

# **MONTHLY PROGRESS REPORT**

**On**

**Polluted River Stretches**

**for the**

**State of Andhra Pradesh**

**JUNE 2020**

**Submitted to**

**Ministry of Jal Shakti  
Government of India  
Department of Water Resources  
River Development & Ganga Rejuvenation**

**NATIONAL MISSION FOR CLEAN GANGA  
MINISTRY OF JALSAKTHI**

**NEW DELHI**

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**1. Progress report of Priority –IV Polluted River Stretches for the month of June 2020 for 2 rivers**

**BOD range criteria for Priority IV is between 6-10 mg/l.**

**1.1 River Tungabhadra**

Progress Report of River **Tungabhadra at Kurnool** on revised action plan:

<b>Sl No</b>	<b>Activity to be Monitored</b>	<b>Time Line</b>	<b>Submission of Progress by State/compliance Status</b>
1	Ensure 100% Treatment of Sewage at least in –situ remediation	31.03.2020	At present 3 no's of STPs of 0.80 MLD each are functioning and 2no's of 10+2 MLD STPs are Under construction and for Remaining – 10 no's – 41.60 MLD DPR prepared
	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	For Commencement of STPs of 2 no's of 10+2 MLD STPs are Under construction and executed by PH, Kurnool and will be completed by May 2021. For Remaining – 10 no's – 41.60 MLD DPR prepared.
2	Time line for completing all steps of action plans including completion of setting up STP's and their commissioning	31.03.2021	Construction of 10.0 MLD STP and 2.0 MLD STP is under progress and will be completed by 31.03.2021
5	Chief Secretaries may setup appropriate Monitoring mechanism at state level <ul style="list-style-type: none"> <li>• Specific accountability of Nodal authorities not below the secretary level.</li> <li>• Chief Secretaries may have an accountable person attached in their office for this Purpose.</li> </ul> Monitoring at State Level must take place	22.01.2020  22.01.2020  Fortnightly Commencing 21.12.2019	The file is under circulation for appointment of Nodal officer
6.1	Progress Report may be furnished by the states/UTs to <ul style="list-style-type: none"> <li>• Secretary, Ministry of Jal Shakthi</li> </ul> Member Secretary, CPCB	Monthly  (Preferably before 20 <sup>th</sup> of every month)	Noted
	Progress Report may be comprised of details along with completion timelines on:		
	i) Identification of polluting sources including drains contributing to river pollution and action as per NGT Order on in-situ treatment.	A total of 32 no's of Outfall points of the major disposal drains have been identified which are contributing to river pollution and provided wire meshes at all outfall points.	

	ii) Status of STPs, I&D and Sewerage Networks Details of Existing Infrastructure, Gap Analysis, Proposed along with completion Time Line.	At present 3 no's of STPs of 0.80 MLD each are functioning and 2 no's of 10+2 MLD STPs are Under construction and for Remaining – 10 no's – 41.60 MLD DPR prepared.
	iii) Status of CETPs Details of Existing CETP and ETP infrastructure, Gap Analysis Proposed along with completion time line, NO of Industries and complying status.	<ul style="list-style-type: none"> <li>• No CETP is existing in the Jurisdiction of Kurnool.</li> <li>• No industry is discharging the industrial effluents into river stretch i.e., Tungabhadra river. No non-complying units, illegal units operating in the catchment of polluted river stretch.</li> <li>• Only, domestic sewage is being discharged in to the River Tungabhadra</li> <li>• At present 4KLD of Effluent Treatment plant is functioning at Slaughter house, Gareeb nagar.</li> </ul>
	iv) Status of Solid waste Management& Details of Processing Facilities Details of Existing Infrastructure,Gap Analysis,Proposed along with completion timeline	<ul style="list-style-type: none"> <li>• Total wet waste generation is130 TPD.</li> <li>• For processing wet waste 2<sup>nd</sup> call of RFP to be invited.</li> <li>• Total Dry waste generation is 40 TPD. For processing dry waste 2nd call of RFP invited.</li> <li>• At present nearly 1.50 lakh metric tonnes of legacy waste was dumped at abandoned compost yard at Joharapuram. For Bio remediation of land RFP invited and bidder was finalised and submitted to Government for release of funds (7.95 Crores )</li> </ul>
	v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river	i) Latest water quality of Tungabhadra River at Bavapuram is tabulated (Annexure- I)
	vi) Preventing dumping of waste and scientific waste management including bio-medical waste, Plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams, etc	<ul style="list-style-type: none"> <li>• 100 % door to door collection of waste is already implemented and awareness is being created to public through announcement vehicle regularly in all colonies not to dispose garbage into river stretches</li> <li>• Part of river stretches, Corporation is implementing greenery and avenue plantation. For all disposal drains, grills, meshes were provided at disposal points to avoid garbage mixing into river streches.</li> </ul>
	5. Ground water regulation	Ground water quality is being regularly monitored by Ground water Department.
	6. Adopting good irrigation practices	Regularly attending the maintenance works for free flow of drain water.
	7. Protection and management of flood plain zones(FPZ),	No erosion of flood plain or flood banks is observed
	8. Rain water harvesting	At present rain water harvesting structures are constructed in all Municipal Schools and Municipal and Govt. Buildings and municipal open spaces. Further the Town planning staff are insisting for construction of rain water Harvesting structures in all Apartments.

	9. Plantation on both sides of the river	Part of river stretches, Kurnool Municipal Corporation is implementing greenery and avenue plantation. Further it will be continued for plantation along river bank within city limits.
	10. Setting up biodiversity parks on flood plains by removing encroachment.	Encroachments are being removed in flood plain areas.

