

**GOVERNMENT OF ANDHRA PRADESH
MUNICIPAL ADMINISTRATION DEPARTMENT**

From

Sri M.Mallikarjuna Nayak, IAS.,
Commissioner & Director of
Municipal Administration,
Andhra Pradesh,
Vaddeswaram, Mangalagiri.

To

The registrar
Hon'ble National green Tribunal
south zone chennai

Letter Roc.No.4392198/2021/L, dated 17-02-2022

Madam,

Sub: APPCB - Hon`ble National Green Tribunal, South Zone, Chennai - Orders issued in OA No.27/2016 - Action Taken for prevention of Krishna and Tungabhadra Rivers from pollution & implementation of SWM Rules, 2016 - Progress Report submitted - Reg.

- Ref: 1. Hon`ble National Green Tribunal, Southern Zone, Chennai Orders dated 28-7-2021 & 9-11-2021 issued in OA NO.27/2016.
2. This Office Lr.Roc.No.4392198/2021/L, dt:16-12-2021.

-:-

In continuation of this office letter vide reference 2nd cited, it is to inform that, the Hon'ble National Green Tribunal, New Delhi in OA No.673/2018 has issued directions to all concerned States/UTs to take action for implementation of approved action plans for rejuvenation of Polluted River Stretches to be fit at least for bathing purposes and furnish the monthly progress reports to the Secretary, Ministry of Jal Shakti, New Delhi.

Accordingly, Monthly Progress Reports on implementation of Action Plans as directed from time to time in OA No.673/2018 of the Hon'ble National Green Tribunal, New Delhi are being submitted regularly (copies enclosed) to the Secretary, Ministry of Jal Shakti, New Delhi.

Further, it is submitted that the following is the ULB wise status report on prevention of Krishna and Tungabhadra Rivers from pollution & implementation of SWM Rules, 2016.

Vijayawada Municipal Corporation:

Sewage Generation in MLD : 158.00 MLD
Capacity of Existing STPs : 130.00 MLD
Capacity of STPs in progress : 20.00 MLD

Liquid Waste Management:

- 7 STPs treating 130.00 MLD are functioning
- 1 STP is under construction with a capacity of 20.00 MLD with Rs.55.56 Crs with the own funds of Municipal Corporation. 83% work (Construction) of this STP is completed & will be completed by December, 2022.
- 1 Mini STP with a capacity of 500 KLD at Bhavanipuram is under construction.
- 1 Mini STP with a capacity of 500 KLD at Governorpet is proposed.
- Taken up restoration of 'Payakapuram Cheruvu', with a cost of Rs.319.88 Lakhs with 14th Finance Commission funds to prevent mixing of untreated sewage into the surface/ground water.
80% work completed and work in progress.
- Inlet point causing pollution of Krishna River & its' Canals are identified and the flow is being diverted to the existing UGD system by laying RCC pipes. MS coarse screen are provided to open drains to remove solid waste before entering the canals.
- Greenery already developed along Bundar Canal bund.
- Greenery is being developed at a cost of Rs.300.00 Lakhs along Rvyes Canal bund.
- Removed Cattle huts/sheds on the River bund.
- People residing nearby canal bunds are provided with Individual Household Latrines under SBM & provided UGD connections to avoid river pollution.

- Demolished @ 950 unauthorized dwelling houses along the Krishna River banks @ Bhavani Ghat area & Punnami Ghat area to avoid river pollution and rehabilitated them under Housing Scheme at Jakkampudi.
- Got Administrative Sanction from Government to rejuvenate 20.00 MLD STP at Ramalingeswar Nagar to meeting effluent parameters & to take up repair to 4 Bio Gas Energy Plants with the assistance of UNIDO with a cost of Rs.14.93 Crores.

Solid Waste Management:

- 550 Tons per Day Solid waste is being generated.
- Solid waste is being collected from door to door.
 - 240 Tons of Wet waste is being processed as Compost & for Power generation.
 - 180 Ton of Dry waste is being sent to different processing plants through Kabadiwalas.
 - 81 Tons of waste going to Pathapadu for scientific landfill.
 - 15 Tons vegetable/slaughter waste being used for Power generation through Bio-methanation at Singh Nagar.
 - 22 Tons per day being used onsite compost/vermi compost at Singh Nagar.
 - About 1500 Households are practicing Home composting.
- Bio mining of Legacy waste of @ 3.00 Lakh Tons in 44 Acres is completed, cleared the site & is being utilized for development of Park, Material Recovery Facility etc.
- MRF with a capacity of 150 TPD with a cost of Rs.4.15 Crs under 14th Finance Commission funds is under progress.
- Established rivers vending machine at 7 places to encourage the public to dispose of plastic bottles (Recycling).
- Installed CCTV cameras in Dump sites.
- Taken up IEC activities/awareness campaigns in a big way on Solid Waste Management.

Mangalagiri Tadepalli Municipal Corporation:

Sewage Generation in MLD : 4.50 MLD
Capacity of Existing STPs : 0.40 MLD (2 Nos. of 0.20 MLD capacity)

Liquid Waste Management:

- There are 2 wards adjacent to Krishna River in Tadepalli.
- 1 STP at Mahanadu Road No.7 with a capacity of 0.20 MLD & 1 STP at Mahanadu Road No.13 with a capacity of 0.20 MLD constructed with Municipal funds to treat the sewage generated from these 2 wards and these STPs are functioning.
- Proposed to take up 3 STPs with a capacity of 3.20 MLD with a cost of Rs.6.50 Crs with 15th Finance Commission & Municipal General Funds.

Solid Waste Management:

- 66 Tons of Solid waste is being generated per day.
- Solid waste is being collected from door to door.
- 40 Tons of waste is being sent to M/s.Jindal Waste to Energy Plant located in Naidupet, Guntur.
- Established 2 Material Recovery Facilities to manage the Dry waste collected.
- About 1500 Households are practicing Home composting
- Taken up IEC activities/awareness campaigns in a big way on Solid Waste Management.

Macherla Municipality:

Sewage Generation in MLD : 5.00 MLD
Capacity of Existing STPs : ---

Liquid Waste Management:

- 3 STPs are proposed with a capacity of 2 MLD each with a cost of Rs.15.70 Crores and Project Report submitted to Government for financial assistance. It is also proposed to take up construction of STPs under Swachh Bharath Mission 2.0.

Solid Waste Management:

- 25 Tons of Solid waste is being generated per day.
- Solid waste is being collected from door to door.
- Established Waste to Compost Plant with a capacity of 10 TPD at Dump yard.
- Established 2 Material Recovery Facilities to manage Dry waste.
- 300 Households are practicing Home composting.

Kondapalli Municipality:

- Sewage Generation in MLD : 5.00 MLD
- Capacity of Existing STPs : 0.80 MLD

Liquid Waste Management:

- 1 STP with 0.80 MLD capacity at Security Colony is existing.
- 1 STP with a capacity of 2.00 MLD at B Colony is under construction under CSR and 90% of work completed.
- Proposed 1 STP with a capacity of 2.00 MLD to take up under 2nd instalment of 15 Finance Commission funds.

Solid Waste Management:

- 50 Tons Solid waste is being generated per day.
- Solid waste is being collected from door to door.
- 345 Households are practicing Home composting

Kurnool Municipal Corporation:

Sewage Generation in MLD : 60.00 MLD
Capacity of Existing STPs : 2.40 MLD

Liquid Waste Management:

- 3 STPs with a capacity of 0.80 MLD each are existing.
- 2 STPs with a capacity of 10 MLD (14% work completed & 2 MLD (80% work completed) taken up under AMRUT scheme are under progress. Expected to complete by December, 2022.

- Tenders under finalization to construct One STP with a capacity of 35.60 MLD to prevent the river Thungabhadra from pollution, with an estimated cost of Rs.79.78 Crores.

Solid Waste Management:

- 180 Tons of Solid waste is being generated per day.
- Solid waste is being collected from door to door.
- Entered MoU with M/s.Shrivi Green Energy for production of Fuel from plastic waste.
- Established Material Recovery Facility to manage dry waste by using mechanical segregator.
- Tender finalized for establishment of Integrated Solid Waste Management Project to manage Wet & Dry Wastes & LoA will be issued shortly.
- About 3000 Households are practicing Home composting
- Tenders invited for treatment of Legacy waste of about 1.50 MTs (Bio-mining).
- Taken up IEC activities/awareness campaigns in a big way on Solid Waste Management.

In view of the above, I request you to take further necessary action in the matter.

Encl: As above.

Yours faithfully,
Sd/- M.Mallikarjuna Nayak,
Commissioner & Director

Copy submitted to the Special Chief Secretary to Govt., MA & UD Department, A.P.Secretariat, Velagapudi for favour of information.


for Commissioner & Director
12/2/2022

12-02-2022

GOVERNMENT OF ANDHRA PRADESH
MUNICIPAL ADMINISTRATION & URBAN DEVELOPMENT (UBS) DEPARTMENT

Letter No.1282446/UBS/2020

Dated: 31-01-2022

From
The Special Chief Secretary to Government,
MA & UD Department,
A.P. Secretariat,
Velagapudi,
Guntur District

To
The Secretary,
Ministry of Jal Sakti,
MoHUA.,
Government of India,
New Delhi.(w.e.)

Sir,

Sub:-MA & UD Department - National Green Tribunal – Orders of the
National Green Tribunal Principal Bench, New Delhi in OA
No.673/2018 - Monthly Progress Report for the month of
December, 2021 -Furnished – Regarding.

Ref:-Orders of the National Green Tribunal Principal Bench, New Delhi
in OA No.673/2018, dated. 24.09.2020.

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In compliance to the directions of the Hon'ble National Green Tribunal
Principal Bench, New Delhi in the reference cited, I am herewith enclose the Monthly
Progress Report in the prescribed format for the month of December, 2021 for taking
further necessary action.

Yours faithfully,


For SPECIAL CHIEF SECRETARY TO GOVERNMENT



National Mission for Clean Ganga
Format for submission of Monthly Progress Report for the
month of DECEMBER, 2021 in the NGT Matter OA No. 673 of
2018 (in compliance to NGT order dated 24.09.2020)

For the State of Andhra Pradesh

Overall status of the State:

I. Total Urban Population :@1.5 Crore

II. Estimated Sewage Generation (MLD) : 1503.20 MLD (120 ULBs)

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD) : 516.65 MLD (44Nos)
 - Present Gap in Treatment Capacity in MLD : 986.55 MLD
 - Capacity of under construction STP's : 533.47 MLD
 - STPs Under Tender : 35.60 MLD
- (Kurnool Municipal Corporation 3 STP's [35.0+0.4+0.2] MLD)
- No. of Operational STPs : 44 Nos
 - No. of Non-complying STPs : Nil

III (A) Details of each existing STP in the State:

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Utilization capacity in MLD	Operational Status of STP	Compliance Status of STP
1	GVMC	Old town	May'2019	38.00	34.61	Operational	Complied
2		Appughar	26.09.2010	25.00	21.43	Operational	Complied
3		Mudasarlova	April'2008	13.00	8.50	Operational	Complied
4		Narava	Aug-01	54.00	20.11	Operational	Complied
5		Anakapalle	April'2018	15.00	6.87	Operational	Complied
6		Madinabagh		2.00	0.97	Operational	Complied
7		Yathapalem Colonies	April'2008	2.50	0.96	Operational	Complied
8		Gajuwaka	April'2008	0.50	0.22	Operational	Complied
9		Karnavani palem	Dec' 2019	5.00	0.0	Operational	Complied
10		Mantripalem	April' 2008	1.00	0.29	Operational	Complied
11		Aganampudi	Dec' 2015	6.00	0.00	Operational	Complied
12		Rathi Cheruvu	Sep' 2019	2.00	0.62	Operational	Complied
13		Kommadi / Madhurawada	Aug' 2018	4.00	2.02	Operational	Complied
14		Bakkannapalem	Aug' 2011	1.00	0.34	Operational	Complied
15		Marikavalasa	Dec' 2012	2.00	1.09	Operational	Complied
16		Vambay Colony	Aug' 2011	3.00	1.31	Operational	Complied
17		YSR Nagar	Aug' 2011	2.00	1.24	Operational	Complied
18		Boyapalem	Aug' 2011	1.00	0.37	Operational	Complied
			Sub Total	177.00	100.95		

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Utilization capacity in MLD	Operational Status of STP	Compliance Status of STP
19	Rajamahendravaram	Hukumpeta	03.01.2009	30.00	30.0	Operational	Complied
20	Vijayawada	Ajith Singh Nagar-1	31.05.2011	40.00	39.52	Operational	Complied
21		Ajith Singh Nagar-2	31.05.2012	20.00	20.00	Operational	Complied
22		Ramalingeswar Nagar-1	30.06.2012	20.00	19.74	Operational	Complied
23		Ramalingeswar Nagar-2	20.10.2006	10.00	9.80	Operational	Complied
24		Autonagar -1	31.03.2005	10.00	9.70	Operational	Complied
25		Autonagar -2	31.12.2018	10.00	9.80	Operational	Complied
26		Jakkampudi	31.07.2017	20.00	13.50	Operational	Complied
		Sub Total		130.00	122.06		Complied
27	Tirupathi	Thukivakam	30.09.2018	50.00	33.00	Operational	Complied
28	Kadapa	Nanapally	02.08.2012	20.00	10.00	Partly Operational	Complied
29	Pulivendula	Rotarypuram	25.01.2009	6.50	2.50	Partly Operational	Complied
30	Tadipatri	Gannevaripalle	10.10.2010	3.50	2.50	Operational	Complied
31		Gannevaripalle	10.10.2010	8.00	4.0	Operational	Complied
		Sub Total		11.50	6.50		Complied
32	Puttaparthi	1.Sai Nagar	20.7.2001	0.50	0.50	Operational	Complied
33		2. Gokulam	20.7.2001	0.50	0.0	Under Rehabilitation	Complied
34		3. Prasanthi Gram	20.7.2001	0.50	0.0	Under Rehabilitation	Complied
		Sub Total		1.50	0.50		Complied
35	Narsaraopeta	CPT Road	02.02.2018	15.55	8.50	Operational	Complied
36	Nellore	Janardhan Reddy Colony		5.00	5.0	Operational	Complied
37		Allepuram		55.00	55.0		
38		Drivers Colony		11.00	0.00		
		Sub Total		71.00	60.00		Complied
39	Kurnool	Jammichettu	12.03.2019	0.80	0.80	Operational	Complied
40		Sankal Bagh	12.03.2019	0.80	0.80	Operational	Complied
41		Tungabhadra PumpHouse	10.03.2018	0.80	0.80	Operational	Complied
		Sub Total		2.40	2.40		Complied
42	Tadepalli	Mahanadu-1	10.12.2018	0.20	0.20	Operational	Complied
43		Mahanadu-2	15.12.2018	0.20	0.20	Operational	Complied
44	Kondapalli	Security Colony		0.80	0.40	Operational	Complied
		Grand Total		516.65	377.21		

III (B) Details of Under Construction STPs in the State

S.No.	Location	Scheme Name	No. of STP	Capacity of the plant in MLD	Physical Progress in %	Completion Timeline
1	Yemmiganur	UIDSSMT	1	19.80	96%	June 2022
2	Srikakulam	AMRUT	1	10.00	45%	December 2022
3	Vizianagaram	AMRUT	1	5.00	55%	December 2022
4	GVMC	Smart City (Package-I)	1	54.00	90%	December 2022
5	Kakinada	AMRUT	1	5.00	39%	March 2023
6	Rajamahendravaram	AMRUT	1	5.00	16%	March 2023
7	Bhimavaram	AMRUT	1	5.00	42%	December 2022
8	Tadepalli gudem	AMRUT	1	5.00	0%	March 2023
9	Eluru	AMRUT	1	5.00	49%	December 2022
10	Machilipatnam	AMRUT	1	5.00	48%	December 2022
11	Gudivada	AMRUT	1	5.00	42%	December 2022
12	Vijayawada	JNNURM	1	20.00	83%	December 2022
13	Tenali	AMRUT	1	10.00	35%	December 2022
		14 FC	1	2.00	30%	August 2022
14	Ongole	AMRUT	1	15.00	72%	March 2022
15	Chilakaluripeta	AMRUT	1	5.00	21%	March 2022
16	Kavali	AMRUT	1	15.00	77%	December 2022
17	Nellore	HUDCO	1	20.00	85%	March 2022
			1	14.00	0%	Existing site dispute. New site to be identified. work will be completed in a one year time.
18	Tirupati	Smart City	1	25.00	25%	December 2022
19	Srikalahasti	AMRUT	1	7.00	40%	December 2022
20	Madanapalle	AMRUT	1	5.00	20%	December 2022
21	Kadapa	AMRUT	1	20.00	0%	March 2023
22	Anantapuramu	AMRUT	1	10.00	0%	Re Tenders are in finalization
23	Dharmavaram	AMRUT	1	15.00	0%	Re Tenders are in finalization
24	Guntakal	AMRUT	1	8.00	0%	March 2023
25	Kurnool	AMRUT	1	2.00	80%	March 2023
		AMRUT	1	10.00	14%	December 2022
26	Nandyal	AMRUT	1	10.00	20%	December 2022
27	Adoni	AMRUT	1	5.00	24%	December 2022
28	Guntur	OTSFA	1	10.00	52%	December 2022
			1	20.00	52%	December 2022
			1	42.00	51%	December 2022
			1	28.00	51%	December 2022
1			1	23.00	0%	Due to existing

						site dispute new site to be identified. Upon finalization of the new site work will be completed in one year time.
29	Pulivendula	PLAN	1	10.00	37%	December 2022
			1	1.50	32%	December 2022
			7 (0.5MLD x 7nos)	3.50	0%	March 2023
			1	0.02	0%	December 2022
			1	0.07	0%	December 2022
			1	0.08	0%	December 2022
			1	0.10	0%	December 2022
30	Rayachoti	PLAN	6	22.40	2 %	December 2022
31	Kondapalli	CSR Funds	1	2.00	12 %	July 2023
32	Kanigiri	AIIB	1	6.00	0 %	August 2023
33	Sullurpet	AIIB	3	8.00	0 %	August 2023
34	Allagadda	AIIB	1	5.00	0 %	August 2023
35	Nandikotkur	AIIB	1	5.00	0 %	August 2023
36	Madakasira	AIIB	1	5.00	0 %	August 2023
Grand Total			62	533.47		

III (C) Details of Proposed STPs in the State:

Phase	Description	No. of ULBs	Proposed STP capacities (MLD)	Cost of Total STPs (crores)
I	Municipal Corporations	16	539.00	1617.00
II	ULBs having population above 1,00,000 Lakh	18	221.00	663.00
III	ULBs having Population ranging between 75,000 to 1.00 Lakh	8	43.00	129.00
IV	ULBs having Population less than 75,000	78	499.00	1497.00
V	Taxes and others etc @20%			781.20
Total			1302.00	4687.20

III D) STATUS OF STPs UNDER RIVER STRETCHES:

- Total Estimated Sewage Generation (in MLD) 2020 :302.00 MLD
- Existing no. of STP with Treatment Capacity (in MLD) :162.40 MLD
- Present Gap in Treatment Capacity (in MLD) : 139.60 MLD
- Capacity of under Construction STPs (in MLD) : 57.00 MLD
- Gap after completion of ongoing Projects : 82.60 MLD

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-IV RIVERS						
1.	Tungabhadra	Kurnool	2.40 MLD	10 MLD	14 %	Rs.79.78 crs accorded administrative sanction for construction of STPs with capacity of 35.60MLD which is in tender process.
				2 MLD	80 %	
2	Kundu	Nandyal	0.00	10 MLD	20%	Comprehensive DPR on UGD scheme is prepared for Rs.85.00 Cr with STPs capacity of 26 (21 + 5) MLD to cater the needs of 2035 year. DPR submitted to the Govt. for according Administrative Sanction.

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-V RIVERS						
1.	Nagavali	Srikakulam	0.00	10 MLD	45%	Comprehensive proposal for providing UGD scheme for 2035 is prepared for an amount of Rs.190.36 Cr with an additional STP capacity of 12 MLD.
2.	Godavari	Rajamahendravaram	30.00	5 MLD	16%	DPR on Comprehensive UGD scheme prepared with additional STP's of capacity 72.37 MLD for an amount of Rs.404.00 Cr. RMC has attended the remarks and resubmitted the proposals. Now it is proposed to take up the works with an estimated cost of Rs.107.00 crores in the first year.
3.	Krishna	Vijayawada	130.00	20 MLD	83%	DPR is prepared for Rs.246.38 Cr for providing Comprehensive UGD scheme to meet the 2035 demand including up-gradation of 2 STPs of 30.00 MLD capacity.

IV. Details of Industrial Pollution:

- No. of industries in the State: 9947No's
- No. of water polluting industries in the State: 1438 No's
- Quantity of effluent generated from the industries in MLD: 4541.90 MLD

Effluent Break-Up Details:

- Once through Cooling water: 3826.13 MLD
- Trade effluents:412.09 MLD
- cooling tower/Boiler blow down: 254.12 MLD
- Domestic waste water: 49.563 MLD

From the total waste water generation from the industries, major portion is once through cooling water (about 85%) and temperature to be maintained for

discharge of once through cooling system is not more than 5⁰C temperature of intake water.

- ✓ From the Cooling tower/Boiler blow down (about 5.6%).
 - ✓ The remaining about 9.4% is generated from Trade effluent & Domestic Discharges.
 - ✓ APPCB is not permitting any industry to discharge industrial / trade effluents into the rivers.
- Number of industrial units having ETPs: 1093 No's
 - Number of industrial units connected to CETP: 345 No's
 - i. Existing: 1093 no's ETPs
 - ii. Under construction: Nil
 - iii. Proposed: Nil
 - **Compliance status of the ETPs:**
 - ✓ APPCB is regularly monitoring the compliance status of ETPs and action is being initiated for non-compliance industries.
 - Number and total capacity of CETPs (details of existing/ under construction / proposed)
 - i. Existing: 8 No's with total capacity of 21.5 MLD
 - ii. Proposed: 3 no's
 - 1.5 MLD at Atchuthapuram SEZ, Visakhapatnam
 - 1.5 MLD at Nakkapalli, Visakhapatnam.
 - 1.2 MLD at Chittoor District

• Status of compliance and operation of the CETPs

S.No	Name and Address of the CETP & contact person	Design capacity (in MLD)	Current Operating capacity (in MLD)	Type and No. of member units	Compliance status
1.	Brandix India Apparel City Private Limited, APSEZ, Atchutapuram Pudimadaka Road, Visakhapatnam.	5	*4	Textile park-14 units	Complied * APPCB permitted to establish 20 MLD capacity of CETP for operation full capacity industrial park. At present 5 MLD CETP was constructed as the effluent generation is 4 MLD.
2.	Ramky Pharma City (India) Ltd, JN Pharma City, Parawada Mandal, Visakhapatnam.	9.53	5.5	Pharmaceutical & Bulk drugs-92 units	Complied
3.	Kondapally Envirotech Pvt. Ltd., (KEPL), IDA, Kondapalli (V), Ibrahimpatnam (M), Krishna District.	0.2	0.0	Pharmaceutical & Bulk drugs-14 units	*Under up-gradation. Works will be completed by end of April 2022 and effluent sent to CETP, JNPC for further treatment until June 2022
4.	Vijayawada Auto Cluster Development Company, Industrial Estate, Auto Nagar, Vijayawada.	0.2	0.04	Food beverages, Herbal pharma, Oil solvents & lubricants - 35 units.	Complied
5.	Machilipatnam Imitation Jewellery Park Pvt. Ltd., Jewellery Park, Potheipalli, Machilipatnam.	0.07	0.002	Electro Plating - 48 Units	Complied
6.	Nagari Dyeing Owners Association, Chinthalapatteda (V), Nagari (M), Chittoor District.	4	1.0	Manual Dyeing units - 105 units	Complied
7.	Atchuthapuram Effluent Treatment Plant, Atchutapuram Visakhapatnam.	1.5	0.5	Pharmaceutical & Bulk drugs-36 units	Complied
8.	M/s Andhra Pradesh Industrial Infrastructure Corporation Limited (APIIC), 1.0 MLD CEPT, MPSEZ, Menakur (V), Naidu pet (M), SPSR Nellore District.	1.0	0.2	Pharmaceutical - 8 Units	Complied Started operations in the month November 2021. And receiving effluents from 3 Industries.

