.0 MT/Day	35 MT/Day	10 MT/Day	25 MT/Day	As informed by the Local Bodies, DPR has been prepared for scientific proceeding and disposal of municipal solid waste and approved. Tender process is under progress
2	City Municipal Council, Kanakapura, Kanakapura Taluk, Ramanagar District	54014	24.0 MT/Day	20 MT/Day	10 MT/Day	14 MT/Day	As informed by the Local Bodies, Establishing Solid Waste Processing site- civil works completed procurement of vehicles and machineries under progress. By the end of December-2020, the processing plant is ready for commission

Annexure-IV

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	27-05-2020	240	0.05	1700	7.38	1000	155	267	12	125	46	9	263	1.69	496
2	Town, Ramanagara	Bore Well	27-05-2020	360	0.03	2020	7.26	1250	167	291	135	144	67	10	204	0.83	628
3	Village Kanakapura	Dug Well	22-05-2020	130	0.04	760	8.14	456	75	213	5	38	29	2	48	0.31	212
4	Town, Ramanagara	Bore Well	22-05-2020	910	0.11	1500	7.67	910	99	338	90	101	68	0.5	143	0.81	524

National Mission for Clean Ganaga

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 : Shimsha

Polluted river stretch : Yediyur to Halagur (80Km)

Priority : IV

Status as on : July 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 Secretary level • Chief Secretaries may have an accountable person attached in their office for this 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. A monitoring cell is directly working under the Chief Secretary's Office, since 18/03/2020.

	• 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.
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)	Progress report for the period up to July 2020 is as submitted.
6.1 i.	Progress report maybe comprised of the details along with completion timelines on: Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment		One drain is identified in the entire 80 Kms Polluted river stretch from Yediyur to Halgur stretch. drain details are enclosed in Annexure-I
ii.	**Status of STPs, I&D and sewerage networks** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		STP details are enclosed in Annexure-II.
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		Solid Waste generation: 162TPD Solid Waste Treatment: 130TPD Gap:32TPD

	timeline		
v.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		The KSPCB is monitoring the water quality of river Shimsha under National Water Monitoring Programme (NWMP) by collecting water samples once in month. Details are enclosed in Annexure-III. drains with flow details are enclosed in Annexure-I. ground water quality in the catchment of polluted river are enclosed in Annexure-IV.
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.
vii.	Ground water regulation		Details are enclosed in Annexure-V.
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 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 Suviliance Committee within March 2021
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

			Shimsha and the same will be complied within time frame of March 2021.
xiii.	Setting up biodiversity parks 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.

Annexure-I

Water quality of drains joining Shimsha Polluted River Stretch in Maddur Taluk, Mandya District

Parameters	Units in	Standards as per IS 10500:2012 Drinking water standards		Results & Sample nos.
		AL	**PL**	Water sample from strom water drain leading to Shimsha river near Dandimaramma temple , Hokkalageri Beedi Maddur
pH	Unit	6.5-8.5	No relaxation	7.4
Electric Conductivity	µmho/cm	-	NS	952
Total disolved solids	mg/L	500	2100	700
Total Suspended Solids	mg/L	NS	NS	20
Dissolved Oxygen	mg/L	NS	NS	1
Chemical Oxygen Demand	mg/L	NS	NS	184
Bio Chemical Oxygen Demand	mg/L	NS	NS	28
Total Hardness	mg/L	200	600	376
Calcium as Ca	mg/L	75	200	77
Magnesium as Mg	mg/L	30	100	45
Total Alkalinity as Ca CO3	mg/L	200	600	192
Chloride	mg/L	250	1000	100
Sulphate	mg/L	200	400	52
NITRATE as N	mg/L	45	No relaxation	6.1
Phosphate	mg/L	NS	NS	0.99
Ammonia	mg/L	0.5	No relaxation	4.4
Total Kjeldhal Nitrogen	mg/L	NS	NS	7
Free Ammonia	-	NS	NS	0.08
Fluoride	mg/L	1	1.5	0.11
Boron	mg/L	0.5	2.4	0.16
Phenolic Compounds	mg/L	0.001	0.002	BDL
Cyanide	mg/L	0.05	No relaxation	BDL
Sulphide	mg/L	0.05	No relaxation	1.6
Sodium	mg/L	NS	NS	75
Potassium	mg/L	NS	NS	9.7
Sodium abosorption ratio	Max	NS	NS	1.7
Oil & Grease	mg/L	NS	NS	BDL
hexavalent Chromium	mg/L	NS	NS	BDL
Total Coliform	mg/L	NS	NS	3500
FeaCal Coliform	mg/L	NS	NS	1100
Copper	mg/L	0.5	1.5	BDL
Lead	mg/L	0.01	No relaxation	BDL
Nickel	mg/L	0.02	No relaxation	BDL
Iron	mg/L	1	No relaxation	0.22
Zinc	mg/L	5	15	BDL
Chromium	mg/L	0.05	No relaxation	BDL
Cadmium	mg/L	0.003	No relaxation	BDL
Manganese	mg/L	0.1	0.3	BDL