Progress Report of River **Tungabhadra at Mantralayam** on revised action plan:

SI No	Activity to be Monitored	Time Line	Submission of Progress by State/compliance Status
1	Ensure 100% Treatment of Sewage at least in –situ remediation	31.03.2020	4 MLD capacity of 2 nos STP – DPR was prepared and submitted to higher authority for administrative sanction
	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	4 MLD capacity of 2 nos STP – DPR was prepared and submitted to higher authority for administrative sanction
2	Time line for completing all steps of action plans including completion of setting up STP's and their commissioning	31.03.2021	4 MLD capacity of 2 nos STP – DPR was prepared and submitted to higher authority for administrative sanction Timeline:31.03.2021
5	Chief Secretaries may setup appropriate Monitoring mechanism at state level <ul style="list-style-type: none"> <li>• Specific accountability of Nodal authorities not below the secretary level.</li> <li>• Chief Secretaries may have an accountable person attached in their office for this Purpose.</li> </ul>	22.01.2020  22.01.2020	The file is under circulation for appointment of Nodal officer.
	Monitoring at State Level must take place	Fortnightly Commencing 21.12.2019	
6.1	Progress Report may be furnished by the states/UTs to <ul style="list-style-type: none"> <li>• Secretary, Ministry of Jal Shakti, Member Secretary, CPCB</li> </ul>	Monthly  (Preferably before 20 <sup>th</sup> of every month)	Noted
Progress Report may be comprised of details along with completion timelines on:			
	i) Identification of polluting sources including drains contributing to river pollution and action as per NGT Order on in-situ treatment.	<ul style="list-style-type: none"> <li>• Most of the drains carrying sewage have been identified.</li> <li>• 8 storm water drains have been identified and 42 wire mesh have also been provided.</li> </ul>	

	ii) Status of STPs, I&D and Sewerage Networks Details of Existing Infrastructure, Gap Analysis, Proposed along with completion Time Line.	4 MLD capacity of 2 nos STP – DPR was prepared and submitted to higher authority for administrative sanction Timeline:31.03.2021
	iii) Status of CETPs Details of Existing CETP and ETP infrastructure, Gap Analysis Proposed along with completion time line, NO of Industries and complying status.	<ul style="list-style-type: none"> <li>• No CETP is existing in the Jurisdiction of Kurnool.</li> <li>• No industry is discharging the industrial effluents into river stretch i.e., Tungabhadra river.</li> <li>• No non-complying units, illegal units operating in the catchment of polluted river stretch only, domestic sewage is being discharged in to the River Tungabhadra</li> </ul>
	iv) Status of Solid waste Management& Details of Processing Facilities Details of Existing Infrastructure,Gap Analysis,Proposed along with completion timeline	SWPC Centre is existing with all infrastructure . At present it is not functional due to lack of man power. Efforts are going on to make it functional at the earliest
	v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river	i) Latest water quality of Tungabhadra River is tabulated (Annexure- I)
	vi) Preventing dumping of waste and scientific waste management including bio-medical waste, Plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams, etc	SWPC Centre is existing with all infrastructure. At present it is not functional due to lack of man power. Efforts are going on to make it functional at the earliest
5.	Ground water regulation	Ground water quality is being regularly monitored by Ground water Department.
6.	Adopting good irrigation practices	Regularly attending the maintenance works for free flow of drain water.
7.	Protection and management of flood plain zones(FPZ),	No erosion of flood plain is observed in the reach. The flood banks are being protected as and when found necessary
8.	Rain water harvesting	--
9.	Maintaining minimum environmental flow of river	In the Tungabhadra river, numbers of flood days are very meagre which will be observed in peak monsoon period only
10.	Plantation on both sides of the river	The river bed plantation is proposed on both sides of the river with 10mt width.
11.	Setting up biodiversity parks on flood plains by removing encroachment.	Revenue and Gram Panchayat of Mantralayam are removing the encroachments regularly. Presently No proposal for biodiversity park at flood plains

## 1.2 River Kundu:

Progress Report of **River Kundu** on revised action plan

SI No	Activity to be Monitored	Time Line	Submission of Progress by State/compliance Status
1	Ensure 100% Treatment of Sewage at least in –situ remediation	31.03.2020	10 MLD capacity of STP – The work taken up by the Public Health Department ,Work grounded and for Remaining capacity of required STP, DPR was prepared and submitted to Govt for sanction and it may be completed by the end of March-2021
	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	10 MLD capacity of STP – The work taken up by the Public Health Department, Work grounded and for Remaining capacity of required STP DPR was prepared and submitted to Govt for sanction and it may be completed by the end of March-2021.
2	Time line for completing all steps of action plans including completion of setting up STP's and their commissioning	31.03.2021	10 MLD capacity of STP – The work taken up by the Public Health Department , work grounded and for Remaining capacity of required STP DPR was prepared and submitted to Govt for sanction and it may be completed by the end of March-2021
5	Chief Secretaries may setup Appropriate Monitoring mechanism at state level <ul style="list-style-type: none"> <li>• Specific accountability Nodal authorities not below the secretary level.</li> <li>• Chief Secretaries may have an accountable person</li> </ul> Monitoring at State Level must take place.	22.01.2020  22.01.2020  Fortnightly Commencing 21.12.2019	The file is under circulation for appointment of Nodal officer
6.	Progress Report may <ul style="list-style-type: none"> <li>• Secretary, Ministry of Jal Shakti</li> <li>Member Secretary, CPCB</li> </ul>	Monthly (preferably before 20 <sup>th</sup> of every month)	Noted
Progress Report may be comprised of details along with completion timelines on:			
	xiv. Identification of polluting sources including drains contributing to river pollution and action as per NGT Order on in-situ treatment.	<ul style="list-style-type: none"> <li>• Most of the drains carrying sewage have been identified.</li> <li>• 8 storm water drains have been identified and 42 wire mesh have also been provided.</li> </ul>	