	Total	21.5	11.44		
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V. Solid Waste Management:

- Total number of Urban Local Bodies: **123** and their Population: **1.5** Crore
- Current Municipal Solid Waste Generation: **6898** TPD. for 123 ULBs (13 Newly Constituted ULBs – These ULBs have not yet developed urban Dynamics).
- Power generation from 15MW Waste to Energy project at Guntur has started and the plant is synchronized with the grid. Another 15MW Waste to Energy project at Visakhapatnam is under progress and expected to commission by February 2022.
- 32 Wet Waste Projects covering 35 ULBs treating 1435 TPD with an installed capacity of 1625 TPD are existing.
- 17 Wet Waste Projects covering 17 ULBs are in progress with an installed capacity of 397 TPD.
- Tenders were called for selection of agencies to establish ISWM projects in 72 ULBs under PPP mode. Evaluation completed and file circulated to Government of Andhra Pradesh for approval.
- 3 Construction and Demolition waste processing plants in Greater Visakhapatnam Municipal Corporation, Vijayawada Municipal Corporation and Tirupati Municipal Corporation treating 100 TPD with an installed capacity of 200 TPD are existing.
- 114 Dumpsites with an area of 1000 acres are existing in the state. Out of which remediation of dumpsites in 2ULBs (Vijayawada & Tirupati) was completed. and in one ULB Vishakhapatnam work is under progress.
- Quantification of Dumpsites in ULBs with 1 Lakh above Population is completed a modal RFP along with guidelines for dumpsite remediation was communicated to all the ULBs. and they were Instructed to take up the tender process for remediation of dumpsites. 8ULBs have invited tenders for dumpsite remediation. Out of them 2 ULBs finalized tenders and issued work orders and tenders in 6 ULBs is under progress.
- No Dump sites of legacy waste are within 1km buffer of both sides of the rivers in the state.
- 79 Material Recovery facilities covering 79 ULBs treating 810 TPD with an installed capacity of 1000 TPD Existing.

- 45 Material Recovery facilities covering 45 ULBs are in progress with an installed capacity of 500 TPD.
- The Source Segregation in the State is 83.00% and capacity utilization of the treatment units is the same percentage, Ward Secretariats and volunteer system established and unique in the State are ensuring 99 % door to door collection.
- Total no. of wards: 3926 No. of wards having door to door collection service: 3906. No. of wards practicing segregation at source: 3246.

Status of ULB wise Management of Solid Waste:

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
1	Amudalavalasa	19	Existing WtC	10	85%	Vizag WtE		Established	4	85%
2	Ichchapuram	18	Existing WtC	10	85%	Feasibility Study under progress		Established	2	85%
3	Palasa-kasibugga	28	Existing WtC	15	80%	Feasibility Study under progress		In Progress		
4	Rajam	21	Existing WtC	12	80%	Vizag WtE		Established	4	85%
5	Bobbili	29	Existing WtC	16	90%	Vizag WtE		Established	8	85%
6	Salur	24	Existing WtC	13	90%	Vizag WtE		Established	6	90%
7	GVMC	918	Existing WtC	505	85%	Vizag WtE		Established	300	85%
8	Narsipatnam	30	Existing WtC	17	80%	Vizag WtE		Established	8	85%
9	Yellamanchali	23	Existing WtC	13	80%	Vizag WtE		Established	4	85%
10	Adoni	81	Existing WtCNG	45	80%	Connected to Cement Factories	3	Established	20	85%
11	Nuzivid	29	Existing WtC	16	80%	Guntur WtE		In Progress		
12	Thiruvuru	17	Existing WtCNG	9	80%	Guntur WtE		Established	2	85%
13	Tenali	80	Existing WtC	44	90%	Guntur WtE		Established	20	90%
14	Sattenpalle	28	WtCNG - Piduguralla	15	85%	Guntur WtE		Established	6	85%
15	Narsaraopet	57	WtCNG - Piduguralla	31	85%	Guntur WtE		Established	16	85%
16	Piduguralla	31	Existing WtCNG	17	85%	Guntur WtE		In Progress		
17	Allagadda	20	Existing WtC	11	85%	Connected to Cement Factories	1	Established	4	85%
18	Rayadurgam	30	Existing WtC	17	85%	RDF inprogress		Established	6	85%
19	Puttaparty	15	Existing WtC	8	85%	RDF inprogress		Established	2	85%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
20	Yemmiganur	46	WtCNG - Adoni	25	85%	RDF inprogress		Established	10	85%
21	Anantapur	131	WtCNG Planned	0		Connected to Cement Factories	8	Established	35	90%
22	Atmakur K	22	WtC Awarded	0		Connected to Cement Factories	1	Established	4	90%
23	Badvel	35	WtC Planned	0		Connected to Cement Factories	2	In Progress		
24	Dhone	29	WtC Planned	0		Connected to Cement Factories	2	Established	6	90%
25	Markapur	35	Existing WtC	19	80%	Feasibility Study under progress		Established	8	85%
26	Giddalur	19	Existing WtC	10	85%	RDF inprogress		Established	4	85%
27	Kanigiri	22	Existing WtC	12	85%	Feasibility Study under progress		Established	4	85%
28	Chirala	42	Existing WtC	23	90%	Guntur WtE		Established	9	90%
29	Gudivada	58	WtCNG awarded	0		RDF Connected / Guntur WtE	3	Established	14	90%
30	Palamaneru	25	Existing WtC	14	85%	Feasibility Study under progress		In Progress		
31	Punganur	27	Existing WtC	15	80%	Feasibility Study under progress		Established	6	85%
32	Madanpalle	67	Existing WtCNG	37	85%	RDF inprogress		In Progress		
33	Sullurpet	22	Existing WtC	12	80%	Feasibility Study under progress		Established	4	85%
34	Srikakulam	65	WtCNG Planned	0		Vizag WtE		Established	16	90%
35	Palakonda	16	WtC Awarded	0		Vizag WtE		In Progress		
36	Vizianagaram	119	WtCNG Planned	0		Vizag WtE		Established	30	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
37	Parvathipuram	26	WtC Awarded	0		Vizag WtE		In Progress		
38	Nellimarla	14	WtC Planned	0		Vizag WtE		Established	2	90%
39	Gudur N	36	WtC Planned	0		Connected to Cement Factories	2	In Progress		
40	Guntakal	62	WtC Planned	0		Connected to Cement Factories	2	Established	14	90%
41	Jaggaiahpet	26	WtCNG awarded	0		RDF Connected / Guntur WtE	1	In Progress		
42	Jammalamadugu	22	Existing WtC	12	80%	Connected to Cement Factories	1	In Progress		
43	Pedana	16	WtC Awarded	0		Guntur WtE		In Progress		
44	Vuyyuru	20	WtC Awarded	0		Guntur WtE		In Progress		
45	Guntur	363	WtCNG Planned	0		Guntur WtE		Established	80	90%
46	Mangalagiri - Tadepalle	70	WtC Planned	0		Guntur WtE		Established	16	90%
47	Ponnur	29	WtC Planned	0		Guntur WtE		Established	6	90%
48	Chilakaluripet	49	WtC Planned	0		Guntur WtE		Established	12	90%
49	Bapatla	34	WtCNG awarded	0		Guntur WtE		Established	8	90%
50	Repalle	25	WtC Awarded	0		Guntur WtE		Established	4	90%
51	Vinukonda	30	WtCNG awarded	0		Guntur WtE		InProgress		
52	Macherla	28	Existing WtC	0		Feasibility Study under progress		Established	6	90%
53	Kadapa	167	WtCNG Planned	0		Connected to Cement Factories	6	Established	40	90%
54	Dharmavaram	62	WtC Planned	0		RDF in progress		In Progress		
55	Kadiri	43	WtC Awarded	0		Connected to Cement Factories	1	Established	8	90%
56	Gooty	24	WtC Planned	0		RDF in progress		Established	4	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
57	Pamidi	14	WtC Planned	0		RDF inprogress		In Progress		
58	Hindupur	74	WtC Awarded	0		RDF inprogress		In Progress		
59	Kurnool	224	WtCNG Planned	0		Connected to Cement Factories	2	In Progress		
60	Kalyandurgam	21	WtC Awarded	0		RDF inprogress		Established	2	90%
61	Madakasira	12	WtC Awarded	0		RDF inprogress		Established	2	90%
62	Machilipatnam	89	WtC Awarded	0		RDF Connected / Guntur WtE	3	Established	20	90%
63	Mydukur	22	WtC Planned	0		Connected to Cement Factories	1	In Progress		
64	Nandigama	22	WtCNG awarded	0		RDF Connected / Guntur WtE	1	In Progress		
65	Nandikotkur	23	WtC Planned	0		Connected to Cement Factories	1	Established	4	90%
66	Gudur K	14	WtC Planned	0		RDF in progress		In Progress		
67	Nandyal	98	WtCNG Planned	0		Connected to Cement Factories	3	In Progress		
68	Proddutur	79	WtCNG Planned	0		Connected to Cement Factories	2	In Progress		
69	Pulivendula	32	Existing WtC	18	85%	Connected to Cement Factories	2	Established	6	85%
70	Rajahmundry	168	WtCNG Planned	0		Connected to Cement Factories	3	Established	40	90%
71	Rajampeta	23	WtC Planned	0		Connected to Cement Factories	1	In Progress		
72	Rayachoti	44	WtC Planned	0		Connected to Cement Factories	2	Established	8	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
73	Tadipatri	53	Existing WtC	29	90%	Connected to Cement Factories	2	Established	10	90%
74	Tirupati	208	Existing WtCNG	114	85%	Connected to Cement Factories	4	Established	45	85%
75	Ongole	123	WtCNG awarded	0		Guntur WtE		Established	30	90%
76	Chimakurthy	17	WtC Awarded	0		Guntur WtE		In Progress		
77	Addanki	20	WtC Awarded	0		Guntur WtE		Established	4	90%
78	Kandukur	28	WtC Awarded	0		Feasibility Study under progress		Established	6	90%
79	Kakinada	159	WtCNG Planned	0		Feasibility Study under progress		Established	35	90%
80	Vijayawada	507	Existing WtC	279	85%	RDF Connected / Guntur WtE	6	Established	150	85%
81	Gollaprolu	11	WtC Planned	0		Feasibility Study under progress		In Progress		
82	Pithapuram	25	WtC Planned	0		Feasibility Study under progress		Established	3	90%
83	Peddapuram	24	WtC Planned	0		Feasibility Study under progress		Established	3	90%
84	Samalkota	28	WtC Planned	0		Feasibility Study under progress		Established	4	90%
85	Yeleswaram	16	WtC Planned	0		Feasibility Study under progress		Established	2	90%
86	Ramachandrapuram	21	WtC Planned	0		Feasibility Study under progress		Established	2	90%
88	Mandapeta	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
88	Tuni	26	WtC Awarded	0		Feasibility Study		Established	3	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
						under progress				
89	Mummidivaram	12	WtC Awarded	0		Feasibility Study under progress		Established	2	90%
90	Amalapuram	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%
91	Eluru	106	WtCNG Planned	0		Feasibility Study under progress		Established	22	90%
92	Tadepalligudem	51	WtC Planned	0		Feasibility Study under progress		Established	8	90%
93	Tanuku	44	WtC Planned	0		Feasibility Study under progress		In Progress		
94	Palakollu	33	WtC Planned	0		Feasibility Study under progress		In Progress		
95	Narsapuram	29	WtC Planned	0		Feasibility Study under progress		Established	4	90%
96	Bhimavaram	69	WtC Planned	0		Feasibility Study under progress		Established	12	90%
97	Nidadavole	21	WtC Planned	0		Feasibility Study under progress		In Progress		
98	Kovvur	19	WtC Planned	0		Feasibility Study under progress		In Progress		
99	Jangareddy Gudem	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
100	Chittoor	92	WtCNG Planned	0		Feasibility Study under progress		Established	18	90%
101	SriKalahasti	39	WtC Planned	0		Feasibility Study under progress		Established	8	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
102	Nagari	30	WtC Planned	0		Feasibility Study under progress		In Progress		
103	Puttur	26	WtC Planned	0		Feasibility Study under progress		In Progress		
104	Nellore	300	WtCNG Planned	0		Feasibility Study under progress		In Progress		
105	Venkatagiri	25	WtC Planned	0		Feasibility Study under progress		In Progress		
106	Yerraguntla	17	WtC Planned	0		Connected to Cement Factories	1	In Progress		
107	Naidupet	22	Tenders Evaluation in Process	0		Feasibility Study under progress		Established	4	90%
108	Atmakur N	15	Tenders Evaluation in Process	0		Feasibility Study under progress		In Progress		
109	Kavali	51	Tenders Evaluation in Process	0		Feasibility Study under progress		Established	10	90%
110	Akiveedu	11	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
111	Kondapalli	21	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
112	Dachepali	11	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
113	Gurazala	9	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
114	Darsi	12	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
115	Buchireddy Palem	12	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
116	Penukonda	10	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
117	Bethamcharla	14	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
118	Kamlapuram	7								
119	Kupam	15	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
120	Y.S.R. - Tadegadapa	23	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
121	Chuintalapudi	4	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
122	Podili	6	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
123	Alluru	9	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
124	B.KothaKota	6	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
Total		6898								

VI. Bio-medical Waste Management:

- Total Bio-medical generation: 17.200Tones/ day
- No. of Hospitals and Health Care Facilities: 11,851Nos.

Status of Treatment Facility/ CBMWTF	Presently, there are 12 Nos. of Common Bio-medical Waste Treatment Facilities (CBMWTFs) in covering total 13 Districts in Andhra Pradesh for treatment and disposal of bio-medical waste as per the BMW Management Rules 2016.
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VII. Hazardous Waste Management:

- Total Hazardous Waste generation about: 6,48,308.380TPAAs per hazardous waste inventory, 2020-21.
- No of industries generating Hazardous Waste:2708 Nos as per Hazardous Waste inventory, 2020 -21.
- **For the month of December, 2021, the Quantity of Hazardous Waste Treated & Disposed is as follows:**

- i) Utilizable waste is 16415.232TPM (suitable to use as raw material. or as alternative fuel viz. Co-processing in Cement Plants so as to conserve the resources),
- ii) Recyclable waste is 367.939 TPM (suitable for recycling /recovery of material viz. oil reclamation units, lead and zinc recovery units).
- iii) Incinerable waste is 492.48 TPM (not suitable for any recycling / reuse and having high calorific value i.e. > 2500 K cal/kg) and
- iv) Land fillable waste is 17699.962TPM (not suitable for any recycling / reuse and having low calorific value i.e. < 2500 K cal/kg) is reaching and treated at the TSDFs in Visakhapatnam and Nellore.

- **Details of on-going or proposed TSDF:**

Two TSDF are existing in the State of Andhra Pradesh

- ✓ M/s Coastal Waste Management Project Unit-1, Parwada, Visakhapatnam.
- ✓ M/s Coastal Waste Management Project Unit-2 a division of Mumbai Waste Management Limited, S.P.S.R. Nellore District.

VIII. Plastic Waste Management:

Total plastic waste generation	39,626 TPA (As per Annual Report for the F.Y. 2020-21).
Treatment / Measures adopted for reduction or management of plastic waste	<ul style="list-style-type: none"> • The recyclable plastic waste generated is being sent to recycling units and the non-recyclable plastic waste is being sent to cement plants and utilizing for road construction in some ULBs. 25 Nos of recyclers registered with APPCB. Total recycling capacity is 28070 TPA. • 29 ULBs tied up with nearby Cement Plants for co-incineration of non- recyclable plastic waste and 5123 MTs of Non-recyclable plastic waste was sent to cement plants for the F.Y 2020-21. • The MA&UD and PR&RD Dept., informed that they have been conducting strict vigilance and surprise visits on those who store or use or sell or dispose plastic with less than 50 microns' thickness, for which 721 Task force teams were constituted for inspections and raids to control plastic sale and usage of less than 50 microns' thickness carry bags / films in the ULBs of A.P. About 240 tons of plastic carry bags were seized and Rs. 169 lakhs towards fine was collected.

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

2 FSTPs are operational, 3 FSTPs are ready for inauguration, 5FSTPs are at various stage of construction. In balance ULBs, FSTPs works will be started immediately after release of funds from Government under Used Water Management component of SBM 2.0

Details of Faecal Sludge Treatment Plants:

No. of Completed FSTPs	:	2 (30 KLD)
No. of In-progress FSTPs	:	64 (950 KLD)
No. of FSTPs to be retendered	:	11 (175 KLD)
No. of FSTPs DPRs to be prepared :		10

IX(A): Details of Completed FSTPs:

S.No.	Name of ULB	Capacity(in KLD)	Operational Status of FSTP
1	Narsapur	15	Operational
2	Rajam	15	Operational

IX(B): Details of In-Progress FSTPs:

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
1	Dhone	20	85 % of Work Completed , Feb- 22
2	Gooty	15	June-22
3	Jammalamadugu	15	June-22
4	Kadiri	25	June-22
5	Kalyanadurgam	10	June-22
6	Madakasira	5	June-22
7	Paamidi	10	June-22
8	Pulivendula	20	June-22
9	Puttaparthi	10	June-22
10	Rayachoti	25	June-22
11	Rayadurg	20	June-22
12	Allagadda	10	June-22
13	Atmakur (K)	15	June-22
14	Badvel	25	June-22
15	Gudur (K)	5	June-22
16	Mydukuru	15	June-22
17	Nandikotkur	15	June-22
18	Palamaneru	15	Ready for inauguration
19	Punganur	15	June-22
20	Rajampeta	15	June-22
21	Yerraguntla	10	June-22
22	Atmakur (N)	10	June-22
23	Giddalur	10	June-22
24	Gudur (N)	20	June-22
25	Kandukur	20	June-22
26	Kanigiri	15	June-22
27	Markapur	20	85 % Work Completed , Feb-22
28	Nagari	20	June-22
29	Naidupet	15	June-22
30	Puttur	15	June-22
31	Sullurpeta	15	June-22
32	Venkatagiri	15	June-22

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
33	Addanki	10	June-22
34	Bapatla	25	40 % Work Completed
35	Chimakurthy	10	June-22
36	Chirala	25	40 % Work Completed
37	Macherla	15	June-22
38	Mangalagiri	25	June-22
39	Piduguralla	15	June-22
40	Ponnur	15	40 % Work Completed
41	Repalle	15	June-22
42	Sattenapalli	15	June-22
43	Vinukonda	15	Ready for inauguration
44	Amalapuram	15	June-22
45	Gollaprolu	5	June-22
46	Kovvur	10	June-22
47	Mandapeta	15	June-22
48	Mummidivaram	10	June-22
49	Peddapuram	15	June-22
50	Pithapuram	15	June-22
51	Ramachandrapuram	15	June-22
52	Samalkota	15	June-22
53	Tuni	15	June-22
54	Yeleshwaram	10	June-22
55	Amudalavalasa	10	June-22
56	Bobbili	15	Ready for inauguration
57	Ichapuram	10	June-22
58	Narsipatnam	20	June-22
59	Nellimarla	10	June-22
60	Palakonda	10	June-22
61	Palasa-Kasibugga	15	June-22
62	Parvathipuram	15	June-22
63	Salur	15	June-22
64	Yelamanchili	15	June-22
Total		950	

IX (C) Details of FSTPs under tenderStage:

S.No	Name of the ULB	Capacity of Plant (KLD)
1	Jangareddigudem	15
2	Nidadavolu	15
3	Palacole	20

4	Pedana	10
5	Tadepalli	20
6	Tanuku	25
7	Vuyyuru	15
8	Jaggiahpeta	15
9	Nandigama	15
10	Nuzividu	15
11	Tiruvuru	10

IX(D) Details of FSTPs for which DPRs Preparation in progress:

S.No	Name of ULB	Status of the project
1	Akiveedu	DPR to be prepared - Newly Constituted ULB
2	Kondapalli	DPR to be prepared - Newly Constituted ULB
3	Dachepali	DPR to be prepared - Newly Constituted ULB
4	Gurazala	DPR to be prepared - Newly Constituted ULB
5	Darsi	DPR to be prepared - Newly Constituted ULB
6	Buchireddy Palem	DPR to be prepared - Newly Constituted ULB
7	Penukonda	DPR to be prepared - Newly Constituted ULB
8	Bethamcharla	DPR to be prepared - Newly Constituted ULB
9	Kamlapuram	DPR to be prepared - Newly Constituted ULB
10	Kupam	DPR to be prepared - Newly Constituted ULB

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

- contributing to River Pollution. All the above 32 No's of outfall points are provided with Meshes/Screens to prevent solid waste from falling in to the Rivers.

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

Commissioner & Director of Municipal Administration Appointment as a Nodal Officer for Polluted River stretches as per G.O.RT. No: 103 EFS&T Department Dated: 25-11-2020.

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

XIII. Latest water quality of polluted river, its tributaries, drains with flow details:

- APPCB has been monitoring the 5 polluted river stretches at 27 locations on monthly basis and the data is being uploaded in RRC Website <https://rrc.ap.gov.in/Views/Monitoring.aspx> every month. **The monitoring of water quality data for the month of December, 2021 is enclosed.**
 - **As per the analysis of samples collected at 27 locations in the month of December, 2021 the B.O.D value is less than 3.0 mg/lit. (Details enclosed)**
- XIV. Ground water regulation:
 - XV. Good irrigation practices being adopted by the State:
 - XVI. Rain Water Harvesting:
 - XVII. Demarcation of Floodplain and removal of illegal encroachments:
 - XVIII. Maintaining minimum e-flow of river:
 - XIX. Plantation activities along the rivers:
 - XX. Development of biodiversity park:
 - XXI. Reuse of Treated Water:
 - XXII. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:
 - XXIII. Status of Preparation of Action Plan by the 13 Coastal States:
 - XXIV. Regulation of Mining Activities in the State/UT:
 - XXV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring.