ANNEXURE-II

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	2.5	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	31-03-2021 DPR for Rs. 50.15 Crores is approved & work order is issued on 15-04-2020.

Annexure-III

Status of Water Quality of River Shimsha

Location	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
D/S of river Shimsha near Bangalore-Mysore Road Bridge Maddur, Maddur Tq, Mandya District	2017	5.0	6.0	2.0	4.0	390	490	1700	2200
	2018	2.8	6.8	1.4	6.2	210	390	1500	2400
	2019	5.9	6.3	2.5	2.8	470	840	1700	2200
D/s of river shimsha near Halgur Road Bridge, Malavalli Tq, Mandya District	2017	6.0	6.4	1.8	2.5	210	380	1400	1500
	2018	4.5	6.9	1.8	3.3	340	470	1300	2200
	2019	6.2	6.5	2.0	2.5	380	790	1500	2800

Annexure-IV

Ground water Quality collected from villages along the stretch of Shimsha River from Yadiyur to Halgur Bridge , Mandya District.

Parameters	**Units in**	**Standards as per IS 10500:2012 Drinking water series**		**Results & Sampling Locations**							
		AL	**PL**	**Borewell sample collected AT Koppa**	**Borewell water sample collected at Besagarahalli.**	**Borewell water sample collected at Kowdley**	**Borewell water sample collected AT Thorebommanahalli village**	**Borewell water sample collected at Kesthur**	**Borewell water sample collected at Hunnanadoddi**	**Borewell water sample collected at Madduru**	**Borewell water sample collected at Besagarahalli**
Electric Conductivity	µmho/ cm	**-**	**NS**	1375	1525	1250	2010	1750	1580	1030	1450
pH	Unit	**6.5-8.5**	**No relaxation**	7.85	7.52	7.7	7.47	7.86	7.74	7.24	7.39
Total dissolved solids	mg/L	**500**	**2000**	850	915	760	1190	1040	1005	630	890
Sodium	mg/L	**NS**	**NS**	175	184	138	149	192	261	146	0
CO3				0	0	0	0	0	**0**	0	0
Alk				0	0	0	0	0	**0**	0	0270
HCO3				312	240	294	525	465	**270**	284	0.5
NO3				6	55	6	20	12	**10**	9	67
Calcium as Ca	mg/L	**75**	**200**	64	22	59	77	27	**59**	37	0
Magnesium as Mg	mg/L	**30**	**100**	35	74	43	116	95	**15**	24	0
Potassium	mg/L	**NS**	**NS**	3	3	2	9	1	**12**	4	0
Chloride				143	230	104	260	151	**213**	78	252
Fluoride	mg/L	**1**	**1.5**	0.29	0.07	0.03	0.07	0.06	0.1	0.03	0.13
Total Hardness	mg/L	**200**	**600**	300	**352**	320	656	448	208	188	440

Annexure-V

Ground Water extraction details

As per the details obtained from Karnataka Ground Water Authority, the status of Ground water extraction is as follows:

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 Ganaga

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 (10Km)

Priority : V

Status as on : July 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 Secretary level • Chief Secretaries may have an accountable person attached in their office for this 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. • A monitoring cell is directly working under the Chief Secretary's Office, since 18/03/2020.