	<p>xv. Status of STPs, I&amp;D and Sewerage Networks Details of Existing Infrastructure,</p> <p>Gap Analysis, Proposed along with completion Time Line.</p>	<p>10 MLD capacity of STP – The work taken up by the Public Health Department , Work grounded and for Remaining capacity of required STP DPR was prepared and submitted to Govt for sanction and it may be completed by the end of March-2021</p>
	<p>xvi. Status of CETPs Details of Existing CETP and ETP infrastructure, Gap Analysis Proposed along with completion time line, NO of Industries and complying status.</p>	<ul style="list-style-type: none"> <li>• No CETP is existing in the Jurisdiction of Kurnool.</li> <li>• No industry is discharging the industrial effluents into river stretch i.e., Kundu river. No non- complying units, illegal units operating in the catchment of polluted river stretch</li> <li>• However, the Nandyal Municipality is discharging the sewage water in to the River Kundu.</li> </ul>
	<p>xvii. Status of Solid waste Management&amp; Details of Processing Facilities Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline</p>	<ul style="list-style-type: none"> <li>• All Dry waste i.e 30 TPD which is coming from the ULB is send to MRF, Total wet waste generated from the ULB is 60 TPD.</li> <li>• Out of 60 TPD, daily 30 TPD is treated by Aerobic composting method i.e Box composting and vermi-composting and windrow composting</li> </ul>
	<p>xviii. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river</p>	<p>Latest water quality of Kundu River at Udumulapadu, Nandyal is tabulated (Annexure-II)</p>
	<p>xix. Preventing dumping of waste and scientific waste management including bio-medical wasted, Plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams, etc</p>	<ul style="list-style-type: none"> <li>• Plastic waste quantity:- <ul style="list-style-type: none"> <li>a) Generation:-2 MT</li> <li>b) Treatment:-0</li> <li>c) Send to MRF</li> </ul> </li> <li>• Bio medical waste – All the HCFs located in the Kurnool District have tied up with CBMWTF for treatment and disposal of waste (100% achieved).</li> </ul>
	<p>11. Ground water regulation</p>	<p>Ground water regulation is being regularly monitored by Ground water Department.</p>
	<p>12. Adopting good irrigation practices</p>	<p>Regularly attending the maintenance works for free flow of drain water.</p>
	<p>13. Protection and management of flood plain zones(FPZ),</p>	<p>No erosion of flood plain is observed in the reach. The flood banks are being protected as and when found necessary</p>
	<p>14. Rain water harvesting</p>	<p>--</p>
	<p>15. Maintaining minimum environmental flow of river</p>	<p>In the Kundu river, numbers of flood days are very meager which will be observed in peak monsoon period only.</p>
	<p>16. Plantation on both sides of the river</p>	<p>The river bed plantation is proposed on both sides of the river with 10mt width.</p>
	<p>17. Setting up biodiversity parks on flood plains by removing encroachment.</p>	<p>Revenue and Municipal Corporation of Nandyal are removing the encroachments regularly. Presently No proposal for biodiversity park at flood plains.</p>



## 2. Progress report of Priority –V for the month of June 2020 for 3 rivers

- BOD range criteria for Priority V is between 3-6 mg/l

### 2.1 River Godavari:

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	Total generation sewage in Rajamahendravaram municipal corporation 60 MLD. At present 30 MLD STP is in operation.
	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	Action is being taken to construct 5 MLD STP at Dowaleswaram under AMRUTH Scheme at a cost of Rs.17.98 Crores and for balance 25 MLD STP the RMC has submitted proposals to GoI and awaiting for sanction under NRCP funds.
2	Timeline for completing all steps of action plans including completion of setting up STPs and their commissioning	31.03.2021	31.03.2021
5	Chief Secretaries may set up appropriate monitoring mechanism at State level		The file is under circulation for appointment of Nodal officer
	<ul style="list-style-type: none"> <li>• Specifying accountability of nodal authorities not below the Secretary level</li> </ul>	22.01.2020	
	<ul style="list-style-type: none"> <li>• Chief Secretaries may have an accountable person attached in their office for this purpose.</li> </ul>	22.01.2020	
	<ul style="list-style-type: none"> <li>• Monitoring at State level must take place</li> </ul>	Fortnightly Commencing 21.12.2019	Being monitored regularly
6	Progress report may be furnished by the States/UTs to <ul style="list-style-type: none"> <li>• Secretary, Ministry of Jai Shakti</li> </ul>	Monthly (preferably before 20 <sup>th</sup> of every month)	Noted

6.1	Progress Report may be comprised of details along with completion timelines	
	i. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment.	Three drains are i.e., Nallah Channel, Ava Drain and Mallayyapeta Drains merging into River Godavari in the entire sketch of Rajamahendravaram municipal corporation. All the drains should be properly designed with the interception and diversion plan.
	ii. Status of STPs, I&D and sewerage networks Details of Existing Infrastructure, Gap Analysis, proposed along with completion timeline.	At present 30 MLD STP is in operation. Action is being taken to construct 5 MLD STP at Dowaleswaram under AMRUTH Scheme at a cost of Rs.17.98 Crores and for balance 25 MLD STP proposal submitted to Gol. and awaiting for sanction under NRCP funds. DPR proposals for laying new sewage pipelines and house connections proposals have submitted to the Government for an amount of Rs. 1273.29 Crores.
	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 existing in the catchment of River Godavari at Rajamahendravaram. One industry is located in the catchment area of River Godavari i.e., M/s. Andhra Paper Limited. The industry has adopted a unique land (natural sand bed) treatment system for its treated effluent based on the know-how and designs approved by NEERI.
	iv. Status of Solid Waste Management & Details of Processing Facilities Details of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline	Total waste generation is about 210 TPD. The existing facility is vermi composting of 5 TPD & MRF Centres – 2 Tonnes for remaining solid waste, the RMC is proposed waste to energy plant – 200 TPD and Wet Waste Management (Bio- methanization) - 25 TPD.
	v. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;	The water quality is being regularly monitored in the River Godavari, Drains and Ground Water. (Annexure- 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.	<ol style="list-style-type: none"> <li>1. For commissioning of integrated waste management facilities, work awarded for establishment of Bio-methanization plant at Kondagunturu and site clearance is in progress.</li> <li>2. For C&amp;D waste processing plant work awarded for waste processing unit near quarry junction in 49 division.</li> <li>3. MRF centres entrusted to NGO Asuradala, Bengalur and centres will be commenced within a week time</li> </ol>