Water quality status of polluted river stretches in Andhra Pradesh - 2021

I. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 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, 2021

Parameter	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Standard		
														Class A	Class B	Class C
pH	4367	7.44	7.61	7.84	8.23	---	----	7.48	7.59	7.68	7.56	8.33	8.58	6.0 - 8.5	6.0 - 9.0	
	4359	7.50	6.85	7.07	6.96	----	----	8.24	7.71	7.82	7.75	7.41	7.86			
	0014	7.52	7.52	7.53	7.22	7.76	7.61	7.40	7.72	7.62	7.55	7.52	7.93			
	1218	7.36	7.75	7.08	7.31	7.87	7.67	7.42	7.47	7.57	7.48	7.65	8.14			
	2370	7.69	7.30	6.84	7.92	7.02	7.44	6.60	7.81	7.80	7.39	8.07	7.76			
	2371	7.05	7.19	6.97	7.90	7.78	7.25	6.75	7.60	7.62	7.41	7.81	7.74			
	1219	7.25	7.21	6.83	7.59	7.02	7.34	6.51	7.53	7.66	6.82	7.54	8.10			
	4365	7.22	7.42	7.22	7.5	7.38	7.83	7.27	7.46	7.66	7.47	7.80	8.16			
	4366	7.33	7.71	7.30	7.73	7.62	7.69	7.30	7.41	7.79	7.37	7.78	7.83			
	4358	7.57	6.95	7.52	7.49	7.38	7.75	7.57	7.58	7.36	7.57	7.33	7.87			
DO	4367	5.6	5.4	6.2	6.9	---	----	6.3	6.2	6.5	7.0	7.0	8.8	6.0	5.0	4.0
	4359	8.5	8.5	8.2	8.0	---	----	7.5	8.8	7.5	6.9	8.0	7.0			
	0014	6.0	7.9	6.7	6.0	6.6	7.5	6.7	6.8	6.0	8.2	7.2	8.0			
	1218	7.0	6.2	6.4	6.3	6.5	8.0	6.5	7.5	6.6	6.5	7.1	8.7			
	2370	8.4	8.0	6.8	6.6	6.6	7.0	7.6	7.5	7.2	7.4	7.2	7.4			
	2371	7.5	6.5	6.6	6.4	6.1	6.6	7.5	7.0	7.0	6.8	6.4	7.1			
	1219	7.2	7.8	8.5	6.9	6.8	6.4	7.0	7.6	7.9	7.0	7.1	7.5			
	4365	5.8	7.2	8.0	8.5	6.6	8.5	6.5	7.0	6.5	7.2	6.8	6.3			
	4366	5.4	7.0	7.0	7.6	6.5	7.0	6.0	6.0	6.2	5.9	6.7	5.5			
	4358	5.4	6.5	5.6	5.0	6.6	6.8	6.1	7.0	7.2	6.8	5.8	6.0			
BOD	4367	1.8	2.2	2.0	1.8	----	----	2.1	2.4	2.2	2.0	1.1	1.8	2.0	3.0	3.0
	4359	1.5	1.5	2.2	1.8	---	----	1.0	1.2	1.2	1.0	2.0	2.0			
	0014	1.8	2.2	1.9	1.8	1.7	2.2	1.5	1.5	1.8	1.2	1.4	1.8			
	1218	2.0	1.0	2.0	1.5	1.7	1.8	1.7	1.6	1.6	1.6	1.8	1.5			
	2370	1.4	1.4	2.6	2.2	2.0	1.8	2.0	2.0	2.0	2.2	2.2	2.2			
	2371	1.8	2.2	2.8	2.6	2.2	2.0	2.2	2.2	2.2	2.4	2.6	2.4			
	1219	2.0	1.6	1.4	1.8	1.6	1.8	1.6	2.2	2.0	2.0	1.8	2.0			
	4365	2.0	2.0	1.5	1.5	1.8	1.5	2.0	1.8	2.0	1.4	2.1	2.0			
	4366	2.6	2.3	2.0	2.0	2.4	2.2	2.4	2.2	2.5	2.0	2.4	2.5			
	4358	2.4	1.6	1.5	2.2	1.4	1.2	1.4	1.2	1.4	1.2	1.6	2.0			

Month-wise data of water quality of river Godavari, 2021

Parameter	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Standard		
														Class A	Class B	Class C
Total Coliform	4367	150	150	120	120	---	----	150	150	120	120	210	150	50	500	5000
	4359	75	39	64	60	---	----	49	49	64	39	49	39			
	0014	120	120	120	120	120	93	120	93	120	75	120	93			
	1218	93	93	93	93	93	120	93	120	120	120	93	75			
	2370	150	120	120	120	120	93	120	120	120	120	120	120			
	2371	210	210	150	150	150	120	150	150	150	150	150	150			
	1219	210	240	120	120	150	150	150	150	120	150	150	150			
	4365	150	150	120	150	120	120	120	120	120	150	120	120			
	4366	210	210	210	240	150	150	150	150	150	210	150	150			
	4358	93	120	73	120	120	93	93	93	120	120	120	93			
Fecal Coliform	4367	15	9	9	9	---	----	15	15	15	7	15	15	---	500	---
	4359	4	4	4	4	---	----	4	4	4	4	3	3			
	0014	9	9	9	15	9	7	9	9	9	7	9	4			
	1218	7	7	7	7	4	9	4	9	11	9	7	4			
	2370	9	9	9	9	9	9	9	9	9	9	9	9			
	2371	15	20	15	15	15	15	15	11	15	15	11	15			
	1219	23	23	7	9	21	21	15	15	9	15	15	11			
	4365	15	11	9	15	9	9	7	9	9	15	9	9			
	4366	23	15	11	23	15	15	15	15	15	21	15	15			
	4358	7	7	4	9	11	7	7	7	11	7	7	7			
TDS	4367	420	220	444	324	---	----	358	268	180	220	278	292	500 - 2000		
	4359	120	88	84	84	---	----	92	96	78	70	80	72			
	0014	160	156	108	106	140	124	192	160	152	196	168	170			
	1218	156	148	102	98	120	120	120	152	186	200	156	172			
	2370	220	168	172	168	128	180	172	146	152	166	196	176			
	2371	252	228	204	202	144	198	188	160	188	180	268	240			
	1219	208	166	124	98	140	140	164	172	176	240	198	164			
	4365	10560	18848	25064	21532	22820	31600	23072	398	340	236	8162	4642			
	4366	23256	23572	32208	34668	23580	31864	23620	5048	360	260	8428	13048			
	4358	17392	22032	34280	29360	16280	25728	21948	620	258	296	4760	1468			

Note: (1) All values are expressed in mg/L except pH & Total Coliform value. Total 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 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.

2. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 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, 2021:

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1175	7.8	7.9	7.3	7.7	7.4	7.2	7.4	7.4	7.4	7.5	7.7	7.9	6.0 - 8.5	6.0 - 9.0	
	3083	7.7	7.4	7.6	7.7	7.7	7.5	7.9	7.3	7.4	7.5	7.3	7.5			
	4381	7.88	7.94	8.19	8.02	7.82	7.76	7.68	7.84	7.19	7.24	7.38	7.33			
	1786	7.27	7.30	8.04	7.48	7.66	7.34	8.07	7.93	7.88	7.67	7.43	7.99			
	1787	7.22	7.68	7.99	7.38	7.42	7.54	7.91	8.09	7.36	7.42	7.88	7.42			
	0025	7.76	7.80	7.92	7.42	7.56	7.46	8.11	7.97	7.28	7.34	7.80	7.70			
	4375	7.79	7.80	7.70	7.58	7.46	7.58	8.45	8.01	7.79	8.13	7.83	7.69			
	1782	7.30	7.80	7.82	7.90	7.92	7.83	7.51	7.32	7.48	7.34	7.52	7.61			

DO	1175	5.7	5.9	5.6	5.6	5.2	5.5	5.5	6.4	6.2	5.5	6.4	6.4	6.0	5.0	4.0
	3083	7.7	5.6	5.3	5.3	5.9	5.9	5.9	6.3	6.2	6.1	5.9	6.2			
	4381	7.3	7.1	7.2	7.1	7.2	7.3	7.1	7.3	7.4	7.2	7.3	7.4			
	1786	7.3	7.2	7.3	7.2	7.1	7.1	7.4	7.5	7.1	7.4	7.4	7.3			
	1787	7.1	7.2	7.3	7.2	7.3	7.2	7.4	7.1	7.3	7.2	7.1	7.3			
	0025	7.0	7.2	7.1	7.0	7.2	7.1	7.3	7.1	7.2	7.1	7.0	7.1			
	4375	7.0	7.1	7.1	7.1	7.2	7.1	7.2	7.1	7.2	7.1	7.2	7.3			
	1782	4.4	4.6	4.3	4.2	4.3	4.6	5.2	6.2	6.4	6.8	6.7	6.8			
BOD	1175	1.5	1.7	2.5	2.8	2.5	1.2	1.8	1.3	1.2	1.7	2.0	2.5	2.0	3.0	3.0
	3083	1.5	1.3	2.7	2.2	1.2	<1	1.5	1.1	1.2	1.0	1.8	1.5			
	4381	2.8	2.8	2.8	2.4	2.6	2.6	2.4	2.6	2.4	2.6	2.6	2.8			
	1786	2.6	2.4	2.6	2.4	2.6	2.2	2.6	2.6	2.4	2.6	2.6	2.8			
	1787	2.4	2.2	2.4	2.6	2.4	2.2	2.2	2.0	1.8	2.0	2.2	2.6			
	0025	2.2	2.4	2.6	2.8	2.6	2.4	2.6	2.2	2.0	2.2	2.4	2.2			
	4375	2.0	2.2	2.4	2.6	2.6	2.4	2.6	1.8	1.8	2.2	2.2	2.4			
1782	2.6	2.8	2.6	2.8	2.8	2.4	2.8	2.8	2.6	2.4	2.6	2.6				
Total Coliform	1175	350	280	920	920	920	840	689	483	420	534	659	770	50	500	5000
	3083	250	220	1600	920	540	430	491	352	376	483	575	1046			
	4381	120	120	150	75	75	120	150	120	150	120	93	75			
	1786	150	120	150	120	150	120	120	150	120	150	150	120			
	1787	93	120	150	120	150	120	150	120	150	120	150	120			
	0025	120	120	120	75	75	75	93	120	150	120	93	93			
	4375	130	120	93	93	93	75	120	93	93	75	64	75			
1782	64	93	75	75	75	75	64	93	75	75	93	120				

Fecal Coliform	1175	76	81	350	240	430	350	235	145	229	272	137	194	---	500	---
	3083	81	76	920	350	280	280	154	193	193	207	78	354			
	4381	<3	3	3	3	3	3	3	3	3	3	3	3			
	1786	<3	3	3	3	3	3	3	3	3	3	3	3			
	1787	<3	3	3	3	3	3	3	3	3	3	3	3			
	0025	<3	3	3	3	3	3	3	3	3	3	3	3			
	4375	<3	3	3	3	3	3	3	3	3	3	3	3			
	1782	<3	3	3	3	3	3	3	3	3	3	2	3			
TDS	1175	372	428	445	764	623	648	658	186	240	330	402	362	500 - 2000		
	3083	386	418	389	419	432	376	442	192	196	305	337	362			
	4381	446	480	470	480	485	490	460	440	378	380	430	414			
	1786	416	450	540	528	540	526	516	413	396	418	518	456			
	1787	430	430	460	510	520	534	460	408	355	344	420	504			
	0025	374	380	418	498	510	442	516	390	386	410	406	420			
	4375	368	350	384	506	498	426	440	234	248	390	390	470			
	1782	25100	19000	23300	22400	22800	15380	11800	10400	9730	7320	7940	8384			
Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal Coliform. Total 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. High TDS values at Hamsaladevi could be attributed due to the intrusion of backwaters of Bay of Bengal.																

3. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 is as follows:

S. No.	Code	Location point
01	1785	Manthralayam, Kurnool Dist.
02	1174	Bhavapuram, Kurnool Dist.
03	4388	U/S of Kurnool town B/C with domestic sewage & A/c of Rayalaseema alkalies industries at Gondiparla, Kurnool.
04	4389	D/S of Kurnool town A/C with domestic sewage at Gondiparla, Kurnool.

Month-wise data of water quality of river Tungabhadra, 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1785	7.8	7.8	7.8	7.7	7.5	7.6	7.3	7.0	7.5	7.7	7.7	7.3	6.0 – 8.5	6.0 – 9.0	
	1174	7.6	7.3	7.7	7.9	7.8	7.9	7.3	7.6	7.7	7.5	7.3	7.7			
	4388	6.8	7.4	7.2	7.6	7.0	7.8	7.5	7.2	7.3	7.7	7.4	7.5			
	4389	7.1	7.1	6.9	7.6	7.1	7.6	7.6	6.8	7.5	7.7	6.9	7.4			
DO	1785	5.3	5.7	4.8	5.0	5.0	5.2	4.8	6.3	5.9	5.9	6.4	6.2	6.0	5.0	4.0
	1174	5.5	5.5	5.0	5.3	5.4	5.3	5.3	6.2	5.8	6.0	6.3	6.4			
	4388	5.3	4.5	4.3	5.5	4.1	4.3	4.6	6.2	5.9	5.7	6.1	6.0			
	4389	5.2	4.9	4.2	5.5	4.4	4.7	5.1	6.1	5.5	5.8	6.1	5.5			
BOD	1785	2.8	2.8	3.0	2.5	2.7	2.0	2.5	1.5	1.3	1.5	2.7	2.7	2.0	3.0	3.0
	1174	2.3	2.8	2.8	3	2.2	2.3	2.5	1.5	1.5	1.2	2.5	2.8			
	4388	2.3	2.7	3.0	1.8	3	2.5	2.8	1.3	1.5	2.5	2.5	1.5			
	4389	2.8	3.0	3.0	1.3	2.5	2.2	2.8	1.5	1.8	2.2	2.8	3.0			
Total Coliform	1785	540	430	430	350	540	920	866	408	491	549	1203	1414	50	500	5000
	1174	920	540	540	540	920	920	816	437	408	575	1046	1300			
	4388	430	540	920	920	1600	920	870	420	437	649	756	1046			

	4389	540	920	920	540	920	1600	921	491	516	629	921	1120			
Fecal Coliform	1785	210	130	170	130	240	350	454	110	289	368	212	452	---	500	---
	1174	170	180	220	210	280	430	368	124	145	281	161	122			
	4388	180	180	350	280	430	240	452	286	170	381	264	423			
	4389	140	210	430	220	250	350	510	229	272	309	189	112			
TDS	1785	636	812	724	454	508	714	712	152	296	350	627	408	500 - 2000		
	1174	738	898	1014	1185	946	1036	502	213	622	287	312	425			
	4388	1042	1120	1196	1325	1384	1120	523	228	224	630	670	616			
	4389	779	921	893	1095	1098	836	532	218	492	499	339	448			
Note: All values are expressed in mg/L except pH. Total Coliform value & Fecal coliform. Total 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.																

4. River Nagavali:

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, Total Coliform, Fecal Coliform and TDS for the year, 2021 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.

Month-wise data of water quality of river Nagavali, 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	4351	7.86	7.30	7.24	7.97	7.66	6.66	8.48	7.58	7.09	7.99	7.25	7.71	6.0 – 8.5	6.0 – 9.0	
	1448	7.52	7.45	6.98	8.01	7.27	7.35	8.24	7.56	7.14	7.02	7.26	7.80			
	4346	8.28	7.62	7.39	8.82	7.33	7.06	7.56	7.36	7.32	7.81	7.22	8.52			
	4347	8.10	7.69	7.32	8.37	7.24	7.08	7.49	7.27	7.20	7.75	7.45	7.87			
DO	4351	6.0	6.7	6.7	6.2	5.8	6.0	5.8	6.6	7.5	6.6	5.2	8.3	6.0	5.0	4.0
	1448	5.9	6.5	8.1	6.5	7.5	6.5	6.5	7.0	6.0	6.5	7.5	8.2			
	4346	8.4	7.5	7.5	7.4	8.0	6.0	7.1	6.5	7.0	6.8	6.4	7.4			
	4347	6.4	7.2	7.0	7.0	7.5	6.0	6.8	6.0	6.0	6.5	6.0	7.0			
BOD	4351	1.3	1.7	1.4	2.1	2.0	1.8	2.2	2.5	1.2	1.5	2.0	1.8	2.0	3.0	3.0
	1448	1.9	1.9	1.4	2.0	1.7	1.6	1.9	1.8	1.5	1.7	1.9	1.8			
	4346	1.4	2.0	1.6	1.2	1.5	1.7	2.0	1.5	1.7	1.8	1.8	1.9			
	4347	1.9	2.2	1.8	1.4	1.8	2.0	2.3	1.8	2.0	2.0	2.0	2.2			
Total Coliform	4351	210	150	150	150	150	210	210	210	210	150	210	150	50	500	5000
	1448	120	120	93	120	120	150	120	120	120	120	120	120			
	4346	120	120	120	120	120	120	120	120	120	120	120	120			
	4347	150	150	210	150	150	150	150	150	150	150	150	150			
Fecal Coliform	4351	21	15	11	15	15	15	15	15	15	15	15	11	----	500	----
	1448	9	11	9	9	9	15	9	9	9	15	7	9			
	4346	7	9	7	7	9	9	9	9	9	15	9	9			
	4347	11	11	15	11	15	15	15	15	15	15	15	11			
TDS	4351	236	240	224	260	268	262	408	192	192	158	198	220	500-2000		
	1448	192	240	192	280	256	268	220	196	160	208	188	178			
	4346	252	224	240	272	232	252	228	220	208	162	220	248			
	4347	280	260	264	292	276	296	256	256	224	220	234	415			

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

Remarks: BOD & Fecal coliform values found to within the standard limits stipulated for bathing at all the locations.

5. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 is as follows:

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

Month-wise data of water quality of river Kundu, 2021

Parameters	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
													Class A	Class B	Class C
pH	7.5	7.6	7.3	7.9	7.8	7.7	7.8	7.4	7.2	7.3	7.3	6.7	6.0 – 8.5		6.0 – 9.0
DO	5.1	4.8	5.1	5.0	5.6	5.2	5.2	5.9	5.6	5.8	6.2	6.4	6.0	5.0	4.0
BOD	2.5	2.5	2.8	1.8	3.0	2.5	2.8	1.8	1.5	2.0	2.2	1.5	2.0	3.0	3.0
Total Coliform	920	540	920	1600	1600	1600	1203	594	550	629	1553	914	50	500	5000
Fecal Coliform	350	280	240	920	350	430	483	376	245	324	324	279	---	500	---
TDS	446	486	512	706	746	862	648	294	322	410	419	416	500 - 2000		
Note: All values are expressed in mg/L except pH, Total Coliform & Fecal Coliform value. Total 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.															

CPCB Water Quality Criteria for Designated Best Use

Designated-best- use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection.	A	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 50 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 6 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 2mg/l or less.
Outdoor bathing (Organized)	B	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 500 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 5 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less.
Drinking Water Source after conventional treatment and disinfection.	C	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 5000 or less. • pH between 6 to 9 • Dissolved oxygen 4 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Propagation of Wild life and Fisheries.	D	<ul style="list-style-type: none"> • pH between 6.5 to 8.5 • Dissolved oxygen 4 mg/l or more. • Free Ammonia (as N) 1.2 mg/l or less • pH 9 between 6.0 to 8.5.
Irrigation, Industrial Cooling, Controlled Waste disposal.	E	<ul style="list-style-type: none"> • Electrical Conductivity at 25°C micro mhos/cm Max. 2250. • Sodium Absorption ratio Max. 26 • Boron Max.2 mg/l.
	Below -E	Not Meeting A, B, C, D & E Criteria.

GOVERNMENT OF ANDHRA PRADESH
MUNICIPAL ADMINISTRATION & URBAN DEVELOPMENT (UBS) DEPARTMENT

Letter No.1282446/UBS/2020

Dated: 29-12-2021

From
The Special Chief Secretary to Government,
MA & UD Department,
A.P. Secretariat,
Velagapudi,
Guntur District

To
The Secretary,
Ministry of Jal Sakti,
MoHUA.,
Government of India,
New Delhi.(w.e.)

Sir,

Sub:-MA & UD Department - National Green Tribunal – Orders of the
National Green Tribunal Principal Bench, New Delhi in OA
No.673/2018 - Monthly Progress Report for the month of
November, 2021 -Furnished – Regarding.

Ref:-Orders of the National Green Tribunal Principal Bench, New Delhi
in OA No.673/2018, dated. 24.09.2020.

*** **

In compliance to the directions of the Hon'ble National Green Tribunal
Principal Bench, New Delhi in the reference cited, I am herewith enclose the Monthly
Progress Report in the prescribed format for the month of November, 2021 for taking
further necessary action.

Yours faithfully,

G. Sudha Rani

For SPECIAL CHIEF SECRETARY TO GOVERNMENT

[Signature]

National Mission for Clean Ganga
Format for submission of Monthly Progress Report for the
month of NOVEMBER, 2021 in the NGT Matter OA No. 673 of
2018 (in compliance to NGT order dated 24.09.2020)

For the State of Andhra Pradesh

Overall status of the State:

I. Total Urban Population :@1.5 Crore

II. Estimated Sewage Generation (MLD) : 1503.20 MLD (120 ULBs)

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD) : 516.65 MLD (44Nos)
 - Present Gap in Treatment Capacity in MLD : 986.55 MLD
 - Capacity of under construction STP's : 533.47 MLD
 - STPs Under Tender :35.60 MLD
- (Kurnool Municipal Corporation 3 STP's [35.0+0.4+0.2] MLD)
- No. of Operational STPs : 44 Nos
 - No. of Non-complying STPs : Nil

III (A) Details of each existing STP in the State:

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Utilization capacity in MLD	Operational Status of STP	Compliance Status of STP
1	GVMC	Old town	May'2019	38.00	35.23	Operational	Complied
2		Appughar	26.09.2010	25.00	21.42	Operational	Complied
3		Mudasarlova	April'2008	13.00	9.65	Operational	Complied
4		Narava	Aug-01	54.00	22.36	Operational	Complied
5		Anakapalle	April'2018	15.00	7.55	Operational	Complied
6		Madinabagh		2.00	1.02	Operational	Complied
7		Yathapalem Colonies	April'2008	2.50	1.01	Operational	Complied
8		Gajuwaka	April'2008	0.50	0.23	Operational	Complied
9		Karnavanipalem	Dec' 2019	5.00	0.0	Operational	Complied
10		Mantripalem	April' 2008	1.00	0.31	Operational	Complied
11		Aganampudi	Dec' 2015	6.00	0.0	Operational	Complied
12		RathiCheruvu	Sep' 2019	2.00	0.65	Operational	Complied
13		Kommadi / Madhurawada	Aug' 2018	4.00	2.10	Operational	Complied
14		Bakkannapalem	Aug' 2011	1.00	0.36	Operational	Complied
15		Marikavalasa	Dec' 2012	2.00	1.15	Operational	Complied
16		Vambay Colony	Aug' 2011	3.00	1.38	Operational	Complied
17		YSR Nagar	Aug' 2011	2.00	1.30	Operational	Complied
18		Boyapalem	Aug' 2011	1.00	0.39	Operational	Complied

			Sub Total	177.00	106.12		
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Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Utilization capacity in MLD	Operational Status of STP	Compliance Status of STP
19	Rajamahendravaram	Hukumpeta	03.01.2009	30.00	30.0	Operational	Complied
20	Vijayawada	Ajith Singh Nagar-1	31.05.2011	40.00	39.52	Operational	Complied
21		Ajith Singh Nagar-2	31.05.2012	20.00	20.0	Operational	Complied
22		Ramalingeswar Nagar-1	30.06.2012	20.00	19.74	Operational	Complied
23		Ramalingeswar Nagar-2	20.10.2006	10.00	9.80	Operational	Complied
24		Autonagar -1	31.03.2005	10.00	9.70	Operational	Complied
25		Autonagar -2	31.12.2018	10.00	9.80	Operational	Complied
26		Jakkampudi	31.07.2017	20.00	13.50	Operational	Complied
		Sub Total		130.00	122.06		Complied
27	Tirupathi	Thukivakam	30.09.2018	50.00	33.0	Operational	Complied
28	Kadapa	Nanapally	02.08.2012	20.00	10.0	Partly Operational	Complied
29	Pulivendula	Rotarypuram	25.01.2009	6.50	2.50	Partly Operational	Complied
30	Tadipatri	Gannevaripalle	10.10.2010	3.50	2.50	Operational	Complied
31		Gannevaripalle	10.10.2010	8.00	4.0	Operational	Complied
		Sub Total		11.50	6.50		Complied
32	Puttaparthi	1.Sai Nagar	20.7.2001	0.50	0.50	Operational	Complied
33		2. Gokulam	20.7.2001	0.50	0.0	Under Rehabilitation	
34		3. Prasanthi Gram	20.7.2001	0.50	0.0	Under Rehabilitation	Complied
		Sub Total		1.50	0.50		Complied
35	Narsaraopeta	CPT Road	02.02.2018	15.55	8.50	Operational	Complied
36	Nellore	Janardhan Reddy Colony		5.00	5.0	Operational	Complied
37		Allepuram		55.00	55.0		
38		Drivers Colony		11.00	0.0		
		Sub Total		71.00	60.00		Complied
39	Kurnool	Jammichettu	12.03.2019	0.80	0.80	Operational	Complied
40		SankalBagh	12.03.2019	0.80	0.80	Operational	Complied
41		Tungabhadra PumpHouse	10.03.2018	0.80	0.80	Operational	Complied
		Sub Total		2.40	2.40		Complied
42	Tadepalli	Mahanadu-1	10.12.2018	0.20	0.20	Operational	Complied
43		Mahanadu-2	15.12.2018	0.20	0.20	Operational	Complied
44	Kondapalli	Security Colony		0.80	0.80	Operational	Complied
		Grand Total		516.65	387.77		