	• 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.
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)	Progress report for the period up to July 2020 is as submitted.
6.1	Progress report maybe comprised of the details along with completion timelines on:		6 drains have been identified. Details of drains has been enclosed in Anexure-I
i.	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment		
ii.	**Status of STPs, I&D and sewerage networks** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		Existing STPs- 35.58MLD Proposed STP -5.13MLD is under Construction at Purle Village. Quantity of total Sewage generation- 47.79 MLD Quantity of total Sewage Treated- 35.58 MLD
iii.	**Status of CETPs** Details of Existing CETP and ETP Infrastructure, Gap Analysis, Proposed along with completion timeline, No. of industries and complying status		CETP not required. There are no industries or cluster of industries in the Tunga River Streach.
iv.	Status of Solid Waste Management & Details of Processing Facilities Details of Existing Infrastructure, Gap Analysis, Proposed along with completion		Shivamogga District is having 9 local bodies. The City Corporation ,Shivamogga is situated along the bank of the Tunga River. **City Corporation,Shivamogga:** Total Solid Waste Generation:

	timeline		110TPD. The City Corporation Shivamogga is Collecting 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;		Water quality of polluted river details are enclosed in Anexure-II drains with flow details are enclosed in Anexure-I ground water quality in the catchment of polluted river are enclosed in Anexure-III
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 Management:** The Shivamoga District is having CBMWTF at Machenahalli industrial area. The BMW generated from Health Care Establishment are disposed to CBMWTF for further treatment. Details have been enclosed in Annexure-IV. **Plastic Waste Management:** The City Corporation, Shivamogga has prepared By laws for Plastic Waste Management Rule and accordingly Plastic Waste shall be collected from house hold/Commercial Sectors. 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. Details have been enclosed in Annexure-V
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.

Annexure-I

Characteristics of drain water lead to River Tunga.

Sl.No	Name of the Parameters	Unit	Name of the Drain/Nala(Results)					
			Nala Joining Tunga River near Harakere	Nala Joining Tunga River near Urgadur	Nala Joining Tunga River near Purle	Nala Joining Tunga River near Holebenavalli	Nala Joining Tunga River near Gorvinakatte	Nala Joining Tunga River near Kudli
1	Turbidity	NTU	2	2	4	3	2	4
2	TDS	mg/L	260	244	426	320	270	894
3	pH	--	6.78	7.54	6.89	7.70	7.5	7.18
4	Boron as B	mg/L	BDL	BDL	BDL	BDL	BDL	BDL
5	Calcium as Ca	mg/L	24	23	36	16	22	68
6	Chloride as Cl	mg/L	72	64	84	58	84	360
7	Flouride as F	mg/L	0.33	0.52	0.35	0.23	0.59	0.99
8	Magenesium as Mg	mg/L	14	13	21	9	12	39
9	Nitrate as No3	mg/L	0.33	0.39	ND	ND	ND	0.78
10	Sulphate as So4	mg/L	15	34	120	40	38	102
11	Total Alkanity as CaCo3	mg/L	102	82	170	194	92	180
12	Total Hardness as CaCo3	mg/L	118	112	178	78	106	332
13	Lead as Pb	mg/L	BDL	BDL	BDL	BDL	BDBDLL	BDL
14	Iron as Fe	mg/L	BDL	BDL	BDL	BDL	BDL	BDL
15	Copper as Cu	mg/L	BDL	BDL	BDL	BDL	BDL	BDL
16	Nickle as Ni	mg/L	BDL	BDL	BDL	BDL	BDL	BDL
17	Zinc as Zn	mg/L	BDL	BDL	BDL	BDL	BDL	BDL
18	Magnesium ad Mn	mg/L	BDL	BDL	BDL	BDL	BDL	BDL
19	Total Chromium as Cr	mg/L	BDL	BDL	BDL	BDL	BDL	BDL
20	Cadmium as Cd	mg/L	BDL	BDL	BDL	BDL	BDL	BDL

Annexure-II

Status of Water Quality of River - Tunga

Year	Location	DO(mg/L)		BOD(mg/L)		Fecal Coliform (MPN/100ml)		Total Coliform (MPN/100ml)		Class
		Min	Max	Min	Max	Min	Max	Min	Max	
2017	D/S of Shivamogga City	6	8	2.5	3.6	1400	100000	300	180000	D
2018		6.6	7.6	3	5	1100	90000	2800	160000	D
2019		6.2	13.4	3	4.0	1100	11000	1300	17000	D

Note:

Class“A” – Drinking water source without conventional treatment but after disinfection.
Class“B” – Out door bathing (organized).
Class “C” – Drinking Water Source with conventional treatment followed by disinfection.
Class “D” – Propagation of wild life, fisheries.
Class “E” – Irrigation, Industrial cooling, Controlled Waste disposal.
WQI=Water Quality Index, S=Satisfactory, US=Unsatisfactory.