		4. There are about 188 no's HCF are operating in Rajamahendravaram city. It is estimated that about 400 Kgs / day Bio-waste is generated and same is disposed to Common Bio-Medical Treatment Facility i.e., M/s. EVB Technologies Ltd., Kanavaram (V), Rajanagaram (M), East Godavar District.
	vii. Ground water regulation.	Ground water regulation is being regularly monitored by Ground water Department.
	viii. Adopting good irrigation practices,	Regular maintenance works for free flow of drain water.
	ix. Protection and management of Flood Plain Zones (FPZ),	Proposed stone pitching to control the erosion of high margin lands adjoining the River Godavari. Estimates have been submitted to Government and awaited for administrative approval.
	x. Rain harvesting,	River Godavari is major river receives heavy floods. Hence the rain harvesting ground water recharging schemes cannot be taken up.
	xi. Maintaining minimum environmental flow of river	The River Godavari received major floods from June to October every year. The average quantum of water let into the Bay of Bengal is about 1500 TMC every year. To utilize this flood water Polavaram irrigation Project is proposed across river Godavari. The project is under progress. It is not possible to take up any minor projects/schemes across river Godavari.
	xii. Plantation on both sides of the river.	Adjacent to banks of River Godavari green coverage / parks wherever feasible will be developed by Andhra Pradesh Forest Department & Public Health Department.
	xiii. Setting up biodiversity parks on flood plains by removing encroachment.	Revenue and Municipal Corporation of Rajahmundry are removing the encroachments regularly. No proposal for biodiversity park at flood plains.

## 2 River Nagavali:

SL. No.	Activity to be monitored	Timeline	Submission of Progress by Status/UT Compliance Status
1	Ensure 100% treatment of sewage at least in-situ remediation	31-03-2020	Under AMRUT programme one 10 MLD capacity STP is being constructed by the Public Health Engg. Dept. scheduled to commission by March 2021. After completion it will be able to process at least 60% of the total sewage generated in the ULB.
	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	10 MLD capacity STP is being set up under AMRUT being executed by Public Health Engg. Dept.
2	Timeline for completing all steps of action plans including completion of setting up STPs and thier commissioning	31-03-2021	31-03-2021
5	Chief Secretaries may up appropriate monitoring mechanism at State level Specifying accountability of nodal authorities not below the secretaries level. Chief Secretaries may have an accountable persion attached in thie office for this purpose.	22.01.2020  22.01.2020	The file is under circulation for appointment of Nodal officer
	Monitoring at State level must take place	Fortnightly Commencing 21.12.2019	Noted.
	Progress report may be furnished by the State / Uts to Secretaries, Ministry of Jal Shakti Member Secretaries, CPCB	Monthly (preferably before 20th of every month)	Noted
6.1	Progress report may be comprised of details along with completion timelines on		
	(i) Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitutreatment	There are 24 out fall drains merging into the river Nagavali in the entire stretch of ULD. Out of these 9 major drains have been provided with gates in order not to enter solid wastes into the river. Further it is proposed to provide gates for all the merging drain points..	
	(ii) Status of STPs, C&D and sewerageDetails of Existing Infrastructure, Gap Analysis, Proposed along with completion timeline	At present there is no infrastructure available pertaining to STP, C&D and sewage systems.	
	(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 is existing in the Jurisdiction  No industry is discharging the industrial effluents into river stretch	

	(iv) Status of Solid Waste Management & Details of Processing Facilities, Details of Existing, Gap Analysis, Proposed along with completion timeline	At present solid waste management is being taking up with all the activities. 1. 100% source collection 2. Source segregation is being done partially 3. Home composting is being done partially 4. Generation of power through bio gas plant Processing 6 wet waste through wind row system partially.
	(v) Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river	The water quality is being regularly monitored (Annexure- IV)
	(vi) Preventing dumping of waste and scientific waste management including bio-medical wastes, plastic waste and decentralizing waste processing Infrastructure, network processing, including waste generated for hotels, ashrams,etc.	At present as per the prevailing situations the entire solid waste being generated except bio medical waste is being dumped in the yard at Thandevalasa. Proposals are being prepared for the process of legacy waste management. Bio medical waste is being collected by third party and is being sent for CBMTF
	(vii) Ground water regulation	Ground water quality is being regularly monitored by Ground water Department.
	(viii) Adopting good irrigation practices	Regular maintenance works for free flow of drain water.
	(ix) Protection and management of Flood Plain Zones (FPZ)	No erosion of flood plain or flood banks is observed
	(x) Maintaining minimum environmental flow of river (xii) Plantation on both sides of the river	Number of flood days are very meager which will be observed in peak monsoon period only.
	(xiii) Setting up biodiversity parks on flood plains by removing encroachment	The entire stretch of river covered with the ULB is provided with river protection wall. There are no encroachments.