III (B) Details of Under Construction STPs in the State

S.No.	Location	Scheme Name	No. of STP	Capacity of the plant in MLD	Physical Progress in %	Completion Timeline
1	Yemmiganur	UIDSSMT	1	19.80	96%	December 2021
2	Srikakulam	AMRUT	1	10.00	45%	March 2022
3	Vizianagaram	AMRUT	1	5.00	55%	March 2022
4	GVMC	Smart City (Package-I)	1	54.00	90%	March 2022
5	Kakinada	AMRUT	1	5.00	39%	March 2022
6	Rajamahendravaram	AMRUT	1	5.00	16%	December 2022
7	Bhimavaram	AMRUT	1	5.00	42%	December 2022
8	Tadepalligudem	AMRUT	1	5.00	0%	Retenders are in Progress and work is Expected to be completed by December 2022
9	Eluru	AMRUT	1	5.00	49%	June 2022
10	Machilipatnam	AMRUT	1	5.00	48%	April 2022
11	Gudivada	AMRUT	1	5.00	42%	April 2022
12	Vijayawada	JNNURM	1	20.00	83%	March 2022
13	Tenali	AMRUT	1	10.00	35%	June 2022
		14 FC	1	2.00	30%	August 2022
14	Ongole	AMRUT	1	15.00	72%	March 2022
15	Chilakaluripeta	AMRUT	1	5.00	21%	March 2022
16	Kavali	AMRUT	1	15.00	77%	March 2022
17	Nellore	HUDCO	1	20.00	85%	March 2022
			1	14.00	0%	Existing site dispute. New site to be identified. work will be completed in a one year time.
18	Tirupati	Smart City	1	25.00	25%	March 2022
19	Srikalahasti	AMRUT	1	7.00	40%	June 2022
20	Madanapalle	AMRUT	1	5.00	20%	August 2022
21	Kadapa	AMRUT	1	20.00	00%	Re -Tenders are invited
22	Anantapuramu	AMRUT	1	10.00	0%	Re Tenders are in process and work is expected to be completed by December

						2022.
23	Dharmavaram	AMRUT	1	15.00	0%	Re Tenders are in process and work is expected to be completed by December 2022.
24	Guntakal	AMRUT	1	8.00	0%	December 2022
25	Kurnool	AMRUT	1	2.00	80%	March 2022
		AMRUT	1	10.00	14%	December 2022
26	Nandyal	AMRUT	1	10.00	20%	March 2022
27	Adoni	AMRUT	1	5.00	24%	March 2022
28	Guntur	OTSFA	1	10.00	52%	Jun 2022
			1	20.00	52%	Jun 2022
			1	42.00	51%	Jun 2022
			1	28.00	51%	Jun 2022
			1	23.00	0%	Due to existing site dispute new site to be identified. Upon finalization of the new site work will be completed in one year time.
29	Pulivendula	PLAN	1	10.00	37%	December 2022
			1	1.50	32%	December 2022
			7 (0.5MLD x 7nos)	3.50	0%	December 2022
			1	0.02	0%	December 2022
			1	0.07	0%	December 2022
			1	0.08	0%	December 2022
			1	0.10	0%	December 2022
30	Rayachoti	PLAN	6	22.40	0 %	August 2023
31	Kondapalli	CSR Funds	1	2.00	12 %	July 2023
32	Kanigiri	AIIB	1	6.00	0 %	August 2023
33	Sullurpet	AIIB	3	8.00	0 %	August 2023
34	Allagadda	AIIB	1	5.00	0 %	August 2023
35	Nandikotkur	AIIB	1	5.00	0 %	August 2023
36	Madakasira	AIIB	1	5.00	0 %	August 2023
Grand Total			62	533.47		

III (C) Details of Proposed STPs in the State:

Phase	Description	No. of ULBs	Proposed STP capacities (MLD)	Cost of Total STPs (crores)
I	Municipal Corporations	16	539.00	1617.00
II	ULBs having population above 1,00,000 Lakh	18	221.00	663.00
III	ULBs having Population ranging between 75,000 to 1.00 Lakh	8	43.00	129.00
IV	ULBs having Population less than 75,000	78	499.00	1497.00
V	Taxes and others etc @20%			781.20
	Total		1302.00	4687.20

III D) STATUS OF STPs UNDER RIVER STRETCHES:

- Total Estimated Sewage Generation (in MLD) 2020 :302.00 MLD
- Existing no. of STP with Treatment Capacity (in MLD) :162.40 MLD
- Present Gap in Treatment Capacity (in MLD) : 139.60 MLD
- Capacity of under Construction STPs (in MLD) : 57.00 MLD
- Gap after completion of ongoing Projects : 82.60 MLD

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-IV RIVERS						
1.	Tungabhadra	Kurnool	2.40 MLD	10 MLD	14 %	Rs.79.78 crs accorded administrative sanction for construction of STPs with capacity of 35.60MLD which is in tender process.
				2 MLD	80 %	
2	Kundu	Nandyal	0.00	10 MLD	20%	Comprehensive DPR on UGD scheme is prepared for Rs.85.00 Cr with STPs capacity of 26 (21 + 5) MLD to cater the needs of 2035 year. DPR submitted to the Govt. for according Administrative Sanction.

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-V RIVERS						
1.	Nagavali	Srikakulam	0.00	10 MLD	45%	Comprehensive proposal for providing UGD scheme for 2035 is prepared for an amount of Rs.190.36 Cr with an additional STP capacity of 12 MLD.
2.	Godavari	Rajamahendravaram	30.00	5 MLD	16%	DPR on Comprehensive UGD scheme prepared with additional STP's of capacity 72.37 MLD for an amount of Rs.404.00 Cr. RMC has attended the remarks and resubmitted the proposals. Now it is proposed to take up the works with an estimated cost of Rs.107.00 crores in the first year.
3.	Krishna	Vijayawada	130.00	20 MLD	83%	DPR is prepared for Rs.246.38 Cr for providing Comprehensive UGD scheme to meet the 2035 demand including up-gradation of 2 STPs of 30.00 MLD capacity.

IV. Details of Industrial Pollution:

- No. of industries in the State: 9947No's
- No. of water polluting industries in the State: 1438 No's
- Quantity of effluent generated from the industries in MLD: 4541.90 MLD

Effluent Break-Up Details:

- Once through Cooling water: 3826.13 MLD
- Trade effluents:412.09 MLD
- cooling tower/Boiler blow down: 254.12 MLD

- Domestic waste water: 49.563 MLD

From the total waste water generation from the industries, major portion is once through cooling water (about 85%) and temperature to be maintained for discharge of once through cooling system is not more than 5⁰C temperature of intake water.

- ✓ From the Cooling tower/Boiler blow down (about 5.6%).
 - ✓ The remaining about 9.4% is generated from Trade effluent & Domestic Discharges.
 - ✓ APPCB is not permitting any industry to discharge industrial / trade effluents into the rivers.
- Number of industrial units having ETPs: 1093 No's
 - Number of industrial units connected to CETP: 345 No's
 - Existing: 1093 no's ETPs
 - Under construction: Nil
 - Proposed: Nil
 - **Compliance status of the ETPs:**
 - ✓ APPCB is regularly monitoring the compliance status of ETPs and action is being initiated for non-compliance industries.
 - Number and total capacity of CETPs (details of existing/ under construction / proposed)
 - Existing: 8 No's with total capacity of 21.5 MLD
 - Proposed: 3 no's
 - 1.5 MLD at Atchuthapuram SEZ, Visakhapatnam
 - 1.5 MLD at Nakkapalli, Visakhapatnam.
 - 1.2 MLD at Chittoor District

• Status of compliance and operation of the CETPs

S.No	Name and Address of the CETP & contact person	Design capacity (in MLD)	Current Operating capacity (in MLD)	Type and No. of member units	Compliance status
1.	Brandix India Apparel City Private Limited, APSEZ, Atchutapuram Pudimadaka Road, Visakhapatnam.	5	*4	Textile park- 14 units	Complied Complied * APPCB permitted to establish 20 MLD capacity of CETP for operation full capacity industrial park. At present 5 MLD CETP was constructed as the effluent generation is 4 MLD.
2.	RamkyPharma City (India) Ltd, JN PharmaCity, Parawada Mandal, Visakhapatnam.	9.53	5.5	Pharmaceutical & Bulk drugs-92 units	Complied
3.	Kondapally Envirotech Pvt. Ltd., (KEPL), IDA, Kondapalli(V), Ibrahimpatnam (M), Krishna District.	0.2	0.0	Pharmaceutical & Bulk drugs-14 units	*Under up-gradation. Works will be completed by end of December 2021 and effluent sent to CETP, JNPC for further treatment until December 2021
4.	Vijayawada Auto Cluster Development Company, Industrial Estate, Auto Nagar, Vijayawada.	0.2	0.04	Food beverages, Herbal pharma, Oil solvents & lubricants - 35 units.	Complied
5.	Machilipatnam Imitation Jewellery Park Pvt. Ltd., Jewellery Park, Potheppalli, Machilipatnam.	0.07	0.002	Electro Plating – 48 Units	Complied
6.	Nagari Dyeing Owners Association, Chinthalapatteda (V), Nagari (M), Chittoor District.	4	1.2	Manual Dyeing units - 105 units	Complied
7.	Atchuthapuram Effluent Treatment Plant, Atchutapuram Visakhapatnam.	1.5	0.5	Pharmaceutical & Bulk drugs-36 units	Complied
8.	M/s Andhra Pradesh Industrial Infrastructure Corporation Limited (APIIC), 1.0 MLD CEPT, MPSEZ, Menakur (V), Naidu pet (M), SPSR Nellore District.	1.0	0.2	Pharmaceutical – 8 Units	Complied Started operations in the month November 2021.
	Total	21.5	11.242		

V. Solid Waste Management:

- Total number of Urban Local Bodies: **123** and their Population: **1.5** Crore
- Current Municipal Solid Waste Generation: **6898** TPD. for 123 ULBs (13 Newly Constituted ULBs – These ULBs have not yet developed urban Dynamics).
- Power generation from 15MW Waste to Energy project at Guntur has started and the plant is synchronized with the grid. Another 15MW Waste to Energy project at Visakhapatnam is under progress and expected to commission by January 2022.
- 32 Wet Waste Projects covering 35 ULBs treating 1435 TPD with an installed capacity of 1625 TPD are existing.
- 17 Wet Waste Projects covering 17 ULBs are in progress with an installed capacity of 397 TPD.
- Tenders were called for selection of agencies to establish ISWM projects in 72 ULBs under PPP mode. Evaluation completed and file circulated to Government of Andhra Pradesh for approval.
- 3 Construction and Demolition waste processing plants in Greater Visakhapatnam Municipal Corporation, Vijayawada Municipal Corporation and Tirupati Municipal Corporation treating 100 TPD with an installed capacity of 200 TPD are existing.
- 114 Dumpsites with an area of 1000 acres are existing in the state. Out of which remediation of dumpsites in 2ULBs (Vijayawada & Tirupati) was completed. and in one ULB Vishakhapatnam work is under progress.
- Quantification of Dumpsites in ULBs with 1 Lakh above Population is completed a modal RFP along with guidelines for dumpsite remediation was communicated to all the ULBs. and they were Instructed to take up the tender process for remediation of dumpsites. 6 ULBs have invited tenders for dumpsite remediation. Out of them 2 ULBs finalized tenders and issued work orders and tenders in 4 ULBs is under progress.
- No Dump sites of legacy waste are within 1km buffer of both sides of the rivers in the state.
- 79 Material Recovery facilities covering 79 ULBs treating 810 TPD with an installed capacity of 1000 TPD Existing.
- 45 Material Recovery facilities covering 45 ULBs are in progress with an installed capacity of 500 TPD.

- The Source Segregation in the State is 83.00% and capacity utilization of the treatment units is the same percentage, Ward Secretariats and volunteer system established and unique in the State are ensuring 99 % door to door collection.
- Total no. of wards: 3946 No. of wards having door to door collection service: 3906. No. of wards practicing segregation at source: 3246.

Status of ULB wise Management of Solid Waste:

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
1	Amudalavalasa	19	Existing WtC	10	85%	Vizag WtE		Established	4	85%
2	Ichchapuram	18	Existing WtC	10	85%	Feasibility Study under progress		Established	2	85%
3	Palasa-kasibugga	28	Existing WtC	15	80%	Feasibility Study under progress		In Progress		
4	Rajam	21	Existing WtC	12	80%	Vizag WtE		Established	4	85%
5	Bobbili	29	Existing WtC	16	90%	Vizag WtE		Established	8	85%
6	Salur	24	Existing WtC	13	90%	Vizag WtE		Established	6	90%
7	GVMC	918	Existing WtC	505	85%	Vizag WtE		Established	300	85%
8	Narsipatnam	30	Existing WtC	17	80%	Vizag WtE		Established	8	85%
9	Yellamanchali	23	Existing WtC	13	80%	Vizag WtE		Established	4	85%
10	Adoni	81	Existing WtCNG	45	80%	Connected to Cement Factories	3	Established	20	85%
11	Nuzivid	29	Existing WtC	16	80%	Guntur WtE		In Progress		
12	Thiruvuru	17	Existing WtCNG	9	80%	Guntur WtE		Established	2	85%
13	Tenali	80	Existing WtC	44	90%	Guntur WtE		Established	20	90%
14	Sattenpalle	28	WtCNG - Pidugurala	15	85%	Guntur WtE		Established	6	85%
15	Narsaraopet	57	WtCNG - Pidugurala	31	85%	Guntur WtE		Established	16	85%
16	Piduguralla	31	Existing WtCNG	17	85%	Guntur WtE		In Progress		
17	Allagadda	20	Existing WtC	11	85%	Connected to Cement Factories	1	Established	4	85%
18	Rayadurgam	30	Existing WtC	17	85%	RDF inprogress		Established	6	85%
19	Puttaparty	15	Existing WtC	8	85%	RDF inprogress		Established	2	85%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
20	Yemmiganur	46	WtCNG - Adoni	25	85%	RDF inprogress		Established	10	85%
21	Anantapur	131	WtCNG Planned	0		Connected to Cement Factories	8	Established	35	90%
22	Atmakur K	22	WtC Awarded	0		Connected to Cement Factories	1	Established	4	90%
23	Badvel	35	WtC Planned	0		Connected to Cement Factories	2	In Progress		
24	Dhone	29	WtC Planned	0		Connected to Cement Factories	2	Established	6	90%
25	Markapur	35	Existing WtC	19	80%	Feasibility Study under progress		Established	8	85%
26	Giddalur	19	Existing WtC	10	85%	RDF inprogress		Established	4	85%
27	Kanigiri	22	Existing WtC	12	85%	Feasibility Study under progress		Established	4	85%
28	Chirala	42	Existing WtC	23	90%	Guntur WtE		Established	9	90%
29	Gudivada	58	WtCNG awarded	0		RDF Connected / Guntur WtE	3	Established	14	90%
30	Palamaneru	25	Existing WtC	14	85%	Feasibility Study under progress		In Progress		
31	Punganur	27	Existing WtC	15	80%	Feasibility Study under progress		Established	6	85%
32	Madanpalle	67	Existing WtCNG	37	85%	RDF inprogress		In Progress		
33	Sullurpet	22	Existing WtC	12	80%	Feasibility Study under progress		Established	4	85%
34	Srikakulam	65	WtCNG Planned	0		Vizag WtE		Established	16	90%
35	Palakonda	16	WtC Awarded	0		Vizag WtE		In Progress		
36	Vizianagaram	119	WtCNG Planned	0		Vizag WtE		Established	30	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
37	Parvathipuram	26	WtC Awarded	0		Vizag WtE		In Progress		
38	Nellimarla	14	WtC Planned	0		Vizag WtE		Established	2	90%
39	Gudur N	36	WtC Planned	0		Connected to Cement Factories	2	In Progress		
40	Guntakal	62	WtC Planned	0		Connected to Cement Factories	2	Established	14	90%
41	Jaggaiahpet	26	WtCNG awarded	0		RDF Connected / Guntur WtE	1	In Progress		
42	Jammalamadugu	22	Existing WtC	12	80%	Connected to Cement Factories	1	In Progress		
43	Pedana	16	WtC Awarded	0		Guntur WtE		In Progress		
44	Vuyyuru	20	WtC Awarded	0		Guntur WtE		In Progress		
45	Guntur	363	WtCNG Planned	0		Guntur WtE		Established	80	90%
46	Mangalagiri - Tadepalle	70	WtC Planned	0		Guntur WtE		Established	16	90%
47	Ponnur	29	WtC Planned	0		Guntur WtE		Established	6	90%
48	Chilakaluripet	49	WtC Planned	0		Guntur WtE		Established	12	90%
49	Bapatla	34	WtCNG awarded	0		Guntur WtE		Established	8	90%
50	Repalle	25	WtC Awarded	0		Guntur WtE		Established	4	90%
51	Vinukonda	30	WtCNG awarded	0		Guntur WtE		InProgress		
52	Macherla	28	Existing WtC	0		Feasibility Study under progress		Established	6	90%
53	Kadapa	167	WtCNG Planned	0		Connected to Cement Factories	6	Established	40	90%
54	Dharmavaram	62	WtC Planned	0		RDF in progress		In Progress		
55	Kadiri	43	WtC Awarded	0		Connected to Cement Factories	1	Established	8	90%
56	Gooty	24	WtC Planned	0		RDF in progress		Established	4	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
57	Pamidi	14	WtC Planned	0		RDF inprogress		In Progress		
58	Hindupur	74	WtC Awarded	0		RDF inprogress		In Progress		
59	Kurnool	224	WtCNG Planned	0		Connected to Cement Factories	2	In Progress		
60	Kalyandurgam	21	WtC Awarded	0		RDF inprogress		Established	2	90%
61	Madakasira	12	WtC Awarded	0		RDF inprogress		Established	2	90%
62	Machilipatnam	89	WtC Awarded	0		RDF Connected / Guntur WtE	3	Established	20	90%
63	Mydukur	22	WtC Planned	0		Connected to Cement Factories	1	In Progress		
64	Nandigama	22	WtCNG awarded	0		RDF Connected / Guntur WtE	1	In Progress		
65	Nandikotkur	23	WtC Planned	0		Connected to Cement Factories	1	Established	4	90%
66	Gudur K	14	WtC Planned	0		RDF in progress		In Progress		
67	Nandyal	98	WtCNG Planned	0		Connected to Cement Factories	3	In Progress		
68	Proddatur	79	WtCNG Planned	0		Connected to Cement Factories	2	In Progress		
69	Pulivendula	32	Existing WtC	18	85%	Connected to Cement Factories	2	Established	6	85%
70	Rajahmundry	168	WtCNG Planned	0		Connected to Cement Factories	3	Established	40	90%
71	Rajampeta	23	WtC Planned	0		Connected to Cement Factories	1	In Progress		
72	Rayachoti	44	WtC Planned	0		Connected to Cement Factories	2	Established	8	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
73	Tadipatri	53	Existing WtC	29	90%	Connected to Cement Factories	2	Established	10	90%
74	Tirupati	208	Existing WtCNG	114	85%	Connected to Cement Factories	4	Established	45	85%
75	Ongole	123	WtCNG awarded	0		Guntur WtE		Established	30	90%
76	Chimakurthy	17	WtC Awarded	0		Guntur WtE		In Progress		
77	Addanki	20	WtC Awarded	0		Guntur WtE		Established	4	90%
78	Kandukur	28	WtC Awarded	0		Feasibility Study under progress		Established	6	90%
79	Kakinada	159	WtCNG Planned	0		Feasibility Study under progress		Established	35	90%
80	Vijayawada	507	Existing WtC	279	85%	RDF Connected / Guntur WtE	6	Established	150	85%
81	Gollaprolu	11	WtC Planned	0		Feasibility Study under progress		In Progress		
82	Pithapuram	25	WtC Planned	0		Feasibility Study under progress		Established	3	90%
83	Peddapuram	24	WtC Planned	0		Feasibility Study under progress		Established	3	90%
84	Samalkota	28	WtC Planned	0		Feasibility Study under progress		Established	4	90%
85	Yeleswaram	16	WtC Planned	0		Feasibility Study under progress		Established	2	90%
86	Ramachandrapuram	21	WtC Planned	0		Feasibility Study under progress		Established	2	90%
88	Mandapeta	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
88	Tuni	26	WtC Awarded	0		Feasibility Study		Established	3	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
						under progress				
89	Mummidivaram	12	WtC Awarded	0		Feasibility Study under progress		Established	2	90%
90	Amalapuram	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%
91	Eluru	106	WtCNG Planned	0		Feasibility Study under progress		Established	22	90%
92	Tadepalligudem	51	WtC Planned	0		Feasibility Study under progress		Established	8	90%
93	Tanuku	44	WtC Planned	0		Feasibility Study under progress		In Progress		
94	Palakollu	33	WtC Planned	0		Feasibility Study under progress		In Progress		
95	Narsapuram	29	WtC Planned	0		Feasibility Study under progress		Established	4	90%
96	Bhimavaram	69	WtC Planned	0		Feasibility Study under progress		Established	12	90%
97	Nidadavole	21	WtC Planned	0		Feasibility Study under progress		In Progress		
98	Kovvur	19	WtC Planned	0		Feasibility Study under progress		In Progress		
99	JangareddyGudem	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
100	Chittoor	92	WtCNG Planned	0		Feasibility Study under progress		Established	18	90%
101	SriKalahasti	39	WtC Planned	0		Feasibility Study under progress		Established	8	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
102	Nagari	30	WtC Planned	0		Feasibility Study under progress		In Progress		
103	Puttur	26	WtC Planned	0		Feasibility Study under progress		In Progress		
104	Nellore	300	WtCNG Planned	0		Feasibility Study under progress		In Progress		
105	Venkatagiri	25	WtC Planned	0		Feasibility Study under progress		In Progress		
106	Yerraguntla	17	WtC Planned	0		Connected to Cement Factories	1	In Progress		
107	Naidupet	22	Tenders Evaluation in Process	0		Feasibility Study under progress		Established	4	90%
108	Atmakur N	15	Tenders Evaluation in Process	0		Feasibility Study under progress		In Progress		
109	Kavali	51	Tenders Evaluation in Process	0		Feasibility Study under progress		Established	10	90%
110	Akiveedu	11	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
111	Kondapalli	21	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
112	Dachepali	11	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
113	Gurazala	9	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
114	Darsi	12	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
115	BuchireddyPale m	12	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
116	Penukonda	10	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
117	Bethamcharla	14	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
118	Kamlapuram	7	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
119	Kupam	15	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
120	Y.S.R. - Tadegadapa	23	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
121	Chuintalapudi	4	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
122	Podili	6	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
123	Alluru	9	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
124	B.KothaKota	6	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
Total		6898								

VI. Bio-medical Waste Management:

- Total Bio-medical generation: 16.979 Tones/ day
- No. of Hospitals and Health Care Facilities: 11,737 Nos.