Annexure-III

Characteristic of identified ground water quality on the bank of River Tunga:

Sl.No	Name of the Parameters	Unit	Name of the Bore well water samples collected Place (Results)	
			Bore well water sample collected at Pillangiri	Bore well water sample collected at Purle
1	Turbidity	NTU	5	3
2	TDS	mg/L	2198	960
3	pH	--	6.52	7.03
4	Boron as B	mg/L	BDL	BDL
5	Calcium as Ca	mg/L	192	104
6	Chloride as Cl	mg/L	690	252
7	Flouride as F	mg/L	0.78	0.92
8	Magenesium as Mg	mg/L	102	58
9	Nitrate as No3	mg/L	1.14	ND
10	Sulphate as So4	mg/L	520	172
11	Total Alkanity as CaCo3	mg/L	360	294
12	Total Hardness as CaCo3	mg/L	900	500
13	Lead as Pb	mg/L	BDL	BDL
14	Iron as Fe	mg/L	BDL	BDL
15	Copper as Cu	mg/L	BDL	BDL
16	Nickle as Ni	mg/L	BDL	BDL
17	Zinc as Zn	mg/L	BDL	BDL
18	Magnesium ad Mn	mg/L	BDL	BDL
19	Total Chromium as Cr	mg/L	BDL	BDL
20	Cadmium as Cd	mg/L	BDL	BDL

Inference:

Note
1. Values in excess of those mentioned under “acceptable limit” render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limit indicated under “permissible limit” in the absence of alternative source.
2. Standards are compared with IS 10500:2012 Drinking Water Standards
3. The above results pertain only to the sample tested.
4. 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.
5. ND= Not Detected, BDL= Below Detection Limit,
6. *DL=Desirable Limits, *PL= **Permissible Limits (in the absence of alternate source). NR= No Relaxation.

Annexure-IV

Plan for integrated Biomedical waste management (IPWM of local Body).

Sl.No.	Action Point	Concerned Stakeholders	Present Status	Action to be taken	Time Target
1	Implementation of the Bar Code System	CBWTDFs and HCFs	The Equipment for Online Waste Management System has been procured, Mapping of Health Care Facility is in Progress.	CBMWTF Establishing a Bar- Code System for bags or containers containing bio-medical waste to be sent out of the premises by HCFs.	31-03-2020

Annexure-V

Plan for integrated Plastic waste management (IPWM0 of local bodies)

Sl. No.	Name of the local Body	Population	Total Solid Waste Generation	Proposed achieved Target	Present Status
1	City Corporation, Shivamogga	322650	110TPD	Directions were given to CC, Shivamogga to comply with SWM Rules.The Targate time comply is 31.12.2020.	Plastic raids (Sales and Shops) were conducted from time to time from City Corporation Shivamogga and KSPCB.

National Mission for Clean Ganaga

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 (80 Km)

Priority : P- III

Status as on : July 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	31.03.2020	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 Secretary level • Chief Secretaries may have an accountable person attached in their office for this 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. • A monitoring cell is directly working under the Chief Secretary's Office, since 18/03/2020.
	• 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.
6.	Progress report may be furnished by the States/UTs to • Secretary, Ministry of Jal Shakti Member Secretary, CPCB		Progress report for the period up to July 2020 is as submitted.
6.1	Progress report maybe comprised of the details along with completion timelines on:	Monthly (preferably before 20th of every month)	Six number of drains are identified. There are found to be Nadiharalahalli Village,Hukkadagathri Village, Harihara Town, Hole Haralahalli Village, Airani, Hirebidari village, Aravi village, Kuravathi Village, Chikkabidari,Didagur village.
i.	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment		
ii.	**Status of STPs, I&D and sewerage networks** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		Status of STP CMC, Harihara. 18 MLD capacity new STP construction is completed. 120 KM length sewerage network is completed. 05 wet wells construction is completed, 4632 house service connections were completed. Remaining 15336 will be completed by DEC-2020 & STP will be commissioned by DEC-2020. Davangere City Corporation 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 is being used for Onland for irrigation and agricultural purpose. **Haveri:** CMC, Ranebennur has provided 15MLD capacity STP and sewerage network completed.