## 2.3 River Krishna:

### Progress Report of River Krishna on revised action plan

SI No	Activity to be Monitored	Time Line	Submission of Progress by State/compliance Status
1	Ensure 100% Treatment of Sewage at least in –situ remediation	31.03.2020	At present there are (7) STPs having a total capacity of 130 MLD and one no. of 20 MLD capacity at Jakampudi is under construction.
	Commencement of setting up of STPs and connecting all the drains and other sources of generation of Sewage to the STPs must be ensured.	31.03.2020	
2	Time line for completing all steps of action plans including completion of setting up STP's and their commissioning	31.03.2021	Construction of 20 MLD capacity of STP at Jakkampudi under construction and mechanical works are under progress.
5	Chief Secretaries may setup appropriate Monitoring mechanism at state level <ul style="list-style-type: none"> <li>• Specific accountability of Nodal authorities not below the secretary level.</li> <li>• Chief Secretaries may have an accountable person attached in their office for this Purpose.</li> </ul> Monitoring at State Level must take place	22.01.2020	The file is under circulation for appointment of Nodal officer
		22.01.2020 Fortnightly commencing 21.12.2019	
6	Progress Report may be furnished by the states/UTs to <ul style="list-style-type: none"> <li>• Secretary, Ministry of Jal Shakthi</li> </ul> Member Secretary, CPCB	Monthly (preferably before 20 <sup>th</sup> of every month)	Noted
Progress Report may be comprised of details along with completion timelines on:			
	i. Identification of polluting sources including drains contributing to river pollution and action as per NGT Order on in-situ treatment.	Two works at an estimated costs of Rs.434.60 lakhs & Rs.500 lakhs were taken up to provide 19.70 km length UGD lines in Circle-1 area. Already 9.00 km length completed and the balance work is expected to be completed by September, 2020. Under AMRUT construction of sewer lines was taken up at a cost of Rs.39.88 Crores and work is nearing completion	
	ii. Status of STPs, I&D and Sewerage Networks Details of Existing Infrastructure, Gap Analysis, Proposed along with completion Time Line.	With regard to construction of 20 MLD capacity of STP at Jakkampudi, it is under construction and mechanical works are under progress.	

	<p>iii. Status of CETPs Details of Existing CETP and ETP infrastructure, Gap Analysis Proposed along with completion time line, NO of Industries and complying status.</p>	<ul style="list-style-type: none"> <li>• No CETP is existing in the catchment area of river Krishna from Amaravathi to Hamsaladeevi stretch.</li> <li>• No industry is discharging the industrial effluents into river stretch i.e., Krishna river.</li> <li>• No non-complying units, illegal units operating in the catchment of river Krishna from Amaravathi to Hamsaladeevi stretch.</li> </ul>
	<p>iv. Status of Solid waste Management &amp; Details of Processing Facilities Details of Existing Infrastructure, Gap</p>	<p>VMC has allotted work to M/s. Zigma Global Environment Pvt. Ltd., for reclamation of the old dump yard at Ajith Singh Nagar in 42 acres. Approximately 2.5 lakh MT waste is already processed. Another 55830.31 MT of waste is processed from 14-02-2020 to 04-07-2020. Rs.10 crores is sanctioned to develop Park in reclaimed land.</p>
	<p>Analysis, Proposed along with completion timeline</p>	
	<p>v. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river</p>	<p>Latest water quality of Krishna River is tabulated (Annexure-V)</p>
	<p>vi. Preventing dumping of waste and scientific waste management including bio-medical waste, Plastic wastes and decentralizing waste processing, including waste generated from hotels, ashrams, etc</p>	<p><b><u>Plastic waste</u></b>  Generation of 285 tonnes of dry waste &amp; 5 tonnes of Plastic waste processing facility is established at MRF (Material Recovery Facility) Centre in collaboration with UNDP &amp; Coco-Cola Company at Ajith Singh Nagar.</p> <p>Nearly 177 Tons of Dry waste is sent to different processing plants through the Kabadiwalas are collecting the same plastic waste and handed over to the Coco Cola company and make it into chips. Hotels and Ashrams are tied up with Cube-Bio Energy and Ecogarb company waste is collected and disposed off in a safety manner.</p> <p><b><u>Bio medical waste</u></b> – All the HCFs located in the Krishna District have tied up with CBMWTF for treatment and disposal of waste (100% achieved)</p>
	<p>vii. Ground water regulation</p>	<p>Ground water regulation is being regularly monitored by Ground water Department.</p>
	<p>viii. Adopting good irrigation practices</p>	<p>Regularly attending the maintenance works for free flow of drain water.</p>
	<p>ix. Protection and management of flood plain zones (FPZ),</p>	<p>No erosion of flood plain or flood banks is observed in the reach from Amaravathi to Hamsala Deevi</p>
	<p>x. Rain water harvesting</p>	<p>--</p>
	<p>Xi Maintaining minimum environmental flow of river</p>	<p>Though ecological flows are to be maintained year long from Prakasam Barrage into Sea, it is not possible during non monsoon period due to inadequate releases from Upper reservoirs.</p>
	<p>xii. Plantation on both sides of the river</p>	<p>The river bed plantation is proposed on both sides of the river with 10mt width.</p>
	<p>xiii. Setting up biodiversity parks on flood plains by removing encroachment.</p>	<p>The entire stretch of river covered with the ULB is provided with river protection wall. There are no encroachments.</p>

## ANNEXURES

### Annexure- I

#### Water Quality For The River Tungabhadra:

Andhra Pradesh Pollution Control Board is monitoring water quality of river Tungabhadra at the following locations. Data pertaining to important parameters like, pH, Dissolved Oxygen, BOD, Fecal Coliform and TDS for the year, 2020 is as follows:

S. No.	Code	Location point
01	1785	Manthralayam, Kurnool Dist.
02	1174	Bhavapuram, Kurnool Dist.
03	4388	Upstream of Kurnool town before compliance with domestic sewage & after compliance of Rayalaseema alkalies industries at Gondiparla, Kurnool.
04	4389	Downstream of Kurnool town after compliance with domestic sewage at Gondiparla, Kurnool.