Status of Treatment Facility/ CBMWTF	:	Presently, there are 12 Nos. of Common Bio-medical Waste Treatment Facilities (CBMWTFs) in covering total 13 Districts in Andhra Pradesh for treatment and disposal of bio-medical waste as per the BMW Management Rules 2016.
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VII. Hazardous Waste Management:

- Total Hazardous Waste generation about: 6,48,308.380TPAas per hazardous waste inventory, 2020-21.
- No of industries generating Hazardous Waste:2708 Nos as per Hazardous Waste inventory, 2020 -21.
- **For the month of November, 2021, the Quantity of Hazardous Waste Treated & Disposed is as follows:**

- Utilizable waste is 13546.556TPM (suitable to use as raw material or as alternative fuel viz. Co-processing in Cement Plants so as to conserve the resources),
- Recyclable waste is 113.78 TPM (suitable for recycling /recovery of material viz. oil reclamation units, lead and zinc recovery units).
- Incinerable waste is 358.835 TPM (not suitable for any recycling / reuse and having high calorific value i.e. > 2500 K cal/kg) and
- Land fillable waste is 11843.027TPM (not suitable for any recycling / reuse and having low calorific value i.e. < 2500 K cal/kg) is reaching and treated at the TSDFs in Visakhapatnam and Nellore.

- **Details of on-going or proposed TSDF:**

Two TSDF are existing in the State of Andhra Pradesh

- ✓ M/s Coastal Waste Management Project Unit-1, Parwada, Visakhapatnam.
- ✓ M/s Coastal Waste Management Project Unit-2 a division of Mumbai Waste Management Limited, S.P.S.R. Nellore District.

VIII. Plastic Waste Management:

Total plastic waste generation	39,626 TPA (As per Annual Report for the F.Y. 2020-21).
Treatment / Measures adopted for reduction or management of plastic waste	<ul style="list-style-type: none">• The recyclable plastic waste generated is being sent to recycling units and the non-recyclable plastic waste is being sent to cement plants and utilizing for road construction in some ULBs. 24 Nos of recyclers registered with APPCB. Total recycling capacity is 26732 TPA.• 29 ULBs tied up with nearby Cement Plants for co-incineration of non- recyclable plastic waste and 5123 MTs of Non-recyclable plastic waste was sent to cement plants for the F.Y 2020-21.• The MA&UD and PR&RD Dept., informed that they have been conducting strict vigilance and surprise visits on those who store or use or sell or dispose plastic with less than 50 microns' thickness, for which 721 Task force teams were constituted for inspections and raids to control plastic sale and usage of less than 50 microns' thickness carry bags / films in the ULBs of A.P. About 240 tons of plastic carry bags were seized and Rs. 169 lakhs towards fine was collected.

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

Details of Faecal Sludge Treatment Plants:

No. of Completed FSTPs	:	2 (30 KLD)
No. of In-progress FSTPs	:	64 (950 KLD)
No. of FSTPs to be retendered	:	11 (175 KLD)
No. of FSTPs DPRs to be prepared	:	10

IX(A): Details of Completed FSTPs:

S.No.	Name of ULB	Capacity(in KLD)	Operational Status of FSTP
1	Narsapur	15	Operational
2	Rajam	15	Operational

IX(B): Details of In-Progress FSTPs:

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
1	Dhone	20	75 % of Work Completed , Jan- 22
2	Gooty	15	June-22
3	Jammalamadugu	15	June-22
4	Kadiri	25	June-22
5	Kalyanadurgam	10	June-22
6	Madakasira	5	June-22
7	Paamidi	10	June-22
8	Pulivendula	20	June-22
9	Puttaparthi	10	June-22
10	Rayachoti	25	June-22
11	Rayadurg	20	June-22
12	Allagadda	10	June-22
13	Atmakur (K)	15	June-22
14	Badvel	25	June-22
15	Gudur (K)	5	June-22
16	Mydukuru	15	June-22
17	Nandikotkur	15	June-22
18	Palamaneru	15	Ready for inauguration
19	Punganur	15	June-22
20	Rajampeta	15	June-22
21	Yerraguntla	10	June-22
22	Atmakur (N)	10	June-22
23	Giddalur	10	June-22
24	Gudur (N)	20	June-22
25	Kandukur	20	June-22
26	Kanigiri	15	June-22
27	Markapur	20	March - 22
28	Nagari	20	June-22
29	Naidupet	15	June-22
30	Puttur	15	June-22
31	Sullurpeta	15	June-22
32	Venkatagiri	15	June-22
33	Addanki	10	June-22
34	Bapatla	25	Mar-22
35	Chimakurthy	10	June-22
36	Chirala	25	Mar-22
37	Macherla	15	June-22
38	Mangalagiri	25	June-22

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
39	Piduguralla	15	June-22
40	Ponnur	15	Mar-22
41	Repalle	15	June-22
42	Sattenapalli	15	June-22
43	Vinukonda	15	Ready for inauguration
44	Amalapuram	15	June-22
45	Gollaprolu	5	June-22
46	Kovvur	10	June-22
47	Mandapeta	15	June-22
48	Mummidivaram	10	June-22
49	Peddapuram	15	June-22
50	Pithapuram	15	June-22
51	Ramachandrapuram	15	June-22
52	Samalkota	15	June-22
53	Tuni	15	June-22
54	Yeleshwaram	10	June-22
55	Amudalavalasa	10	June-22
56	Bobbili	15	Ready for inauguration
57	Ichapuram	10	June-22
58	Narsipatnam	20	June-22
59	Nellimarla	10	June-22
60	Palakonda	10	June-22
61	Palasa-Kasibugga	15	June-22
62	Parvathipuram	15	June-22
63	Salur	15	June-22
64	Yelamanchili	15	June-22
Total		950	

IX (C) Details of FSTPs to be Retendered:

S.No	Name of the ULB	Capacity of Plant (KLD)
1	Jangareddigudem	15
2	Nidadavolu	15
3	Palacole	20
4	Pedana	10
5	Tadepalli	20
6	Tanuku	25
7	Vuyyuru	15
8	Jaggaihpeta	15
9	Nandigama	15
10	Nuzividu	15
11	Tiruvuru	10

IX(D) Details of FSTPs DPRs to be Prepared:

S.No	Name of ULB	Status of the project
1	Akiveedu	DPR to be prepared - Newly Constituted ULB
2	Kondapalli	DPR to be prepared - Newly Constituted ULB
3	Dachepali	DPR to be prepared - Newly Constituted ULB
4	Gurazala	DPR to be prepared - Newly Constituted ULB
5	Darsi	DPR to be prepared - Newly Constituted ULB
6	BuchireddyPalem	DPR to be prepared - Newly Constituted ULB
7	Penukonda	DPR to be prepared - Newly Constituted ULB
8	Bethamcharla	DPR to be prepared - Newly Constituted ULB
9	Kamlapuram	DPR to be prepared - Newly Constituted ULB
10	Kupam	DPR to be prepared - Newly Constituted ULB

- X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment:
- contributing to River Pollution. All the above 32 No's of outfall points are provided with Meshes/Screens to prevent solid waste from falling in to the Rivers.
- XI. **Details of Nodal Officer appointed by Chief Secretary in the State/UT:**
Commissioner & Director of Municipal Administration Appointment as a Nodal Officer for Polluted River stretches as per G.O.RT. No: 103 EFS&T Department
Dated: 25-11-2020.
- XII. Details of meetings carried under the Chairmanship of Chief Secretary in the State/UT:
- XIII. **Latest water quality of polluted river, its tributaries, drains with flow details:**
- APPCB has been monitoring the 5 polluted river stretches at 27 locations on monthly basis and the data is being uploaded in RRC Website <https://rrc.ap.gov.in/Views/Monitoring.aspx> every month. **The monitoring of water quality data for the month of October, 2021 is enclosed.**
 - **As per the analysis of samples collected at 27 locations in the month of October, 2021 the B.O.D value is less than 3.0 mg/lit. (Details enclosed)**
- XIV. Ground water regulation:
- XV. Good irrigation practices being adopted by the State:

- XVI.** Rain Water Harvesting:
- XVII.** Demarcation of Floodplain and removal of illegal encroachments:
- XVIII.** Maintaining minimum e-flow of river:
- XIX.** Plantation activities along the rivers:
- XX.** Development of biodiversity park:
- XXI.** Reuse of Treated Water:
- XXII.** Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:
- XXIII.** Status of Preparation of Action Plan by the 13 Coastal States:
- XXIV.** Regulation of Mining Activities in the State/UT:
- XXV.** Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring.

ENCLOSURES

ANNEXURE

Water quality status of polluted river stretches in Andhra Pradesh - 2021

I. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 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, 2021

Parameter	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Standard		
														Class A	Class B	Class C
														pH	4367	7.44
4359	7.50	6.85	7.07	6.96	----	----	8.24	7.71	7.82	7.75	7.41					
0014	7.52	7.52	7.53	7.22	7.76	7.61	7.40	7.72	7.62	7.55	7.52					
1218	7.36	7.75	7.08	7.31	7.87	7.67	7.42	7.47	7.57	7.48	7.65					
2370	7.69	7.30	6.84	7.92	7.02	7.44	6.60	7.81	7.80	7.39	8.07					
2371	7.05	7.19	6.97	7.90	7.78	7.25	6.75	7.60	7.62	7.41	7.81					
1219	7.25	7.21	6.83	7.59	7.02	7.34	6.51	7.53	7.66	6.82	7.54					
4365	7.22	7.42	7.22	7.5	7.38	7.83	7.27	7.46	7.66	7.47	7.80					
4366	7.33	7.71	7.30	7.73	7.62	7.69	7.30	7.41	7.79	7.37	7.78					
4358	7.57	6.95	7.52	7.49	7.38	7.75	7.57	7.58	7.36	7.57	7.33					
DO	4367	5.6	5.4	6.2	6.9	---	----	6.3	6.2	6.5	7.0	7.0		6.0	5.0	4.0
	4359	8.5	8.5	8.2	8.0	---	----	7.5	8.8	7.5	6.9	8.0				
	0014	6.0	7.9	6.7	6.0	6.6	7.5	6.7	6.8	6.0	8.2	7.2				
	1218	7.0	6.2	6.4	6.3	6.5	8.0	6.5	7.5	6.6	6.5	7.1				
	2370	8.4	8.0	6.8	6.6	6.6	7.0	7.6	7.5	7.2	7.4	7.2				
	2371	7.5	6.5	6.6	6.4	6.1	6.6	7.5	7.0	7.0	6.8	6.4				
	1219	7.2	7.8	8.5	6.9	6.8	6.4	7.0	7.6	7.9	7.0	7.1				
	4365	5.8	7.2	8.0	8.5	6.6	8.5	6.5	7.0	6.5	7.2	6.8				
	4366	5.4	7.0	7.0	7.6	6.5	7.0	6.0	6.0	6.2	5.9	6.7				
4358	5.4	6.5	5.6	5.0	6.6	6.8	6.1	7.0	7.2	6.8	5.8					
BOD	4367	1.8	2.2	2.0	1.8	----	----	2.1	2.4	2.2	2.0	1.1		2.0	3.0	3.0
	4359	1.5	1.5	2.2	1.8	----	----	1.0	1.2	1.2	1.0	2.0				
	0014	1.8	2.2	1.9	1.8	1.7	2.2	1.5	1.5	1.8	1.2	1.4				
	1218	2.0	1.0	2.0	1.5	1.7	1.8	1.7	1.6	1.6	1.6	1.8				
	2370	1.4	1.4	2.6	2.2	2.0	1.8	2.0	2.0	2.0	2.2	2.2				
	2371	1.8	2.2	2.8	2.6	2.2	2.0	2.2	2.2	2.2	2.4	2.6				
	1219	2.0	1.6	1.4	1.8	1.6	1.8	1.6	2.2	2.0	2.0	1.8				
	4365	2.0	2.0	1.5	1.5	1.8	1.5	2.0	1.8	2.0	1.4	2.1				
	4366	2.6	2.3	2.0	2.0	2.4	2.2	2.4	2.2	2.5	2.0	2.4				
	4358	2.4	1.6	1.5	2.2	1.4	1.2	1.4	1.2	1.4	1.2	1.6				

Total Coliform	4367	150	150	120	120	---	----	150	150	120	120	210	50	500	5000
	4359	75	39	64	60	---	----	49	49	64	39	49			
	0014	120	120	120	120	120	93	120	93	120	75	120			
	1218	93	93	93	93	93	120	93	120	120	120	93			
	2370	150	120	120	120	120	93	120	120	120	120	120			
	2371	210	210	150	150	150	120	150	150	150	150	150			
	1219	210	240	120	120	150	150	150	150	120	150	150			
	4365	150	150	120	150	120	120	120	120	120	150	120			
	4366	210	210	210	240	150	150	150	150	150	210	150			
	4358	93	120	73	120	120	93	93	93	120	120	120			
Fecal Coliform	4367	15	9	9	9	---	----	15	15	15	7	15	---	500	---
	4359	4	4	4	4	---	----	4	4	4	4	3			
	0014	9	9	9	15	9	7	9	9	9	7	9			
	1218	7	7	7	7	4	9	4	9	11	9	7			
	2370	9	9	9	9	9	9	9	9	9	9	9			
	2371	15	20	15	15	15	15	15	11	15	15	11			
	1219	23	23	7	9	21	21	15	15	9	15	15			
	4365	15	11	9	15	9	9	7	9	9	15	9			
	4366	23	15	11	23	15	15	15	15	15	21	15			
	4358	7	7	4	9	11	7	7	7	11	7	7			
TDS	4367	420	220	444	324	---	----	358	268	180	220	278	500 - 2000		
	4359	120	88	84	84	---	----	92	96	78	70	80			
	0014	160	156	108	106	140	124	192	160	152	196	168			
	1218	156	148	102	98	120	120	120	152	186	200	156			
	2370	220	168	172	168	128	180	172	146	152	166	196			
	2371	252	228	204	202	144	198	188	160	188	180	268			
	1219	208	166	124	98	140	140	164	172	176	240	198			
	4365	10560		25064		22820	3160	2307	398	340	236	8162			
			18848		21532		0	2							
	4366	23256		32208		23580	3186	2362	5048	360	260	8428			
		23572		34668		4	0								
4358	17392		34280		16280	2572	2194	620	258	296	4760				
		22032		29360		8	8								

Note:(1) All values are expressed in mg/L except pH & Total Coliform value. Total 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 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.

2. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 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, 2021:

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1175	7.8	7.9	7.3	7.7	7.4	7.2	7.4	7.4	7.4	7.5	7.7		6.0 - 8.5	6.0 - 9.0	
	3083	7.7	7.4	7.6	7.7	7.7	7.5	7.9	7.3	7.4	7.5	7.3				
	4381	7.88	7.94	8.19	8.02	7.82	7.76	7.68	7.84	7.19	7.24	7.38				
	1786	7.27	7.30	8.04	7.48	7.66	7.34	8.07	7.93	7.88	7.67	7.43				
	1787	7.22	7.68	7.99	7.38	7.42	7.54	7.91	8.09	7.36	7.42	7.88				
	0025	7.76	7.80	7.92	7.42	7.56	7.46	8.11	7.97	7.28	7.34	7.80				
	4375	7.79	7.80	7.70	7.58	7.46	7.58	8.45	8.01	7.79	8.13	7.83				
	1782	7.30	7.80	7.82	7.90	7.92	7.83	7.51	7.32	7.48	7.34	7.52				

DO	1175	5.7	5.9	5.6	5.6	5.2	5.5	5.5	6.4	6.2	5.5	6.4		6.0	5.0	4.0
	3083	7.7	5.6	5.3	5.3	5.9	5.9	5.9	6.3	6.2	6.1	5.9				
	4381	7.3	7.1	7.2	7.1	7.2	7.3	7.1	7.3	7.4	7.2	7.3				
	1786	7.3	7.2	7.3	7.2	7.1	7.1	7.4	7.5	7.1	7.4	7.4				
	1787	7.1	7.2	7.3	7.2	7.3	7.2	7.4	7.1	7.3	7.2	7.1				
	0025	7.0	7.2	7.1	7.0	7.2	7.1	7.3	7.1	7.2	7.1	7.0				
	4375	7.0	7.1	7.1	7.1	7.2	7.1	7.2	7.1	7.2	7.1	7.2				
	1782	4.4	4.6	4.3	4.2	4.3	4.6	5.2	6.2	6.4	6.8	6.7				
BOD	1175	1.5	1.7	2.5	2.8	2.5	1.2	1.8	1.3	1.2	1.7	2.0		2.0	3.0	3.0
	3083	1.5	1.3	2.7	2.2	1.2	<1	1.5	1.1	1.2	1.0	1.8				
	4381	2.8	2.8	2.8	2.4	2.6	2.6	2.4	2.6	2.4	2.6	2.6				
	1786	2.6	2.4	2.6	2.4	2.6	2.2	2.6	2.6	2.4	2.6	2.6				
	1787	2.4	2.2	2.4	2.6	2.4	2.2	2.2	2.0	1.8	2.0	2.2				
	0025	2.2	2.4	2.6	2.8	2.6	2.4	2.6	2.2	2.0	2.2	2.4				
	4375	2.0	2.2	2.4	2.6	2.6	2.4	2.6	1.8	1.8	2.2	2.2				
	1782	2.6	2.8	2.6	2.8	2.8	2.4	2.8	2.8	2.6	2.4	2.6				
Total Coliform	1175	350	280	920	920	920	840	689	483	420	534	659		50	500	5000
	3083	250	220	1600	920	540	430	491	352	376	483	575				
	4381	120	120	150	75	75	120	150	120	150	120	93				
	1786	150	120	150	120	150	120	120	150	120	150	150				
	1787	93	120	150	120	150	120	150	120	150	120	150				
	0025	120	120	120	75	75	75	93	120	150	120	93				
	4375	130	120	93	93	93	75	120	93	93	75	64				
	1782	64	93	75	75	75	75	64	93	75	75	93				

Fecal Coliform	1175	76	81	350	240	430	350	235	145	229	272	137	---	500	---
	3083	81	76	920	350	280	280	154	193	193	207	78			
	4381	<3	3	3	3	3	3	3	3	3	3	3			
	1786	<3	3	3	3	3	3	3	3	3	3	3			
	1787	<3	3	3	3	3	3	3	3	3	3	3			
	0025	<3	3	3	3	3	3	3	3	3	3	3			
	4375	<3	3	3	3	3	3	3	3	3	3	3			
	1782	<3	3	3	3	3	3	3	3	3	3	2			
TDS	1175	372	428	445	764	623	648	658	186	240	330	402	500 - 2000		
	3083	386	418	389	419	432	376	442	192	196	305	337			
	4381	446	480	470	480	485	490	460	440	378	380	430			
	1786	416	450	540	528	540	526	516	413	396	418	518			
	1787	430	430	460	510	520	534	460	408	355	344	420			
	0025	374	380	418	498	510	442	516	390	386	410	406			
	4375	368	350	384	506	498	426	440	234	248	390	390			
	1782	25100	19000	23300	22400	22800	15380	11800	10400	9730	7320	7940			
Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal Coliform. Total 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. High TDS values at Hamsaladeevi could be attributed due to the intrusion of backwaters of Bay of Bengal.															

3. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 is as follows:

S. No.	Code	Location point
01	1785	Manthralayam, Kurnool Dist.
02	1174	Bhavapuram, Kurnool Dist.
03	4388	U/S of Kurnool town B/C with domestic sewage & A/c of Rayalaseemaalkalies industries at Gondiparla, Kurnool.
04	4389	D/S of Kurnool town A/C with domestic sewage at Gondiparla, Kurnool.

Month-wise data of water quality of river Tungabhadra, 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1785	7.8	7.8	7.8	7.7	7.5	7.6	7.3	7.0	7.5	7.7	7.7		6.0 – 8.5	6.0 – 9.0	
	1174	7.6	7.3	7.7	7.9	7.8	7.9	7.3	7.6	7.7	7.5	7.3				
	4388	6.8	7.4	7.2	7.6	7.0	7.8	7.5	7.2	7.3	7.7	7.4				
	4389	7.1	7.1	6.9	7.6	7.1	7.6	7.6	6.8	7.5	7.7	6.9				
DO	1785	5.3	5.7	4.8	5.0	5.0	5.2	4.8	6.3	5.9	5.9	6.4		6.0	5.0	4.0
	1174	5.5	5.5	5.0	5.3	5.4	5.3	5.3	6.2	5.8	6.0	6.3				
	4388	5.3	4.5	4.3	5.5	4.1	4.3	4.6	6.2	5.9	5.7	6.1				
	4389	5.2	4.9	4.2	5.5	4.4	4.7	5.1	6.1	5.5	5.8	6.1				
BOD	1785	2.8	2.8	3.0	2.5	2.7	2.0	2.5	1.5	1.3	1.5	2.7		2.0	3.0	3.0
	1174	2.3	2.8	2.8	3	2.2	2.3	2.5	1.5	1.5	1.2	2.5				
	4388	2.3	2.7	3.0	1.8	3	2.5	2.8	1.3	1.5	2.5	2.5				
	4389	2.8	3.0	3.0	1.3	2.5	2.2	2.8	1.5	1.8	2.2	2.8				
Total Coliform	1785	540	430	430	350	540	920	866	408	491	549	1203		50	500	5000
	1174	920	540	540	540	920	920	816	437	408	575	1046				
	4388	430	540	920	920	1600	920	870	420	437	649	756				
	4389	540	920	920	540	920	1600	921	491	516	629	921				
Fecal Coliform	1785	210	130	170	130	240	350	454	110	289	368	212		---	500	---
	1174	170	180	220	210	280	430	368	124	145	281	161				
	4388	180	180	350	280	430	240	452	286	170	381	264				
	4389	140	210	430	220	250	350	510	229	272	309	189				
TDS	1785	636	812	724	454	508	714	712	152	296	350	627		500 - 2000		
	1174	738	898	1014	1185	946	1036	502	213	622	287	312				
	4388	1042	1120	1196	1325	1384	1120	523	228	224	630	670				
	4389	779	921	893	1095	1098	836	532	218	492	499	339				

Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal coliform. Total 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.

4. River Nagavali:

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, Total Coliform, Fecal Coliform and TDS for the year, 2021 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.