			75% of house service connection completed. Remaining will be completed by DEC-2020.
iii.	**Status of CETPs** 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 the Consent conditions. Some portion of the treated wastewater is being used for onland irrigation and rest is being discharged to Tungabhadra River. Haveri: No CETP existing/operating in Ranebennur Taluk. ETPs of Harihara Polyfibers and Grasiline industries are being monitored by RO, Davanagere.
iv.	Status of Solid Waste Management & Details of Processing Facilities Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		Status of SWM CMC, Harihara. At present 25 to 30 TPD waste is generated 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 in an area 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;		No water quality details have been mentioned.

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 Davangere District is having CBMWTF at Amaravthi village. The BMW generated from Health Care Establishment are disposed to CBMWTF for further treatment. SWM site is having the facility of windrow compositing and baling of recyclable materials. Tender finalized & Work order issued to establish dry waste collection center under SBM scheme by CMC, Harihara. **Haveri:** At Present Bio Medical Wastes of Ranebennur Taluk are being collected and treated by M/s. Rio Green Environ ASTS, Tarihal Industrial area, Hubballi. MSW generated is being processed @ SWM site.
vii.	Ground water regulation		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,		Awareness programs in micro irrigation to farmers have been carried out regularly by Agriculture Departments of water resources.
ix.	Protection and management of Flood Plain Zones (FPZ),		The details are awaited from the district local bodies.
x.	Rain water harvesting		Davangere Urban Development Authority (DUDA) – Smart City 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		There is no encroachment on flood plains in River belt.

National Mission for Clean Ganaga

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 : Belur to Halavagilu, Hassan (60Km)

Priority : V

Status as on : July 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 Secretary level • Chief Secretaries may have an accountable person attached in their office for this 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. • A monitoring cell is directly working under the Chief Secretary's Office, since 18/03/2020.

	• 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.
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)	Progress report for the period up to July 2020 is as submitted.
6.1 i.	Progress report maybe comprised of the details along with completion timelines on: Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment		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.
ii.	**<u>Status of STPs, I&D and sewerage networks</u>** Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		STP details are enclose in Annexure-I
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		CETP not required. 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 point 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 has provided STP of capacity 10KLD and utilizing the treated sewage effluent into onland for irrigation within the

			premises.
iv.	Status of Solid Waste Management & Details of Processing Facilities Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline		There are two LBs. Solid Waste generated:70 Solid Waste treated:18.5 Gap:51.5TPD
v.	Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;		River water quality belongs to class C. ground water quality is complied.
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.
vii.	Ground water regulation		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,		The Dept. of Agriculture has submitted action plan for implementation of following measures. • General Government Practice of Irrigation is maintained in the Kollegala 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 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
x.	Rain water harvesting		Water resource dept is encouraging rain water harvesting through education, regulation, incentives and disincentives.
xi.	Maintaining minimum environmental flow of		Irrigation dept. has been informed to take appropriate action.

	river		
xii.	Plantation on both sides of the river		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 removing encroachment		Bio-diversity Management Committes (BMC) in individual ULBs is identifying the parks that can be converted into bio-diversity parks.

Annexure-I

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 Hassan	10.0 MLD	29 MLD	Nil	1 drain carrying sewage & sullage effluent is to be connected to STP	9.56 MLD	85% of the area covered with UGD & further work in progress	Work of laying UGD network for remaining area is under progress	31-03-2021 DPR for Rs. 165 Crores is submitted for approval to Govt.
TMC, Belur	2.7 MLD	7MLD	Nil	1 drain1s carrying sullage effluent is to be connected to STP	0.14 MLD	75% of the area covered with UGD & further work in progress	Work of laying UGD network for remaining area is under progress	31-03-2021. DPR for Rs. 43 Crores is submitted for approval to Govt.