#### Month-wise data of water quality of river Tungabhadra, 2020

Parameters	Code	Jan	Feb	Mar	Apr	May	June	*Standard		
								Class A	Class B	Class C
pH	1785	7.9	7.8	7.9	7.3	7.2	7.7	6.0 – 8.5	6.0 – 9.0	
	1174	7.7	7.4	7.8	7.4	7.3	7.6			
	4388	7.0	7.1	7.2	6.6	6.2	6.7			
	4389	7.3	7.1	7.6	7.0	7.2	7.8			
DO	1785	5.6	5.3	5.9	5.4	5.7	5.7	6.0	5.0	4.0
	1174	5.5	5.7	5.7	6.2	5.5	5.4			
	4388	5.4	5.6	5.7	5.1	5.4	5.5			
	4389	5.3	5.5	5.0	4.3	5.4	5.8			
BOD	1785	2.2	2.3	2.7	2.6	2.8	2.5	2.0	3.0	3.0
	1174	2.3	2.5	2.5	1.6	3.0	2.5			
	4388	2.0	1.9	2.5	3.0	3.0	2.7			
	4389	2.5	2.8	2.8	2.9	2.3	2.3			
Fecal Coliform	1785	100	400	300	200	200	100	---	500	---
	1174	200	300	200	100	200	200			
	4388	100	100	100	300	200	200			
	4389	200	300	200	300	100	100			
TDS	1785	1120	897	626	686	952	817	500 - 2000		
	1174	810	845	764	1084	1210	956			
	4388	944	1012	984	1786	2010	1769			
	4389	756	745	603	1248	1328	1175			

Note: All values are expressed in mg/L except pH, Fecal coliform. Fecal Coliform is expressed in MPN count / 100 ml.

**Remarks:** BOD & fecal coliform values found to be within the standard limits stipulated for bathing at all the locations. However, the DO values found to be between 4.0 and 5.0 mg/lit. at certain instances at U/S & D/S of Kurnool town. Hence, they may be categorized as Class – C at these points.



## Annexure-II

### Water Quality for the River Kundu:

Andhra Pradesh Pollution Control Board is monitoring water quality of river Kundu at the following locations. Data pertaining to important parameters like, pH, Dissolved Oxygen, BOD, Fecal Coliform and TDS for the year, 2020 is as follows:

S. No.	Code	Location point
1	2351	At Nandyal, Kurnool Dist.

#### Month-wise data of water quality of river Kundu, 2020

Parameters	Jan	Feb	Mar	Apr	May	June	*Standard		
							Class A	Class B	Class C
pH	7.2	7.6	7.0	6.3	5.9	6.8	6.0 – 8.5		6.0 – 9.0
DO	5.3	5.2	4.9	4.7	5.2	5.1	6.0	5.0	4.0
BOD	2.3	2.5	2.4	1.2	2.8	2.0	2.0	3.0	3.0
Fecal Coliform	200	400	100	200	300	300	---	500	---
TDS	461	656	512	624	728	834	500 - 2000		
<b>Note:</b> All values are expressed in mg/L except pH, Fecal Coliform value. Fecal Coliform is expressed in MPN count / 100 ml.									
<b>Remarks:</b> BOD & Fecal Coliform values found to be within the standard limits stipulated for bathing.									

### Annexure-III

#### Water Quality for the River Godavari:

Andhra Pradesh Pollution Control Board is monitoring water quality of river Godavari at the following locations. Data pertaining to important parameters like, pH, Dissolved Oxygen, BOD, Fecal Coliform and TDS for the year, 2020 is as follows:

S. No.	Code	Location Point
1	4367	Koundinyamukti (Kukunur) border point between Andhra Pradesh & Telangana States, West Godavari Dist.
2	4359	After confluence with Sabari at Kunavaram (waddigudem), East Godavari Dist.
3	0014	Polavaram, West Godavari Dist.
4	1218	Upstream of Rajahmundry at Kumaradevam
5	2370	At Rajahmundry Upstream of Nalla channel
6	2371	At Rajahmundry Downstream of Nalla channel
7	1219	Downstream of Rajahmundry at Dhawaleswaram
8	4365	Upstream of Narasapuram town before confluence with sewage, West Godavari Dist.
9	4366	Downstream of Narasapuram town after confluence with town sewage, West Godavari Dist.
10	4358	Near GMC Balayogi bridge, Govalanka, East Godavari Dist.

#### Month-wise data of water quality of river Godavari, 2020

Parameter	Code	Jan	Feb	Mar	Apr	May	June	Standard		
								Class A	Class B	Class C
pH	4367	8.5	7.9	8.72	8.68	8.44	8.54	6.0 - 8.5	6.0 - 9.0	
	4359	7.9	7.8	7.49	7.69	--	--			
	0014	8.2	7.6	7.84	7.81	7.62	8.17			
	1218	8.2	7.9	8.48	7.79	7.79	8.14			
	2370	8.3	7.3	7.44	7.52	7.72	7.74			
	2371	8.2	7.9	7.87	7.46	7.70	8.12			
	1219	7.6	7.7	7.81	8.05	7.66	7.59			
	4365	7.7	7.0	7.76	7.50	7.79	8.29			
	4366	7.5	7.8	8.05	8.68	7.62	8.32			
	4358	7.5	7.7	7.0	7.8	7.92	8.11			
DO	4367	6.4	6.9	7.7	6.5	6.8	7.5	6.0	5.0	4.0
	4359	6.2	6.9	8.0	6.8	--	--			
	0014	6.5	6.8	6.5	6.6	6.9	6.5			
	1218	6.3	6.4	6.8	6.8	7.5	7.7			
	2370	7.8	6.5	8.5	6.8	7.2	7.2			
	2371	7.5	5.9	6.5	6.4	7.0	6.6			
	1219	6.5	7.5	8.4	6.2	6.6	6.3			
	4365	6.8	8.4	6.2	5.6	6.1	6.4			
	4366	7.4	6.0	6.0	5.3	5.9	6.2			
4358	6.0	6.6	4.8	5.8	5.0	4.8				
BOD	4367	1.4	2.0	1.8	1.9	2.2	1.5	2.0	3.0	3.0
	4359	2.0	1.3	1.5	1.3	--	--			
	0014	2.0	1.8	2.3	1.5	1.2	1.3			
	1218	1.3	1.8	1.4	1.2	1.1	1.2			
	2370	2.0	1.8	2.2	1.3	1.4	1.2			
	2371	2.5	2.3	1.8	2.0	1.8	2.0			
	1219	2.6	2.5	1.4	2.2	1.0	1.8			
	4365	2.2	2.2	2.0	2.2	1.6	1.6			
	4366	1.8	2.6	2.4	2.8	2.3	1.8			
4358	0.9	1.7	2.8	2.6	2.8	2.6				