Month-wise data of water quality of river Nagavali, 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
	4351	7.86	7.30	7.24	7.97	7.66	6.66	8.48	7.58	7.09	7.99	7.25				
pH	1448	7.52	7.45	6.98	8.01	7.27	7.35	8.24	7.56	7.14	7.02	7.26		6.0 – 8.5	6.0 – 9.0	
	4346	8.28	7.62	7.39	8.82	7.33	7.06	7.56	7.36	7.32	7.81	7.22				
	4347	8.10	7.69	7.32	8.37	7.24	7.08	7.49	7.27	7.20	7.75	7.45				
DO	4351	6.0	6.7	6.7	6.2	5.8	6.0	5.8	6.6	7.5	6.6	5.2		6.0	5.0	4.0
	1448	5.9	6.5	8.1	6.5	7.5	6.5	6.5	7.0	6.0	6.5	7.5				
	4346	8.4	7.5	7.5	7.4	8.0	6.0	7.1	6.5	7.0	6.8	6.4				
	4347	6.4	7.2	7.0	7.0	7.5	6.0	6.8	6.0	6.0	6.5	6.0				
BOD	4351	1.3	1.7	1.4	2.1	2.0	1.8	2.2	2.5	1.2	1.5	2.0		2.0	3.0	3.0
	1448	1.9	1.9	1.4	2.0	1.7	1.6	1.9	1.8	1.5	1.7	1.9				
	4346	1.4	2.0	1.6	1.2	1.5	1.7	2.0	1.5	1.7	1.8	1.8				
	4347	1.9	2.2	1.8	1.4	1.8	2.0	2.3	1.8	2.0	2.0	2.0				
Total Coliform	4351	210	150	150	150	150	210	210	210	210	150	210		50	500	5000
	1448	120	120	93	120	120	150	120	120	120	120	120				
	4346	120	120	120	120	120	120	120	120	120	120	120				
	4347	150	150	210	150	150	150	150	150	150	150	150				
Fecal Coliform	4351	21	15	11	15	15	15	15	15	15	15	15		---	500	---
	1448	9	11	9	9	9	15	9	9	9	15	7				
	4346	7	9	7	7	9	9	9	9	9	15	9				
	4347	11	11	15	11	15	15	15	15	15	15	15				
TDS	4351	236	240	224	260	268	262	408	192	192	158	198		500-2000		
	1448	192	240	192	280	256	268	220	196	160	208	188				
	4346	252	224	240	272	232	252	228	220	208	162	220				
	4347	280	260	264	292	276	296	256	256	224	220	234				

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

Remarks: BOD & Fecal coliform values found to within the standard limits stipulated for bathing at all the locations.

5. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 is as follows:

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

Month-wise data of water quality of river Kundu, 2021

Parameters	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
													Class A	Class B	Class C
pH	7.5	7.6	7.3	7.9	7.8	7.7	7.8	7.4	7.2	7.3	7.3		6.0 – 8.5		6.0 – 9.0
DO	5.1	4.8	5.1	5.0	5.6	5.2	5.2	5.9	5.6	5.8	6.2		6.0	5.0	4.0
BOD	2.5	2.5	2.8	1.8	3.0	2.5	2.8	1.8	1.5	2.0	2.2		2.0	3.0	3.0
Total Coliform	920	540	920	1600	1600	1600	1203	594	550	629	1553		50	500	5000
Fecal Coliform	350	280	240	920	350	430	483	376	245	324	324		---	500	---
TDS	446	486	512	706	746	862	648	294	322	410	419		500 - 2000		
Note: All values are expressed in mg/L except pH, Total Coliform & Fecal Coliform value. Total 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.															

CPCB Water Quality Criteria for Designated Best Use

Designated-best- use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection.	A	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 50 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 6 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 2mg/l or less.
Outdoor bathing (Organized)	B	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 500 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 5 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less.
Drinking Water Source after conventional treatment and disinfection.	C	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 5000 or less. • pH between 6 to 9 • Dissolved oxygen 4 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Propagation of Wild life and Fisheries.	D	<ul style="list-style-type: none"> • pH between 6.5 to 8.5 • Dissolved oxygen 4 mg/l or more. • Free Ammonia (as N) 1.2 mg/l or less • pH 9 between 6.0 to 8.5.
Irrigation, Industrial Cooling, Controlled Waste disposal.	E	<ul style="list-style-type: none"> • Electrical Conductivity at 25°C micro mhos/cm Max. 2250. • Sodium Absorption ratio Max. 26 • Boron Max.2 mg/l.
	Below -E	Not Meeting A, B, C, D & E Criteria.

GOVERNMENT OF ANDHRA PRADESH
MUNICIPAL ADMINISTRATION & URBAN DEVELOPMENT (UBS) DEPARTMENT

Letter No.1282446/UBS/2020

Dated: 30-11-2021

From
The Special Chief Secretary to Government,
MA & UD Department,
A.P. Secretariat,
Velagapudi,
Guntur District

To
The Secretary,
Ministry of Jal Sakti,
MoHUA.,
Government of India,
New Delhi.(w.e.)

Sir,

Sub:-MA & UD Department - National Green Tribunal – Orders of the
National Green Tribunal Principal Bench, New Delhi in OA
No.673/2018 - Monthly Progress Report for the month of
October, 2021 -Furnished – Regarding.

Ref:-Orders of the National Green Tribunal Principal Bench, New Delhi
in OA No.673/2018, dated. 24.09.2020.

*** **

In compliance to the directions of the Hon'ble National Green Tribunal
Principal Bench, New Delhi in the reference cited, I am herewith enclose the Monthly
Progress Report in the prescribed format for the month of October, 2021 for taking
further necessary action.

Yours faithfully,

G. Sudha Rayo

For SPECIAL CHIEF SECRETARY TO GOVERNMENT



National Mission for Clean Ganga
Format for submission of Monthly Progress Report for the
month of OCTOBER, 2021 in the NGT Matter OA No. 673 of
2018 (in compliance to NGT order dated 24.09.2020)

For the State of Andhra Pradesh

Overall status of the State:

I. Total Urban Population : 1.5 Crore

II. Estimated Sewage Generation (MLD) : 1503.20 MLD (120 ULB's)

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD) : 516.65 MLD (44No's)
- Present Gap in Treatment Capacity in MLD : 986.55 MLD
- Capacity of under construction STP's : 533.47 MLD
- STPs Under Tender : 35.60 MLD
(Kurnool Municipal Corporation 3 STP's [35.0+0.4+0.2] MLD)
- No. of Operational STPs : 44 Nos
- No. of Non-complying STPs : Nil

III (A) Details of each existing STP in the State:

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Utilization capacity in MLD	Operational Status of STP	Compliance Status of STP
1	GVMC	Old town	May'2019	38.00	35.23	Operational	Complied
2		Appughar	26.09.2010	25.00	21.42	Operational	Complied
3		Mudasarlova	April'2008	13.00	9.65	Operational	Complied
4		Narava	Aug-01	54.00	22.36	Operational	Complied
5		Anakapalle	April'2018	15.00	7.55	Operational	Complied
6		Madinabagh		2.00	1.02	Operational	Complied
7		Yathapalem Colonies	April'2008	2.50	1.01	Operational	Complied
8		Gajuwaka	April'2008	0.50	0.23	Operational	Complied
9		Karnavanipalem	Dec' 2019	5.00	0.0	Operational	Complied
10		Mantripalem	April' 2008	1.00	0.31	Operational	Complied
11		Aganampudi	Dec' 2015	6.00	0.0	Operational	Complied
12		RathiCheruvu	Sep' 2019	2.00	0.65	Operational	Complied
13		Kommadi / Madhurawada	Aug' 2018	4.00	2.10	Operational	Complied
14		Bakkannapalem	Aug' 2011	1.00	0.36	Operational	Complied
15		Marikavalasa	Dec' 2012	2.00	1.15	Operational	Complied
16		Vambay Colony	Aug' 2011	3.00	1.38	Operational	Complied
17		YSR Nagar	Aug' 2011	2.00	1.30	Operational	Complied
18		Boyapalem	Aug' 2011	1.00	0.39	Operational	Complied
			Sub Total	177.00	106.12		

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Utilization capacity in MLD	Operational Status of STP	Compliance Status of STP
19	Rajamahendravaram	Hukumpeta	03.01.2009	30.00	30.0	Operational	Complied
20	Vijayawada	Ajith Singh Nagar-1	31.05.2011	40.00	39.52	Operational	Complied
21		Ajith Singh Nagar-2	31.05.2012	20.00	20.0	Operational	Complied
22		Ramalingeswar Nagar-1	30.06.2012	20.00	19.74	Operational	Complied
23		Ramalingeswar Nagar-2	20.10.2006	10.00	9.80	Operational	Complied
24		Autonagar -1	31.03.2005	10.00	9.70	Operational	Complied
25		Autonagar -2	31.12.2018	10.00	9.80	Operational	Complied
26		Jakkampudi	31.07.2017	20.00	13.50	Operational	Complied
		Sub Total		130.00	122.06		Complied
27	Tirupathi	Thukivakam	30.09.2018	50.00	33.0	Operational	Complied
28	Kadapa	Nanapally	02.08.2012	20.00	10.0	Partly Operational	Complied
29	Pulivendula	Rotarypuram	25.01.2009	6.50	2.50	Partly Operational	Complied
30	Tadipatri	Gannevaripalle	10.10.2010	3.50	2.50	Operational	Complied
31		Gannevaripalle	10.10.2010	8.00	4.0	Operational	Complied
		Sub Total		11.50	6.50		Complied
32	Puttaparthi	1.Sai Nagar	20.7.2001	0.50	0.50	Operational	Complied
33		2. Gokulam	20.7.2001	0.50	0.0	Under Rehabilitation	Complied
34		3. Prasanthi Gram	20.7.2001	0.50	0.0	Under Rehabilitation	Complied
		Sub Total		1.50	0.50		Complied
35	Narsaraopeta	CPT Road	02.02.2018	15.55	8.50	Operational	Complied
36	Nellore	Janardhan Reddy Colony		5.00	5.0	Operational	Complied
37		Allepuram		55.00	55.0		
38		Drivers Colony		11.00	0.0		
		Sub Total		71.00	60.00		Complied
39	Kurnool	Jammichettu	12.03.2019	0.80	0.80	Operational	Complied
40		SankalBagh	12.03.2019	0.80	0.80	Operational	Complied
41		Tungabhadra PumpHouse	10.03.2018	0.80	0.80	Operational	Complied
		Sub Total		2.40	2.40		Complied
42	Tadepalli	Mahanadu-1	10.12.2018	0.20	0.20	Operational	Complied
43		Mahanadu-2	15.12.2018	0.20	0.20	Operational	Complied
44	Kondapalli	Security Colony		0.80	0.80	Operational	Complied
		Grand Total		516.65	387.77		

III (B) Details of Under Construction STPs in the State

S.No.	Location	Scheme Name	No. of STP	Capacity of the plant in MLD	Physical Progress in %	Completion Timeline
1	Yemmiganur	UIDSSMT	1	19.80	96%	December 2021
2	Srikakulam	AMRUT	1	10.00	45%	December 2021
3	Vizianagaram	AMRUT	1	5.00	55%	December 2021
4	GVMC	Smart City (Package-I)	1	54.00	90%	December 2021
5	Kakinada	AMRUT	1	5.00	39%	December 2021
6	Rajamahendravaram	AMRUT	1	5.00	16%	March 2022
7	Bhimavaram	AMRUT	1	5.00	42%	December 2021
8	Tadepalligudem	AMRUT	1	5.00	0%	Retenders are in Progress and work is Expected to be completed by December 2022
9	Eluru	AMRUT	1	5.00	43%	March 2022
10	Machilipatnam	AMRUT	1	5.00	48%	December 2021
11	Gudivada	AMRUT	1	5.00	42%	December 2021
12	Vijayawada	JNNURM	1	20.00	83%	December 2021
13	Tenali	AMRUT	1	10.00	35%	March 2022
		14 FC	1	2.00	30%	December 2021
14	Ongole	AMRUT	1	15.00	61%	December 2021
15	Chilakaluripeta	AMRUT	1	5.00	21%	March 2022
16	Kavali	AMRUT	1	15.00	77%	December 2021
17	Nellore	HUDCO	1	20.00	85%	December 2021
			1	14.00	0%	Due to existing site dispute new site to be identified. Upon finalization of the new site work will be completed in one year time.
18	Tirupati	Smart City	1	25.00	25%	March 2022
19	Srikalahasti	AMRUT	1	7.00	27%	March 2022
20	Madanapalle	AMRUT	1	5.00	20%	March 2022
21	Kadapa	AMRUT	1	20.00	0%	Re -Tenders are invited and Upon finalization of the new site work will be completed in one year time.
22	Anantapuramu	AMRUT	1	10.00	0%	Re Tenders area in process and work is

						expected to be completed by December 2022.
23	Dharmavaram	AMRUT	1	15.00	0%	Re Tenders area in process and work is expected to be completed by December 2022.
24	Guntakal	AMRUT	1	8.00	0%	December 2022
25	Kurnool	AMRUT	1	2.00	50%	December 2021
		AMRUT	1	10.00	12%	March 2022
26	Nandyal	AMRUT	1	10.00	18%	March 2022
27	Adoni	AMRUT	1	5.00	24%	March 2022
28	Guntur	OTSFA	1	10.00	52%	Jun 2022
			1	20.00	52%	Jun 2022
			1	42.00	51%	Jun 2022
			1	28.00	51%	Jun 2022
			1	23.00	0%	Due to existing site dispute new site to be identified. Upon finalization of the new site work will be completed in one year time.
29	Pulivendula	PLAN	1	10.00	37%	December 2022
			1	1.50	32%	December 2022
			7 (0.5MLD x 7nos)	3.50	0%	December 2022
			1	0.02	0%	December 2022
			1	0.07	0%	December 2022
			1	0.08	0%	December 2022
			1	0.10	0%	December 2022
30	Rayachoti	PLAN	6	22.40	0 %	August 2023
31	Kondapalli	CSR Funds	1	2.00	12 %	July 2023
32	Kanigiri	AIIB	1	6.00	0 %	August 2023
33	Sullurpet	AIIB	3	8.00	0 %	August 2023
34	Allagadda	AIIB	1	5.00	0 %	August 2023
35	Nandikotkur	AIIB	1	5.00	0 %	August 2023
36	Madakasira	AIIB	1	5.00	0 %	August 2023
Grand Total			62	533.47		

III (C) Details of Proposed STPs in the State:

Phase	Description	No. of ULBs	Proposed Total STP capacities (MLD)	Cost of Total STPs (crores)
I	Municipal Corporations	16	539.00	1617.00
II	ULBs having population above 1 Lakhs	18	221.00	663.00
III	ULBs having Population ranging between 75,000 to 1 Lakh	8	43.00	129.00
IV	ULBs having Population less than 75,000	78	499.00	1497.00
V	Taxes and others etc @20%			781.20
	Total		1302.00	4687.20

III D) STATUS OF STPs UNDER RIVER STRETCHES:

- Total Estimated Sewage Generation (in MLD) 2020 :302.00 MLD
- Existing no. of STP with Treatment Capacity (in MLD) :162.40 MLD
- Present Gap in Treatment Capacity (in MLD) : 139.60 MLD
- Capacity of under Construction STPs (in MLD) : 57.00 MLD
- Gap after completion of ongoing Projects : 82.60 MLD

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-IV RIVERS						
1.	Tungabhadra	Kurnool	2.40 MLD	10 MLD	12 %	Rs.79.78 crs accorded administrative sanction for construction of STPs with the capacity of 35.60MLD which is in tender process.
				2 MLD	50%	
2	Kundu	Nandyal	0.00	10 MLD	18%	Comprehensive DPR on UGD scheme is prepared for Rs.85.00 Cr with STPs capacity of 26 (21 + 5) MLD to cater the needs of 2035 year. DPR submitted to the Govt. for according Administrative Sanction.

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-V RIVERS						
1.	Nagavali	Srikakulam	0.00	10 MLD	45%	Comprehensive proposal for providing UGD scheme for 2035 is prepared for an amount of Rs.190.36 Cr with an additional STP capacity of 12 MLD.
2.	Godavari	Rajamahendravaram	30.00	5 MLD	16%	DPR on Comprehensive UGD scheme prepared with additional STP's of capacity 72.37 MLD for an amount of Rs.404.00 Cr. RMC has attended the remarks and resubmitted the proposals. Now it is proposed to take up the works with an estimated cost of Rs.107.00 crores in the first year.
3.	Krishna	Vijayawada	130.00	20 MLD	83%	DPR is prepared for Rs.246.38 Cr for providing Comprehensive UGD scheme to meet the 2035 demand including up-gradation of 2 STPs of 30.00 MLD capacity.

IV. Details of Industrial Pollution:

- No. of industries in the State: 9946 No's
- No. of water polluting industries in the State: 1437 No's
- Quantity of effluent generated from the industries in MLD: 4541.86 MLD

Effluent Break-Up Details:

- Once through Cooling water: 3826.13 MLD
- Trade effluents: 412.07 MLD
- cooling tower/Boiler blow down: 254.12 MLD
- Domestic waste water: 49.54 MLD

From the total waste water generation from the industries, major portion is once through cooling water (about 85%) and temperature to be maintained for discharge of once through cooling system is not more than 5⁰C temperature of

intake water.

- ✓ From the Cooling tower/Boiler blow down (about 5.6%).
- ✓ The remaining about 9.4% is generated from Trade effluent & Domestic Discharges.
- ✓ APPCB is not permitting any industry to discharge industrial / trade effluents into the rivers.
- Number of industrial units having ETPs: 1093 No's
- Number of industrial units connected to CETP: 344 No's
 - i. Existing: 1093 no's ETPs
 - ii. Under construction: Nil
 - iii. Proposed: Nil
- **Compliance status of the ETPs:**
 - ✓ APPCB is regularly monitoring the compliance status of ETPs and action is being initiated for non-compliance industries.
- Number and total capacity of CETPs (details of existing/ under construction / proposed)
 - i. Existing: 8 No's with total capacity of 21.5 MLD
 - ii. Proposed: 3 no's
 - 1.5 MLD at Atchuthapuram SEZ, Visakhapatnam
 - 1.5 MLD at Nakkapalli, Visakhapatnam.
 - 1.2 MLD at Chittoor District

• Status of compliance and operation of the CETPs

S. No.	Name and Address of the CETP & contact person	Design capacity (in MLD)	Current Operating capacity (in MLD)	Type and No. of member units	Compliance status
1.	Brandix India Apparel City Private Limited, APSEZ, Atchutapuram Pudimadaka Road, Visakhapatnam.	5	*4	Textile park- 14 units	Complied Complied * APPCB permitted to establish 20 MLD capacity of CETP for operation full capacity industrial park. At present 5 MLD CETP was constructed as the effluent generation is 4 MLD.
2.	RamkyPharma City (India) Ltd, JN PharmaCity, Parawada Mandal, Visakhapatnam.	9.53	5.5	Pharmaceutical & Bulk drugs-92 units	Complied
3.	Kondapally Envirotech Pvt. Ltd., (KEPL), IDA, Kondapalli(V), Ibrahimpatnam (M), Krishna District.	0.2	0.0	Pharmaceutical & Bulk drugs-14 units	*Under up-gradation. Works will be completed by end of December 2021 and effluent sent to CETP, JNPC for further treatment until December 2021
4.	Vijayawada Auto Cluster Development Company, Industrial Estate, Auto Nagar, Vijayawada.	0.2	0.04	Food beverages, Herbal pharma, Oil solvents & lubricants - 35 units.	Complied
5.	Machilipatnam Imitation Jewellery Park Pvt. Ltd., Jewellery Park, Pothealli, Machilipatnam.	0.07	0.002	Electro Plating – 48 Units	Complied
6.	Nagari Dyeing Owners Association, Chinthalapatteda (V), Nagari (M), Chittoor District.	4	1.0	Manual Dyeing units - 105 units	Complied
7.	Atchuthapuram Effluent Treatment Plant, Atchutapuram Visakhapatnam.	1.5	0.5	Pharmaceutical & Bulk drugs-36 units	Complied
8.	M/s Andhra Pradesh Industrial Infrastructure Corporation Limited (APIIC), 1.0 MLD CEPT, MPSEZ, Menakur (V), Naidu pet (M), SPSR Nellore District.	1.0	Under Trail run	Pharmaceutical – 7 Units	Compliance will be verified after starting operations
	Total	21.5	11.042		

V. Solid Waste Management:

- Total number of Urban Local Bodies: **124** and their Population: **1.5** Crore
- Current Municipal Solid Waste Generation: **6898** TPD. for 124 ULBs (14 Newly Constituted ULBs – These ULBs have not yet developed urban Dynamics).
- Power generation from 15MW Waste to Energy project at Guntur has started and the plant is synchronized with the grid. Another 15MW Waste to Energy project at Visakhapatnam is under progress and expected to commission by January 2022.
- 32 Wet Waste Projects covering 35 ULBs treating 1435 TPD with an installed capacity of 1625 TPD are existing.
- 17 Wet Waste Projects covering 17 ULBs are in progress with an installed capacity of 397 TPD.
- Tenders were called for selection of agencies to establish ISWM projects in 72 ULBs under PPP mode. Evaluation completed and file circulated to Government of Andhra Pradesh for approval.
- 3 Construction and Demolition waste processing plants in Greater Visakhapatnam Municipal Corporation, Vijayawada Municipal Corporation and Tirupati Municipal Corporation treating 100 TPD with an installed capacity of 200 TPD are existing.
- 114 Dumpsites with an area of 1000 acres are existing in the state. Out of which remediation of 4 dumpsites in 4 ULBs 2 ULBs (Vijayawada & Tirupati) are completed 2 ULBs (Visakhapatnam, and Tanuku) are in under progress.
- Quantification of Dumpsites in ULBs with 1 Lakh above Population is completed and the ULBs were Instructed to take up the tender process for remediation of dumpsites. 5 ULBs have invited tenders for dumpsite remediation.
- 79 Material Recovery facilities covering 79 ULBs treating 810 TPD with an installed capacity of 1000 TPD Existing.
- 45 Material Recovery facilities covering 45 ULBs are in progress with an installed capacity of 500 TPD.
- The Source Segregation in the State is 83.00% and capacity utilization of the treatment units is the same percentage, Ward Secretariats and volunteer system established and unique in the State are ensuring 99 % door to door collection.
- Total no. of wards: 3946 No. of wards having door to door collection service: 3906. No. of wards practicing segregation at source: 3246
- No Dumpsites of legacy waste are within 1km buffer of both sides of the rivers in the State.