<b>Fecal Coliform</b>	4367	11	15	11	4	9	4	---	500	---
	4359	4	11	3	4	--	--			
	0014	7	9	7	4	<3	4			
	1218	11	11	4	4	4	3			
	2370	11	7	11	7	7	7			
	2371	15	9	15	11	11	11			
	1219	15	15	15	9	9	9			
	4365	15	7	11	9	11	15			
	4366	20	21	11	15	15	21			
	4358	11	11	9	7	7	9			
<b>TDS</b>	4367	212	508	23 2	320	408	192	500 - 2000		
	4359	86	98	74	74	--	--			
	0014	160	144	18 0	72	116	144			
	1218	184	168	18 0	78	120	152			
	2370	176	136	16 8	108	188	144			
	2371	188	186	14 8	136	212	162			
	1219	180	180	12 6	84	152	136			
	4365	1352 0	136	27 14 0	3286 8	21312	13240			
	4366	1942 4	1810 4	35 27 6	3484 0	29576	18460			
	4358	1769 2	2658 4	42 12	3147 2	25752	10120			
Note:: (1) All values are expressed in mg/L except pH Fecal .Coliform is expressed in MPN count / 100 ml.										
<b>Remarks:</b> BOD & fecal coliform values found to be within the standard limits stipulated for bathing at all the locations except at U/S & D/S of Narsapuram town. High TDS values at Narsapuram & GMC Balayogi bridge, Govalanka could be attributed to the intrusion of backwaters of Bay of Bengal.										

#### River Godavari: Drains Data

- Sample of untreated sewage collected from Nalla Channel before confluence into River Godavari / which is pumping into NRCP channel /i.e.,partly inlet of STP. Rajamahendravaram, East Godavari District

Sl. No.	DATE OF SAMPLE COLLECTION	PARAMETERS				
		pH	TSS	TDS	COD	BOD
1	07.01.2020	7.41	90	280	160	72
2	11.02.2020	7.90	94	480	152	64
3	05.03.2020	7.35	73	2980	240	130
4	12.04.2020	7.16	52	540	200	78
5	05.05.2020	7.78	43	608	96	28
6	09.06.2020	7.61	98	464	108	28

All values are expressed in mg/l expect Ph

- Sample of untreated sewage collected from Ava drain (i.e., Near Sai Baba Temple) Dowleswaram

before Confluence into River Godavari, East Godavari District

Sl. No.	DATE OF SAMPLE COLLECTION	PARAMETERS				
		PH	TSS	TDS	COD	BOD
1	07.01.2020	7.18	81	190	112	48
2	11.02.2020	7.82	152	612	180	70
3	05.03.2020	7.88	184	2464	188	96
4	12.04.2020	7.20	94	520	172	70
5	05.05.2020	8.50	13	596	64	22
6	09.06.2020	7.60	60	628	48	13

2. Sample of untreated sewage collected from Mallayyapeta drain before joins into River Godavari at Mallayyapeta area

Rajahmendravaram, East Godavari District

Sl. No.	DATE OF SAMPLE COLLECTION	PARAMETERS				
		pH	TSS	TDS	COD	BOD
1	07.01.2020	7.21	544	340	672	260
2	11.02.2020	8.06	213	648	148	60
3	05.03.2020	8.05	122	4276	156	72
4	12.04.2020	7.32	88	480	152	64
5	05.05.2020	8.02	173	516	120	38
6	09.06.2020	7.55	208	1368	112	32

All values are expressed in mg/l except Ph

#### Ground Water Quality At Catchment Area Of River Godavari, Rajamahendravaram

Sample Source:

2019-11 W-040	Hand pump sample collected at house of Sri B. Gridhar, H.No.30-15-70/A, Kotilingalapeta, Street No.1, Rajamahendravaram.
2019-11 W-041	Bore well sample collected at M/s Krovvidi Mansion, Kotilingalapeta, Rajamahendravaram.
2019-11 W-042	Bore well sample collected at M/s. Saras River side apartment, H.No.8-9-57/58, Venkayalavari Street, Rajamahendravaram.
2019-11 W-043	Bore well sample collected at Sri Shiridi Saibaba temple adjacent to Ava Drain, Dowleswaram.
2019-11 W-044	Bore well sample collected at STP, Hukumpeta, Rajamahendravaram

S.No.	Parameters	2019-11W-040	2019-11 W-041	2019-11W-042	2019-11W-043	2019-11 W-044
1.	pH	6.93	6.81	6.84	7.18	7.12
2.	Conductivity (as $\mu\text{S}/\text{cm}$ )	781	1252	793	227	840
3.	Total Dissolved Solid at 105oC	620	1060	632	179	620
4.	Total	320	584	292	28	240

	Hardness (as CaCO <sub>3</sub> )					
5.	Total Alkalinity	348	460	320	140	160
6.	Chlorides (as Cl)	98	152	64	20	104
7.	Calcium ( as Ca <sup>2+</sup> )	96	104	72	32	64
8.	Magnesium (as Mg <sup>2+</sup> )	19.44	78.73	27.2	48.6	19.44
9.	Nitrates (as NO <sub>3</sub> )	1.37	17.22	29.30	0.66	15.58
10.	Phosphates (as PO <sub>4</sub> )	0.03	BDL	0.78	BDL	0.04
11.	Sulphates (as SO <sub>4</sub> )	47	94.16	35.86	1.64	32.18
12.	Fluorides (as F)	0.14	0.71	0.60	0.38	0.76

All values expressed in mg/l except pH  
BDL: Below Detectable Limit

Andhra Pradesh Pollution Control Board is monitoring water quality of river Nagavali at the following locations. Data pertaining to important parameters like, pH, Dissolved Oxygen, BOD, Fecal Coliform and TDS for the year, 2020 is as follows:

S. No.	Code	Location point
01	4351	River Nagavali at Kureru, Vizianagaram Dist.
02	1448	Thotapally, Vizianagaram Dist.
03	4346	River Nagavali U/S of Srikakulam town.
04	4347	River Nagavali D/S of Srikakulam town.

Parameters	Code	Jan	Feb	Mar	Apr	May	June	*Standard		
								Class A	Class B	Class C
pH	4351	7.5	7.8	7.76	8.25	8.0	8.3	6.0 – 8.5	6.0 – 9.0	
	1448	7.5	8.0	8.13	8.46	7.71	8.11			
	4346	7.2	7.8	Dried	8.38	7.86	8.25			
	4347	7.1	7.1	Dried	8.73	7.84	8.2			
DO	4351	8.0	6.9	6.7	6.5	6.0	6.5	6.0	5.0	4.0
	1448	6.8	5.9	6.5	6.7	5.9	5.9			
	4346	8.2	8.3	Dried	6.2	6.0	8.2			
	4347	5.5	7.9	Dried	6.0	5.8	8.0			
BOD	4351	2.8	1.0	1.4	1.4	1.5	1.0	2.0	3.0	3.0
	1448	2.7	2.7	2.5	2.2	1.4	1.4			
	4346	2.6	2.7	Dried	2.0	1.2	2.4			
	4347	4.5	2.9	Dried	2.8	2.3	2.8			
Fecal Coliform	4351	11	7	15	7	9	11	---	500	---
	1448	11	15	11	7	4	4			
	4346	9	21	Dried	15	7	7			
	4347	15	23	Dried	21	11	11			
TDS	4351	136	180	260	140	252	188	500 - 2000		
	1448	156	232	232	220	216	160			
	4346	332	312	Dried	224	240	208			
	4347	748	284	Dried	418	276	214			
Note: All values are expressed in mg/L except pH, Fecal coliform. Fecal coliform is expressed in MPN count / 100 ml.										
<b>Remarks:</b> BOD & Fecal coliform values found to within the standard limits stipulated for bathing at all the locations.										

Annexure-V

**Water Quality for the River Krishna**

Andhra Pradesh Pollution Control Board is monitoring water quality of river Krishna at the following locations. Data pertaining to important parameters like, pH, Dissolved Oxygen, BOD, Fecal Coliform and TDS for the year, 2020 is as follows:

S. No.	Code	Location point
01	1175	Sangameswaram, Kurnool Dist.
02	3083	Srisailam, Kurnool Dist.
03	4381	After confluence with river Musi at Vadapalli, Guntur Dist.
04	1786	Vedadri, Krishna Dist.
05	1787	Amaravathi, Guntur Dist.
06	0025	Prakasham barrage, Vijayawada, Krishna Dist.
07	4375	Pavitrasangamam at Ibrahimpatnam, Krishna Dist.
08	1782	Hamsaladeevi, Krishna Dist.

**Month-wise data of water quality of river Krishna, 2020:**

Parameter s	Code	Jan	Feb	Mar	Apr	May	June	*Standard		
								Class A	Class B	Class C
pH	1175	7.4	7.3	7.4	6.9	6.6	7.50	6.0 - 8.5	6.0 – 9.0	
	3083	7.3	7.5	7.7	7.1	6.7	7.10			
	4381	7.9	7.9	7.72	7.71	7.69	7.97			
	1786	7.8	7.8	7.82	7.29	7.81	7.97			
	1787	7.7	7.6	7.82	7.47	7.67	7.83			
	0025	7.8	7.2	7.80	7.71	7.74	7.92			
	4375	7.8	7.7	7.72	7.67	7.79	7.82			
	1782	7.8	8.0	7.96	7.93	7.41	7.68			
DO	1175	6.4	7.3	6.4	4.9	5.6	5.9	6.0	5.0	4.0
	3083	6.3	7.5	6.3	5.2	5.8	5.9			
	4381	7.5	7.9	7.4	7.2	6.8	7.3			
	1786	7.5	7.8	6.8	6.8	6.9	7.6			
	1787	7.4	7.6	7.3	7.1	6.9	7.3			
	0025	7.2	7.2	7.1	7.2	7.2	7.1			
	4375	7.2	7.7	7.2	7.1	7.2	7.1			
	1782	4.6	8.0	4.6	4.8	4.5	4.8			
BOD	1175	1.5	1.3	1.2	1.0	2.2	1.7	2.0	3.0	3.0
	3083	1.3	1.2	1.0	0.8	2.2	1.2			
	4381	1.6	1.8	1.8	0.8	2.4	2.0			
	1786	1.2	1.4	1.6	1.4	2.2	1.8			
	1787	1.0	1.2	1.0	0.8	1.2	1.4			
	0025	1.2	1.2	1.2	1.0	1.6	1.2			
	4375	1.0	1.2	1.0	0.8	1.6	1.4			
	1782	2.2	2.4	2.6	2.2	2.6	2.0			
Fecal Coliform	1175	100	100	100	100	100	100	---	500	---
	3083	<3	200	300	100	100	100			
	4381	<3	<3	<3	<3	<3	<3			
	1786	<3	<3	<3	<3	<3	<3			
	1787	<3	<3	<3	<3	<3	<3			
	0025	<3	<3	<3	<3	<3	<3			
	4375	<3	<3	<3	<3	<3	<3			
	1782	<3	<3	<3	<3	<3	<3			
TDS	1175	316	402	386	482	520	587	500 - 2000		
	3083	318	326	356	340	364	368			
	4381	440	410	460	376	732	446			
	1786	320	490	510	464	620	446			
	1787	342	365	420	474	620	398			
	0025	265	340	390	407	550	425			
	4375	258	270	284	250	468	560			

	1782	22800	12720	22100	2330 0	1930 0	2060 0	
<p>Note: All values are expressed in mg/L except pH, Fecal coliform. Fecal Coliform is expressed in MPN count / 100 ml.</p>								
<p><b>Remarks:</b> BOD &amp; fecal coliform values found to be within the standard limits stipulated for bathing at all the locations. High TDS values at Hamsaladeevi could be attributed due to the intrusion of backwaters of Bay of Bengal.</p>								