Status of ULB wise Management of Solid Waste:

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
1	Amudalavalasa	19	Existing WtC	10	85%	Vizag WtE		Established	4	85%
2	Ichchapuram	18	Existing WtC	10	85%	Feasibility Study under progress		Established	2	85%
3	Palasa-kasibugga	28	Existing WtC	15	80%	Feasibility Study under progress		In Progress		
4	Rajam	21	Existing WtC	12	80%	Vizag WtE		Established	4	85%
5	Bobbili	29	Existing WtC	16	90%	Vizag WtE		Established	8	85%
6	Salur	24	Existing WtC	13	90%	Vizag WtE		Established	6	90%
7	GVMC	918	Existing WtC	505	85%	Vizag WtE		Established	300	85%
8	Narsipatnam	30	Existing WtC	17	80%	Vizag WtE		Established	8	85%
9	Yellamanchali	23	Existing WtC	13	80%	Vizag WtE		Established	4	85%
10	Adoni	81	Existing WtCNG	45	80%	Connected to Cement Factories	3	Established	20	85%
11	Nuzivid	29	Existing WtC	16	80%	Guntur WtE		In Progress		
12	Thiruvuru	17	Existing WtCNG	9	80%	Guntur WtE		Established	2	85%
13	Tenali	80	Existing WtC	44	90%	Guntur WtE		Established	20	90%
14	Sattenpalle	28	WtCNG - Pidugurala	15	85%	Guntur WtE		Established	6	85%
15	Narsaraopet	57	WtCNG - Pidugurala	31	85%	Guntur WtE		Established	16	85%
16	Piduguralla	31	Existing WtCNG	17	85%	Guntur WtE		In Progress		
17	Allagadda	20	Existing WtC	11	85%	Connected to Cement Factories	1	Established	4	85%
18	Rayadurgam	30	Existing WtC	17	85%	RDF inprogress		Established	6	85%
19	Puttaparty	15	Existing WtC	8	85%	RDF inprogress		Established	2	85%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
20	Yemmiganur	46	WtCNG - Adoni	25	85%	RDF inprogress		Established	10	85%
21	Anantapur	131	WtCNG Planned	0		Connected to Cement Factories	8	Established	35	90%
22	Atmakur K	22	WtC Awarded	0		Connected to Cement Factories	1	Established	4	90%
23	Badvel	35	WtC Planned	0		Connected to Cement Factories	2	In Progress		
24	Dhone	29	WtC Planned	0		Connected to Cement Factories	2	Established	6	90%
25	Markapur	35	Existing WtC	19	80%	Feasibility Study under progress		Established	8	85%
26	Giddalur	19	Existing WtC	10	85%	RDF inprogress		Established	4	85%
27	Kanigiri	22	Existing WtC	12	85%	Feasibility Study under progress		Established	4	85%
28	Chirala	42	Existing WtC	23	90%	Guntur WtE		Established	9	90%
29	Gudivada	58	WtCNG awarded	0		RDF Connected / Guntur WtE	3	Established	14	90%
30	Palamaneru	25	Existing WtC	14	85%	Feasibility Study under progress		In Progress		
31	Punganur	27	Existing WtC	15	80%	Feasibility Study under progress		Established	6	85%
32	Madanpalle	67	Existing WtCNG	37	85%	RDF inprogress		In Progress		
33	Sullurpet	22	Existing WtC	12	80%	Feasibility Study under progress		Established	4	85%
34	Srikakulam	65	WtCNG Planned	0		Vizag WtE		Established	16	90%
35	Palakonda	16	WtC Awarded	0		Vizag WtE		In Progress		
36	Vizianagaram	119	WtCNG Planned	0		Vizag WtE		Established	30	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
37	Parvathipuram	26	WtC Awarded	0		Vizag WtE		In Progress		
38	Nellimarla	14	WtC Planned	0		Vizag WtE		Established	2	90%
39	Gudur N	36	WtC Planned	0		Connected to Cement Factories	2	In Progress		
40	Guntakal	62	WtC Planned	0		Connected to Cement Factories	2	Established	14	90%
41	Jaggaiahpet	26	WtCNG awarded	0		RDF Connected / Guntur WtE	1	In Progress		
42	Jammalamadugu	22	Existing WtC	12	80%	Connected to Cement Factories	1	In Progress		
43	Pedana	16	WtC Awarded	0		Guntur WtE		In Progress		
44	Vuyyuru	20	WtC Awarded	0		Guntur WtE		In Progress		
45	Guntur	363	WtCNG Planned	0		Guntur WtE		Established	80	90%
46	Mangalagiri - Tadepalle	70	WtC Planned	0		Guntur WtE		Established	16	90%
47	Ponnur	29	WtC Planned	0		Guntur WtE		Established	6	90%
48	Chilakaluripet	49	WtC Planned	0		Guntur WtE		Established	12	90%
49	Bapatla	34	WtCNG awarded	0		Guntur WtE		Established	8	90%
50	Repalle	25	WtC Awarded	0		Guntur WtE		Established	4	90%
51	Vinukonda	30	WtCNG awarded	0		Guntur WtE		InProgress		
52	Macherla	28	Existing WtC	0		Feasibility Study under progress		Established	6	90%
53	Kadapa	167	WtCNG Planned	0		Connected to Cement Factories	6	Established	40	90%
54	Dharmavaram	62	WtC Planned	0		RDF in progress		In Progress		
55	Kadiri	43	WtC Awarded	0		Connected to Cement Factories	1	Established	8	90%
56	Gooty	24	WtC Planned	0		RDF in progress		Established	4	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
57	Pamidi	14	WtC Planned	0		RDF inprogress		In Progress		
58	Hindupur	74	WtC Awarded	0		RDF inprogress		In Progress		
59	Kurnool	224	WtCNG Planned	0		Connected to Cement Factories	2	In Progress		
60	Kalyandurgam	21	WtC Awarded	0		RDF inprogress		Established	2	90%
61	Madakasira	12	WtC Awarded	0		RDF inprogress		Established	2	90%
62	Machilipatnam	89	WtC Awarded	0		RDF Connected / Guntur WtE	3	Established	20	90%
63	Mydukur	22	WtC Planned	0		Connected to Cement Factories	1	In Progress		
64	Nandigama	22	WtCNG awarded	0		RDF Connected / Guntur WtE	1	In Progress		
65	Nandikotkur	23	WtC Planned	0		Connected to Cement Factories	1	Established	4	90%
66	Gudur K	14	WtC Planned	0		RDF in progress		In Progress		
67	Nandyal	98	WtCNG Planned	0		Connected to Cement Factories	3	In Progress		
68	Proddutur	79	WtCNG Planned	0		Connected to Cement Factories	2	In Progress		
69	Pulivendula	32	Existing WtC	18	85%	Connected to Cement Factories	2	Established	6	85%
70	Rajahmundry	168	WtCNG Planned	0		Connected to Cement Factories	3	Established	40	90%
71	Rajampeta	23	WtC Planned	0		Connected to Cement Factories	1	In Progress		
72	Rayachoti	44	WtC Planned	0		Connected to Cement Factories	2	Established	8	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
73	Tadipatri	53	Existing WtC	29	90%	Connected to Cement Factories	2	Established	10	90%
74	Tirupati	208	Existing WtCNG	114	85%	Connected to Cement Factories	4	Established	45	85%
75	Ongole	123	WtCNG awarded	0		Guntur WtE		Established	30	90%
76	Chimakurthy	17	WtC Awarded	0		Guntur WtE		In Progress		
77	Addanki	20	WtC Awarded	0		Guntur WtE		Established	4	90%
78	Kandukur	28	WtC Awarded	0		Feasibility Study under progress		Established	6	90%
79	Kakinada	159	WtCNG Planned	0		Feasibility Study under progress		Established	35	90%
80	Vijayawada	507	Existing WtC	279	85%	RDF Connected / Guntur WtE	6	Established	150	85%
81	Gollaprolu	11	WtC Planned	0		Feasibility Study under progress		In Progress		
82	Pithapuram	25	WtC Planned	0		Feasibility Study under progress		Established	3	90%
83	Peddapuram	24	WtC Planned	0		Feasibility Study under progress		Established	3	90%
84	Samalkota	28	WtC Planned	0		Feasibility Study under progress		Established	4	90%
85	Yeleswaram	16	WtC Planned	0		Feasibility Study under progress		Established	2	90%
86	Ramachandrapuram	21	WtC Planned	0		Feasibility Study under progress		Established	2	90%
88	Mandapeta	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
88	Tuni	26	WtC Awarded	0		Feasibility Study		Established	3	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
						under progress				
89	Mummidivaram	12	WtC Awarded	0		Feasibility Study under progress		Established	2	90%
90	Amalapuram	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%
91	Eluru	106	WtCNG Planned	0		Feasibility Study under progress		Established	22	90%
92	Tadepalligudem	51	WtC Planned	0		Feasibility Study under progress		Established	8	90%
93	Tanuku	44	WtC Planned	0		Feasibility Study under progress		In Progress		
94	Palakollu	33	WtC Planned	0		Feasibility Study under progress		In Progress		
95	Narsapuram	29	WtC Planned	0		Feasibility Study under progress		Established	4	90%
96	Bhimavaram	69	WtC Planned	0		Feasibility Study under progress		Established	12	90%
97	Nidadavole	21	WtC Planned	0		Feasibility Study under progress		In Progress		
98	Kovvur	19	WtC Planned	0		Feasibility Study under progress		In Progress		
99	JangareddyGudem	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
100	Chittoor	92	WtCNG Planned	0		Feasibility Study under progress		Established	18	90%
101	SriKalahasti	39	WtC Planned	0		Feasibility Study under progress		Established	8	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
102	Nagari	30	WtC Planned	0		Feasibility Study under progress		In Progress		
103	Puttur	26	WtC Planned	0		Feasibility Study under progress		In Progress		
104	Nellore	300	WtCNG Planned	0		Feasibility Study under progress		In Progress		
105	Venkatagiri	25	WtC Planned	0		Feasibility Study under progress		In Progress		
106	Yerraguntla	17	WtC Planned	0		Connected to Cement Factories	1	In Progress		
107	Naidupet	22	Tenders Evaluation in Process	0		Feasibility Study under progress		Established	4	90%
108	Atmakur N	15	Tenders Evaluation in Process	0		Feasibility Study under progress		In Progress		
109	Kavali	51	Tenders Evaluation in Process	0		Feasibility Study under progress		Established	10	90%
110	Akiveedu	11	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
111	Kondapalli	21	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
112	Dachepali	11	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
113	Gurazala	9	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
114	Darsi	12	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
115	BuchireddyPale m	12	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
116	Penukonda	10	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
117	Bethamcharla	14	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
118	Kamlapuram	7	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
119	Kupam	15	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
120	Y.S.R. - Tadegadapa	23	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
121	Chuintalapudi	4	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
122	Podili	6	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
123	Alluru	9	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
124	B.KothaKota	6	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
Total		6898								

VI. Bio-medical Waste Management:

- Total Bio-medical generation: 19.894Tones/ day
- No. of Hospitals and Health Care Facilities: 11,268 Nos.

Status of Treatment Facility/ CBMWTF	:	Presently, there are 12 Nos. of Common Bio-medical Waste Treatment Facilities (CBMWTFs) in covering total 13 Districts in Andhra Pradesh for treatment and disposal of bio-medical waste as per the BMW Management Rules 2016.
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VII. Hazardous Waste Management:

- Total Hazardous Waste generation about: 6,48,308.380TPAas per hazardous waste inventory, 2020-21.
- No of industries generating Hazardous Waste:2708 Nos as per Hazardous Waste inventory, 2020 -21.
- **For the month of October, 2021, the Quantity of Hazardous Waste Treated & Disposed is as follows:**
 - i) Utilizable waste is 12217.789TPM (suitable to use as raw material or as alternative fuel viz. Co-processing in Cement Plants so as to conserve the resources),
 - ii) Recyclable waste is 64.006 TPM (suitable for recycling /recovery of material viz. oil reclamation units, lead and zinc recovery units).
 - iii) Incinerable waste is 350 TPM (not suitable for any recycling / reuse and having high calorific value i.e. > 2500 K cal/kg) and
 - iv) Land fillable waste is 16239.943TPM (not suitable for any recycling / reuse and having low calorific value i.e. < 2500 K cal/kg) is reaching and treated at the TSDFs in Visakhapatnam and Nellore.

- **Details of on-going or proposed TSDF:**

Two TSDF are existing in the State of Andhra Pradesh

- ✓ M/s Coastal Waste Management Project Unit-1, Parwada, Visakhapatnam.
- ✓ M/s Coastal Waste Management Project Unit-2 a division of Mumbai Waste Management Limited, S.P.S.R. Nellore District.
- ✓

VIII. Plastic Waste Management:

Total plastic waste generation	39,626 TPA (As per Annual Report for the F.Y. 2020-21).
Treatment / Measures adopted for reduction or management of plastic waste	<ul style="list-style-type: none">• The recyclable plastic waste generated is being sent to recycling units and the non-recyclable plastic waste is being sent to cement plants and utilizing for road construction in some ULBs. 24 Nos of recyclers registered with APPCB. Total recycling capacity is 26732 TPA.• 29 ULBs tied up with nearby Cement Plants for co-incineration of non- recyclable plastic waste and 5123 MTs of Non-recyclable plastic waste was sent to cement plants for the F.Y 2020-21.• The MA&UD and PR&RD Dept., informed that they have been conducting strict vigilance and surprise visits on those who store or use or sell or dispose plastic with less than 50 microns' thickness, for which 721 Task force teams were constituted for inspections and raids to control plastic sale and usage of less than 50 microns' thickness carry bags / films in the ULBs of A.P. About 240 tons of plastic carry bags were seized and Rs. 169 lakhs towards fine was collected.

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

Details of Faecal Sludge Treatment Plants:

No. of Completed FSTPs	:	2 (30 KLD)
No. of In-progress FSTPs	:	64 (950 KLD)
No. of FSTPs to be retendered	:	11 (175 KLD)
No. of FSTPs DPRs to be prepared	:	10

IX(A): Details of Completed FSTPs:

S.No.	Name of ULB	Capacity(in KLD)	Operational Status of FSTP
1	Narsapur	15	Operational
2	Rajam	15	Operational

IX(B): Details of In-Progress FSTPs:

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
1	Dhone	20	75 % of Work Completed , Oct- 21
2	Gooty	15	Mar-22
3	Jammalamadugu	15	Mar-22
4	Kadiri	25	Mar-22
5	Kalyanadurgam	10	Mar-22
6	Madakasira	5	Mar-22
7	Paamidi	10	Mar-22
8	Pulivendula	20	Mar-22
9	Puttaparthi	10	Mar-22
10	Rayachoti	25	Mar-22
11	Rayadurg	20	Mar-22
12	Allagadda	10	Mar-22
13	Atmakur (K)	15	Mar-22
14	Badvel	25	Mar-22
15	Gudur (K)	5	Mar-22
16	Mydukuru	15	Mar-22
17	Nandikotkur	15	Mar-22
18	Palamaneru	15	Ready for inauguration
19	Punganur	15	Mar-22
20	Rajampeta	15	Mar-22
21	Yerraguntla	10	Mar-22
22	Atmakur (N)	10	Mar-22
23	Giddalur	10	Mar-22
24	Gudur (N)	20	Mar-22
25	Kandukur	20	Mar-22
26	Kanigiri	15	Mar-22
27	Markapur	20	Sep-21
28	Nagari	20	Mar-22
29	Naidupet	15	Mar-22
30	Puttur	15	Mar-22
31	Sullurpeta	15	Mar-22
32	Venkatagiri	15	Mar-22
33	Addanki	10	Mar-22
34	Bapatla	25	40 % Wok Completed , Dec-21
35	Chimakurthy	10	Mar-22
36	Chirala	25	40 % Wok Completed , Dec-21
37	Macherla	15	Mar-22
38	Mangalagiri	25	Mar-22
39	Piduguralla	15	Mar-22

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
40	Ponnur	15	40 % Wok Completed , Dec-21
41	Repalle	15	Mar-22
42	Sattenapalli	15	Mar-22
43	Vinukonda	15	Ready for inauguration
44	Amalapuram	15	Mar-22
45	Gollaprolu	5	Mar-22
46	Kovvur	10	Mar-22
47	Mandapeta	15	Mar-22
48	Mummidivaram	10	Mar-22
49	Peddapuram	15	Mar-22
50	Pithapuram	15	Mar-22
51	Ramachandrapuram	15	Mar-22
52	Samalkota	15	Mar-22
53	Tuni	15	Mar-22
54	Yeleshwaram	10	Mar-22
55	Amudalavalasa	10	Mar-22
56	Bobbili	15	Ready for inauguration
57	Ichapuram	10	Mar-22
58	Narsipatnam	20	Mar-22
59	Nellimarla	10	Mar-22
60	Palakonda	10	Mar-22
61	Palasa-Kasibugga	15	Mar-22
62	Parvathipuram	15	Mar-22
63	Salur	15	Mar-22
64	Yelamanchili	15	Mar-22
Total		950	

IX (C) Details of FSTPs to be Retendered:

S.No	Name of the ULB	Capacity of Plant (KLD)
1	Jangareddigudem	15
2	Nidadavolu	15
3	Palacole	20
4	Pedana	10
5	Tadepalli	20
6	Tanuku	25
7	Vuyyuru	15
8	Jaggaihpeta	15
9	Nandigama	15
10	Nuzividu	15
11	Tiruvuru	10

IX(D) Details of FSTPs DPRs to be Prepared:

S.No	Name of ULB	Status of the project
1	Akiveedu	DPR to be prepared - Newly Constituted ULB
2	Kondapalli	DPR to be prepared - Newly Constituted ULB
3	Dachepali	DPR to be prepared - Newly Constituted ULB
4	Gurazala	DPR to be prepared - Newly Constituted ULB
5	Darsi	DPR to be prepared - Newly Constituted ULB
6	BuchireddyPalem	DPR to be prepared - Newly Constituted ULB
7	Penukonda	DPR to be prepared - Newly Constituted ULB
8	Bethamcharla	DPR to be prepared - Newly Constituted ULB
9	Kamlapuram	DPR to be prepared - Newly Constituted ULB
10	Kupam	DPR to be prepared - Newly Constituted ULB

- X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment:
- A total of 32 No's of outfall points of the major disposal drains have been identified which are contributing to River Pollution. All the above 32 No's of outfall points are provided with Meshes/Screens to prevent solid waste from falling in to the Rivers.
- XI. **Details of Nodal Officer appointed by Chief Secretary in the State/UT:**
Commissioner & Director of Municipal Administration Appointment as a Nodal Officer for Polluted River stretches as per G.O.RT. No: 103 EFS&T Department Dated: 25-11-2020.
- XII. Details of meetings carried under the Chairmanship of Chief Secretary in the State/UT:
- XIII. **Latest water quality of polluted river, its tributaries, drains with flow details:**
- APPCB has been monitoring the 5 polluted river stretches at 27 locations on monthly basis and the data is being uploaded in RRC Website <https://rrc.ap.gov.in/Views/Monitoring.aspx> every month. **The monitoring of water quality data for the month of October, 2021 is enclosed.**
 - **As per the analysis of samples collected at 27 locations in the month of October, 2021 the B.O.D value is less than 3.0 mg/lit. (Details enclosed)**
- XIV. Ground water regulation:
- XV. Good irrigation practices being adopted by the State:
- XVI. Rain Water Harvesting:
- XVII. Demarcation of Floodplain and removal of illegal encroachments:

- XVIII.** Maintaining minimum e-flow of river:
- XIX.** Plantation activities along the rivers:
- XX.** Development of biodiversity park:
- XXI.** Reuse of Treated Water:
- XXII.** Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:
- XXIII.** Status of Preparation of Action Plan by the 13 Coastal States:
- XXIV.** Regulation of Mining Activities in the State/UT:
- XXV.** Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring.

Water quality status of polluted river stretches in Andhra Pradesh - 2021**I. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 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.

Parameter	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Standard		
														Class A	Class B	Class C
pH	4367	7.44	7.61	7.84	8.23	---	----	7.48	7.59	7.68	7.56			6.0 - 8.5	6.0 - 9.0	
	4359	7.50	6.85	7.07	6.96	----	----	8.24	7.71	7.82	7.75					
	0014	7.52	7.52	7.53	7.22	7.76	7.61	7.40	7.72	7.62	7.55					
	1218	7.36	7.75	7.08	7.31	7.87	7.67	7.42	7.47	7.57	7.48					
	2370	7.69	7.30	6.84	7.92	7.02	7.44	6.60	7.81	7.80	7.39					
	2371	7.05	7.19	6.97	7.90	7.78	7.25	6.75	7.60	7.62	7.41					
	1219	7.25	7.21	6.83	7.59	7.02	7.34	6.51	7.53	7.66	6.82					
	4365	7.22	7.42	7.22	7.5	7.38	7.83	7.27	7.46	7.66	7.47					
	4366	7.33	7.71	7.30	7.73	7.62	7.69	7.30	7.41	7.79	7.37					
	4358	7.57	6.95	7.52	7.49	7.38	7.75	7.57	7.58	7.36	7.57					
DO	4367	5.6	5.4	6.2	6.9	---	----	6.3	6.2	6.5	7.0			6.0	5.0	4.0
	4359	8.5	8.5	8.2	8.0	---	----	7.5	8.8	7.5	6.9					
	0014	6.0	7.9	6.7	6.0	6.6	7.5	6.7	6.8	6.0	8.2					
	1218	7.0	6.2	6.4	6.3	6.5	8.0	6.5	7.5	6.6	6.5					
	2370	8.4	8.0	6.8	6.6	6.6	7.0	7.6	7.5	7.2	7.4					
	2371	7.5	6.5	6.6	6.4	6.1	6.6	7.5	7.0	7.0	6.8					
	1219	7.2	7.8	8.5	6.9	6.8	6.4	7.0	7.6	7.9	7.0					
	4365	5.8	7.2	8.0	8.5	6.6	8.5	6.5	7.0	6.5	7.2					
	4366	5.4	7.0	7.0	7.6	6.5	7.0	6.0	6.0	6.2	5.9					
	4358	5.4	6.5	5.6	5.0	6.6	6.8	6.1	7.0	7.2	6.8					
BOD	4367	1.8	2.2	2.0	1.8	----	----	2.1	2.4	2.2	2.0			2.0	3.0	3.0
	4359	1.5	1.5	2.2	1.8	----	----	1.0	1.2	1.2	1.0					
	0014	1.8	2.2	1.9	1.8	1.7	2.2	1.5	1.5	1.8	1.2					
	1218	2.0	1.0	2.0	1.5	1.7	1.8	1.7	1.6	1.6	1.6					
	2370	1.4	1.4	2.6	2.2	2.0	1.8	2.0	2.0	2.0	2.2					
	2371	1.8	2.2	2.8	2.6	2.2	2.0	2.2	2.2	2.2	2.4					
	1219	2.0	1.6	1.4	1.8	1.6	1.8	1.6	2.2	2.0	2.0					
	4365	2.0	2.0	1.5	1.5	1.8	1.5	2.0	1.8	2.0	1.4					
	4366	2.6	2.3	2.0	2.0	2.4	2.2	2.4	2.2	2.5	2.0					
	4358	2.4	1.6	1.5	2.2	1.4	1.2	1.4	1.2	1.4	1.2					

Total Coliform	0014	120	120	120	120	120	93	120	93	120	75			50	500	5000
	1218	93	93	93	93	93	120	93	120	120	120					
	2370	150	120	120	120	120	93	120	120	120	120					
	2371	210	210	150	150	150	120	150	150	150	150					
	1219	210	240	120	120	150	150	150	150	120	150					
	4365	150	150	120	150	120	120	120	120	120	150					
	4366	210	210	210	240	150	150	150	150	150	210					
	4358	93	120	73	120	120	93	93	93	120	120					
Fecal Coliform	4367	15	9	9	9	---	---	15	15	15	7			---	500	---
	4359	4	4	4	4	---	---	4	4	4	4					
	0014	9	9	9	15	9	7	9	9	9	7					
	1218	7	7	7	7	4	9	4	9	11	9					
	2370	9	9	9	9	9	9	9	9	9	9					
	2371	15	20	15	15	15	15	15	11	15	15					
	1219	23	23	7	9	21	21	15	15	9	15					
	4365	15	11	9	15	9	9	7	9	9	15					
TDS	4366	23	15	11	23	15	15	15	15	15	21			500 - 2000		
	4358	7	7	4	9	11	7	7	7	11	7					
	4367	420	220	444	324	---	---	358	268	180	220					
	4359	120	88	84	84	---	---	92	96	78	70					
	0014	160	156	108	106	140	124	192	160	152	196					
	1218	156	148	102	98	120	120	120	152	186	200					
	2370	220	168	172	168	128	180	172	146	152	166					
	2371	252	228	204	202	144	198	188	160	188	180					
TDS	1219	208	166	124	98	140	140	164	172	176	240					
	4365	10560	18848	25064	21532	22820	31600	23072	398	340	236					
	4366	23256	23572	32208	34668	23580	31864	23620	5048	360	260					
	4358	17392	22032	34280	29360	16280	25728	21948	620	258	296					

Note:(1) All values are expressed in mg/L except pH & Total Coliform value. Total 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 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.

2. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 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, 2021:

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1175	7.8	7.9	7.3	7.7	7.4	7.2	7.4	7.4	7.4	7.5			6.0 - 8.5	6.0 - 9.0	
	3083	7.7	7.4	7.6	7.7	7.7	7.5	7.9	7.3	7.4	7.5					
	4381	7.88	7.94	8.19	8.02	7.82	7.76	7.68	7.84	7.19	7.24					
	1786	7.27	7.30	8.04	7.48	7.66	7.34	8.07	7.93	7.88	7.67					
	1787	7.22	7.68	7.99	7.38	7.42	7.54	7.91	8.09	7.36	7.42					
	0025	7.76	7.80	7.92	7.42	7.56	7.46	8.11	7.97	7.28	7.34					
	4375	7.79	7.80	7.70	7.58	7.46	7.58	8.45	8.01	7.79	8.13					
	1782	7.30	7.80	7.82	7.90	7.92	7.83	7.51	7.32	7.48	7.34					

DO	1175	5.7	5.9	5.6	5.6	5.2	5.5	5.5	6.4	6.2	5.5			6.0	5.0	4.0
	3083	7.7	5.6	5.3	5.3	5.9	5.9	5.9	6.3	6.2	6.1					
	4381	7.3	7.1	7.2	7.1	7.2	7.3	7.1	7.3	7.4	7.2					
	1786	7.3	7.2	7.3	7.2	7.1	7.1	7.4	7.5	7.1	7.4					
	1787	7.1	7.2	7.3	7.2	7.3	7.2	7.4	7.1	7.3	7.2					
	0025	7.0	7.2	7.1	7.0	7.2	7.1	7.3	7.1	7.2	7.1					
	4375	7.0	7.1	7.1	7.1	7.2	7.1	7.2	7.1	7.2	7.1					
	1782	4.4	4.6	4.3	4.2	4.3	4.6	5.2	6.2	6.4	6.8					
BOD	1175	1.5	1.7	2.5	2.8	2.5	1.2	1.8	1.3	1.2	1.7			2.0	3.0	3.0
	3083	1.5	1.3	2.7	2.2	1.2	<1	1.5	1.1	1.2	1.0					
	4381	2.8	2.8	2.8	2.4	2.6	2.6	2.4	2.6	2.4	2.6					
	1786	2.6	2.4	2.6	2.4	2.6	2.2	2.6	2.6	2.4	2.6					
	1787	2.4	2.2	2.4	2.6	2.4	2.2	2.2	2.0	1.8	2.0					
	0025	2.2	2.4	2.6	2.8	2.6	2.4	2.6	2.2	2.0	2.2					
	4375	2.0	2.2	2.4	2.6	2.6	2.4	2.6	1.8	1.8	2.2					
	1782	2.6	2.8	2.6	2.8	2.8	2.4	2.8	2.8	2.6	2.4					
Total Coliform	1175	350	280	920	920	920	840	689	483	420	534			50	500	5000
	3083	250	220	1600	920	540	430	491	352	376	483					
	4381	120	120	150	75	75	120	150	120	150	120					
	1786	150	120	150	120	150	120	120	150	120	150					
	1787	93	120	150	120	150	120	150	120	150	120					
	0025	120	120	120	75	75	75	93	120	150	120					
	4375	130	120	93	93	93	75	120	93	93	75					
	1782	64	93	75	75	75	75	64	93	75	75					

Fecal Coliform	1175	76	81	350	240	430	350	235	145	229	272			---	500	---
	3083	81	76	920	350	280	280	154	193	193	207					
	4381	<3	3	3	3	3	3	3	3	3	3					
	1786	<3	3	3	3	3	3	3	3	3	3					
	1787	<3	3	3	3	3	3	3	3	3	3					
	0025	<3	3	3	3	3	3	3	3	3	3					
	4375	<3	3	3	3	3	3	3	3	3	3					
	1782	<3	3	3	3	3	3	3	3	3	3					
TDS	1175	372	428	445	764	623	648	658	186	240	330			500 - 2000		
	3083	386	418	389	419	432	376	442	192	196	305					
	4381	446	480	470	480	485	490	460	440	378	380					
	1786	416	450	540	528	540	526	516	413	396	418					
	1787	430	430	460	510	520	534	460	408	355	344					
	0025	374	380	418	498	510	442	516	390	386	410					
	4375	368	350	384	506	498	426	440	234	248	390					
	1782	25100	19000	23300	22400	22800	15380	11800	10400	9730	7320					
Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal Coliform. Total 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. High TDS values at Hamsaladevi could be attributed due to the intrusion of backwaters of Bay of Bengal.																

3. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 is as follows:

S. No.	Code	Location point
01	1785	Manthralayam, Kurnool Dist.
02	1174	Bhavapuram, Kurnool Dist.

03	4388	U/S of Kurnool town B/C with domestic sewage & A/c of Rayalaseema alkalies industries at Gondiparla, Kurnool.
04	4389	D/S of Kurnool town A/C with domestic sewage at Gondiparla, Kurnool.

Month-wise data of water quality of river Tungabhadra, 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1785	7.8	7.8	7.8	7.7	7.5	7.6	7.3	7.0	7.5	7.7			6.0 – 8.5	6.0 – 9.0	
	1174	7.6	7.3	7.7	7.9	7.8	7.9	7.3	7.6	7.7	7.5					
	4388	6.8	7.4	7.2	7.6	7.0	7.8	7.5	7.2	7.3	7.7					
	4389	7.1	7.1	6.9	7.6	7.1	7.6	7.6	6.8	7.5	7.7					
DO	1785	5.3	5.7	4.8	5.0	5.0	5.2	4.8	6.3	5.9	5.9			6.0	5.0	4.0
	1174	5.5	5.5	5.0	5.3	5.4	5.3	5.3	6.2	5.8	6.0					
	4388	5.3	4.5	4.3	5.5	4.1	4.3	4.6	6.2	5.9	5.7					
	4389	5.2	4.9	4.2	5.5	4.4	4.7	5.1	6.1	5.5	5.8					
BOD	1785	2.8	2.8	3.0	2.5	2.7	2.0	2.5	1.5	1.3	1.5			2.0	3.0	3.0
	1174	2.3	2.8	2.8	3	2.2	2.3	2.5	1.5	1.5	1.2					
	4388	2.3	2.7	3.0	1.8	3	2.5	2.8	1.3	1.5	2.5					
	4389	2.8	3.0	3.0	1.3	2.5	2.2	2.8	1.5	1.8	2.2					
Total Coliform	1785	540	430	430	350	540	920	866	408	491	549			50	500	5000
	1174	920	540	540	540	920	920	816	437	408	575					
	4388	430	540	920	920	1600	920	870	420	437	649					
	4389	540	920	920	540	920	1600	921	491	516	629					
Fecal Coliform	1785	210	130	170	130	240	350	454	110	289	368			---	500	---
	1174	170	180	220	210	280	430	368	124	145	281					
	4388	180	180	350	280	430	240	452	286	170	381					
	4389	140	210	430	220	250	350	510	229	272	309					
TDS	1785	636	812	724	454	508	714	712	152	296	350			500 - 2000		
	1174	738	898	1014	1185	946	1036	502	213	622	287					
	4388	1042	1120	1196	1325	1384	1120	523	228	224	630					

	4389	779	921	893	1095	1098	836	532	218	492	499			
Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal coliform. Total 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.														

4. River Nagavali:

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, Total Coliform, Fecal Coliform and TDS for the year, 2021 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.

Month-wise data of water quality of river Nagavali, 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	4351	7.86	7.30	7.24	7.97	7.66	6.66	8.48	7.58	7.09	7.99			6.0 – 8.5	6.0 – 9.0	
	1448	7.52	7.45	6.98	8.01	7.27	7.35	8.24	7.56	7.14	7.02					
	4346	8.28	7.62	7.39	8.82	7.33	7.06	7.56	7.36	7.32	7.81					
	4347	8.10	7.69	7.32	8.37	7.24	7.08	7.49	7.27	7.20	7.75					
DO	4351	6.0	6.7	6.7	6.2	5.8	6.0	5.8	6.6	7.5	6.6			6.0	5.0	4.0
	1448	5.9	6.5	8.1	6.5	7.5	6.5	6.5	7.0	6.0	6.5					
	4346	8.4	7.5	7.5	7.4	8.0	6.0	7.1	6.5	7.0	6.8					
	4347	6.4	7.2	7.0	7.0	7.5	6.0	6.8	6.0	6.0	6.5					
BOD	4351	1.3	1.7	1.4	2.1	2.0	1.8	2.2	2.5	1.2	1.5			2.0	3.0	3.0
	1448	1.9	1.9	1.4	2.0	1.7	1.6	1.9	1.8	1.5	1.7					
	4346	1.4	2.0	1.6	1.2	1.5	1.7	2.0	1.5	1.7	1.8					
	4347	1.9	2.2	1.8	1.4	1.8	2.0	2.3	1.8	2.0	2.0					
Total Coliform	4351	210	150	150	150	150	210	210	210	210	150			50	500	5000
	1448	120	120	93	120	120	150	120	120	120	120					
	4346	120	120	120	120	120	120	120	120	120	120					
	4347	150	150	210	150	150	150	150	150	150	150					
Fecal Coliform	4351	21	15	11	15	15	15	15	15	15	15			---	500	---
	1448	9	11	9	9	9	15	9	9	9	15					
	4346	7	9	7	7	9	9	9	9	9	15					
	4347	11	11	15	11	15	15	15	15	15	15					
TDS	4351	236	240	224	260	268	262	408	192	192	158			500-2000		
	1448	192	240	192	280	256	268	220	196	160	208					
	4346	252	224	240	272	232	252	228	220	208	162					
	4347	280	260	264	292	276	296	256	256	224	220					

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

Remarks: BOD & Fecal coliform values found to within the standard limits stipulated for bathing at all the locations.

5.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, Total Coliform, Fecal Coliform and TDS for the year, 2021 is as follows:

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

Month-wise data of water quality of river Kundu, 2021

Parameters	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
													Class A	Class B	Class C
pH	7.5	7.6	7.3	7.9	7.8	7.7	7.8	7.4	7.2	7.3			6.0 – 8.5		6.0 – 9.0
DO	5.1	4.8	5.1	5.0	5.6	5.2	5.2	5.9	5.6	5.8			6.0	5.0	4.0
BOD	2.5	2.5	2.8	1.8	3.0	2.5	2.8	1.8	1.5	2.0			2.0	3.0	3.0
Total Coliform	920	540	920	1600	1600	1600	1203	594	550	629			50	500	5000
Fecal Coliform	350	280	240	920	350	430	483	376	245	324			---	500	---
TDS	446	486	512	706	746	862	648	294	322	410			500 - 2000		
Note: All values are expressed in mg/L except pH, Total Coliform & Fecal Coliform value. Total 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.															

CPCB Water Quality Criteria for Designated Best Use

Designated-best- use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection.	A	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 50 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 6 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 2mg/l or less.
Outdoor bathing (Organized)	B	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 500 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 5 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less.
Drinking Water Source after conventional treatment and disinfection.	C	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 5000 or less. • pH between 6 to 9 • Dissolved oxygen 4 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Propagation of Wild life and Fisheries.	D	<ul style="list-style-type: none"> • pH between 6.5 to 8.5 • Dissolved oxygen 4 mg/l or more. • Free Ammonia (as N) 1.2 mg/l or less • pH 9 between 6.0 to 8.5.
Irrigation, Industrial Cooling, Controlled Waste disposal.	E	<ul style="list-style-type: none"> • Electrical Conductivity at 25°C micro mhos/cm Max. 2250. • Sodium Absorption ratio Max. 26 • Boron Max.2 mg/l.
	Below -E	Not Meeting A, B, C, D & E Criteria.

GOVERNMENT OF ANDHRA PRADESH
MUNICIPAL ADMINISTRATION & URBAN DEVELOPMENT (UBS) DEPARTMENT

Letter No.1282446/UBS/2020

Dated: 22-10-2021

From
The Special Chief Secretary to Government,
MA & UD Department,
A.P. Secretariat,
Velagapudi,
Guntur District

To
The Secretary,
Ministry of Jal Sakti,
MoHUA.,
Government of India,
New Delhi.(w.e.)

Sir,

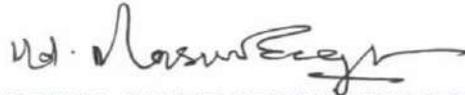
Sub:-MA & UD Department - National Green Tribunal – Orders of the
National Green Tribunal Principal Bench, New Delhi in OA
No.673/2018 - Monthly Progress Report for the month of
September, 2021 -Furnished – Regarding.

Ref:-Orders of the National Green Tribunal Principal Bench, New Delhi
in OA No.673/2018, dated. 24.09.2020.

*** **

In compliance to the directions of the Hon'ble National Green Tribunal
Principal Bench, New Delhi in the reference cited, I am herewith enclose the Monthly
Progress Report in the prescribed format for the month of September, 2021 for
taking further necessary action.

Yours faithfully,



For SPECIAL CHIEF SECRETARY TO GOVERNMENT



National Mission for Clean Ganga
Format for submission of Monthly Progress Report for the
month of SEPTEMBER, 2021 in the NGT Matter OA No. 673 of
2018 (in compliance to NGT order dated 24.09.2020)

For the State of Andhra Pradesh

Overall status of the State:

I. Total Urban Population : 1.5 Crore

II. Estimated Sewage Generation (MLD) : 1503.20 MLD (120 ULB's)

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD) : 516.65 MLD (44No's)
- Present Gap in Treatment Capacity in MLD : 986.55 MLD
- Capacity of under construction STP's : 533.47 MLD
- STPs Under Tender : 35.60 MLD
- No. of Operational STPs : 44 Nos
- No. of Non-complying STPs : Nil

III (A) Details of each existing STP in the State:

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Utilization capacity in MLD	Operational Status of STP	Compliance Status of STP
1	GVMC	Old town	May'2019	38.00	35.23	Operational	Complied
2		Appughar	26.09.2010	25.00	21.42	Operational	Complied
3		Mudasarlova	April'2008	13.00	9.65	Operational	Complied
4		Narava	Aug-01	54.00	22.36	Operational	Complied
5		Anakapalle	April'2018	15.00	7.55	Operational	Complied
6		Madinabagh		2.00	1.02	Operational	Complied
7		Yathapalem Colonies	April'2008	2.50	1.01	Operational	Complied
8		Gajuwaka	April'2008	0.50	0.23	Operational	Complied
9		Karnavanipalem	Dec' 2019	5.00	0.0	Operational	Complied
10		Mantripalem	April' 2008	1.00	0.31	Operational	Complied
11		Aganampudi	Dec' 2015	6.00	0.0	Operational	Complied
12		RathiCheruvu	Sep' 2019	2.00	0.65	Operational	Complied
13		Kommadi / Madhurawada	Aug' 2018	4.00	2.10	Operational	Complied
14		Bakkannapalem	Aug' 2011	1.00	0.36	Operational	Complied
15		Marikavalasa	Dec' 2012	2.00	1.15	Operational	Complied
16		Vambay Colony	Aug' 2011	3.00	1.38	Operational	Complied
17		YSR Nagar	Aug' 2011	2.00	1.30	Operational	Complied
18		Boyapalem	Aug' 2011	1.00	0.39	Operational	Complied
			Sub Total	177.00	106.12		

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Utilization capacity in MLD	Operational Status of STP	Compliance Status of STP
19	Rajamahendravaram	Hukumpeta	03.01.2009	30.00	30.0	Operational	Complied
20	Vijayawada	Ajith Singh Nagar-1	31.05.2011	40.00	39.52	Operational	Complied
21		Ajith Singh Nagar-2	31.05.2012	20.00	20.0	Operational	Complied
22		Ramalingeswar Nagar-1	30.06.2012	20.00	19.74	Operational	Complied
23		Ramalingeswar Nagar-2	20.10.2006	10.00	9.80	Operational	Complied
24		Autonagar -1	31.03.2005	10.00	9.70	Operational	Complied
25		Autonagar -2	31.12.2018	10.00	9.80	Operational	Complied
26		Jakkampudi	31.07.2017	20.00	13.50	Operational	Complied
			Sub Total	130.00	122.06		Complied
27	Tirupathi	Thukivakam	30.09.2018	50.00	33.0	Operational	Complied
28	Kadapa	Nanapally	02.08.2012	20.00	10.0	Partly Operational	Complied
29	Pulivendula	Rotarypuram	25.01.2009	6.50	2.50	Partly Operational	Complied
30	Tadipatri	Gannevaripalle	10.10.2010	3.50	2.50	Operational	Complied
31		Gannevaripalle	10.10.2010	8.00	4.0	Operational	Complied
			Sub Total	11.50	6.50		Complied
32	Puttaparthi	1.Sai Nagar	20.7.2001	0.50	0.50	Operational	Complied
33		2. Gokulam	20.7.2001	0.50	0.0	Under Rehabilitation	Complied
34		3. Prasanthi Gram	20.7.2001	0.50	0.0	Under Rehabilitation	Complied
			Sub Total	1.50	0.50		Complied
35	Narsaraopeta	CPT Road	02.02.2018	15.55	8.50	Operational	Complied
36	Nellore	Janardhan Reddy Colony		5.00	5.0	Trail Run	Complied
37		Allepuram		55.00	0.0		
38		Drivers Colony		11.00	0.0		
			Sub Total	71.00	5.0		Complied
39	Kurnool	Jammichettu	12.03.2019	0.80	0.80	Operational	Complied
40		SankalBagh	12.03.2019	0.80	0.80	Operational	Complied
41		Tungabhadra PumpHouse	10.03.2018	0.80	0.80	Operational	Complied
			Sub Total	2.40	2.40		Complied
42	Tadepalli	Mahanadu-1	10.12.2018	0.20	0.20	Operational	Complied
43		Mahanadu-2	15.12.2018	0.20	0.20	Operational	Complied
44	Kondapalli	Security Colony		0.80	0.80	Operational	Complied
			Grand Total	516.65	327.77		

III (B) Details of Under Construction STPs in the State

S.No.	Location	Scheme Name	No. of STP	Capacity of the plant in MLD	Physical Progress in %	Completion Timeline
1	Yemmiganur	UIDSSMT	1	19.80	96%	December 2021
2	Srikakulam	AMRUT	1	10.00	45%	December 2021
3	Vizianagaram	AMRUT	1	5.00	55%	December 2021
4	GVMC	Smart City (Package-I)	1	54.00	90%	December 2021
5	Kakinada	AMRUT	1	5.00	39%	December 2021
6	Rajamahendravaram	AMRUT	1	5.00	16%	March 2022
7	Bhimavaram	AMRUT	1	5.00	42%	December 2021
8	Tadepalligudem	AMRUT	1	5.00	0%	Retenders are in Progress and work is Expected to be completed by December 2022
9	Eluru	AMRUT	1	5.00	43%	March 2022
10	Machilipatnam	AMRUT	1	5.00	46%	December 2021
11	Gudivada	AMRUT	1	5.00	42%	December 2021
12	Vijayawada	JNNURM	1	20.00	83%	December 2021
13	Tenali	AMRUT	1	10.00	35%	March 2022
		14 FC	1	2.00	30%	December 2021
14	Ongole	AMRUT	1	15.00	60%	December 2021
15	Chilakaluripeta	AMRUT	1	5.00	21%	March 2022
16	Kavali	AMRUT	1	15.00	77%	December 2021
17	Nellore	HUDCO	1	20.00	85%	December 2021
			1	14.00	0%	Due to existing site dispute new site to be identified. Upon finalization of the new site work will be completed in one year time.
18	Tirupati	Smart City	1	25.00	25%	March 2022
19	Srikalahasti	AMRUT	1	7.00	27%	March 2022
20	Madanapalle	AMRUT	1	5.00	20%	March 2022
21	Kadapa	AMRUT	1	20.00	0%	Re -Tenders are invited and Upon finalization of the new site work will be completed in one year time.
22	Anantapuramu	AMRUT	1	10.00	0%	Re Tenders area

						in process and work is expected to be completed by December 2022.
23	Dharmavaram	AMRUT	1	15.00	0%	Re Tenders area in process and work is expected to be completed by December 2022.
24	Guntakal	AMRUT	1	8.00	0%	December 2022
25	Kurnool	AMRUT	1	2.00	50%	December 2021
		AMRUT	1	10.00	12%	March 2022
26	Nandyal	AMRUT	1	10.00	15%	March 2022
27	Adoni	AMRUT	1	5.00	24%	March 2022
28	Guntur	OTSFA	1	10.00	52%	Jun 2022
			1	20.00	51%	Jun 2022
			1	42.00	51%	Jun 2022
			1	28.00	51%	Jun 2022
			1	23.00	0%	Due to existing site dispute new site to be identified. Upon finalization of the new site work will be completed in one year time.
29	Pulivendula	PLAN	1	10.00	37%	December 2022
			1	1.50	32%	December 2022
			7 (0.5MLD x 7nos)	3.50	0%	December 2022
			1	0.02	0%	December 2022
			1	0.07	0%	December 2022
			1	0.08	0%	December 2022
			1	0.10	0%	December 2022
30	Rayachoti	PLAN	6	22.40	0 %	August 2023
31	Kondapalli	CSR Funds	1	2.00	12 %	July 2023
32	Kanigiri	AIIB	1	6.00	0 %	August 2023
33	Sullurpet	AIIB	3	8.00	0 %	August 2023
34	Allagadda	AIIB	1	5.00	0 %	August 2023
35	Nandikotkur	AIIB	1	5.00	0 %	August 2023
36	Madakasira	AIIB	1	5.00	0 %	August 2023
Grand Total			62	533.47		

III (C) Details of Proposed STPs in the State:

Phase	Description	No. of ULBs	Proposed Total STP capacities (MLD)	Cost of Total STPs (crores)
I	Municipal Corporations	16	539.00	1617.00
II	ULBs having population above 1 Lakhs	18	221.00	663.00
III	ULBs having Population ranging between 75,000 to 1 Lakh	8	43.00	129.00
IV	ULBs having Population less than 75,000	78	499.00	1497.00
V	Taxes and others etc @20%			781.20
	Total		1302.00	4687.20

III D) STATUS OF STPs UNDER RIVER STRETCHES:

- Total Estimated Sewage Generation (in MLD) 2020 :302.00 MLD
- Existing no. of STP with Treatment Capacity (in MLD) :162.40 MLD
- Present Gap in Treatment Capacity (in MLD) : 139.60 MLD
- Capacity of under Construction STPs (in MLD) : 57.00 MLD
- Gap after completion of ongoing Projects : 82.60 MLD

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-IV RIVERS						
1.	Tungabhadra	Kurnool	2.40 MLD	10 MLD	12 %	Rs.79.78 crs accorded administrative sanction for construction of STPs with the capacity of 35.60MLD which is in tender process.
				2 MLD	50%	
2	Kundu	Nandyal	0.00	10 MLD	15%	Comprehensive DPR on UGD scheme is prepared for Rs.85.00 Cr with STPs capacity of 26 (21 + 5) MLD to cater the needs of 2035 year. DPR submitted to the Govt. for according Administrative Sanction.

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-V RIVERS						
1.	Nagavali	Srikakulam	0.00	10 MLD	45%	Comprehensive proposal for providing UGD scheme for 2035 is prepared for an amount of Rs.190.36 Cr with an additional STP capacity of 12 MLD.
2.	Godavari	Rajamahendravaram	30.00	5 MLD	16%	DPR on Comprehensive UGD scheme prepared with additional STP's of capacity 72.37 MLD for an amount of Rs.404.00 Cr. RMC has attended the remarks and resubmitted the proposals. Now it is proposed to take up the works with an estimated cost of Rs.107.00 crores in the first year.
3.	Krishna	Vijayawada	130.00	20 MLD	83%	DPR is prepared for Rs.246.38 Cr for providing Comprehensive UGD scheme to meet the 2035 demand including up-gradation of 2 STPs of 30.00 MLD capacity.

IV. Details of Industrial Pollution:

- No. of industries in the State: 9943 No's
- No. of water polluting industries in the State: 1434 No's
- Quantity of effluent generated from the industries in MLD: 4505.38 MLD

Effluent Break-Up Details:

- Once through Cooling water: 3826.13 MLD
- Trade effluents: 375.59 MLD
- cooling tower/Boiler blow down: 254.12 MLD
- Domestic waste water: 49.54 MLD

From the total waste water generation from the industries, major portion is once through cooling water (about 85%) and temperature to be maintained for discharge of once through cooling system is not more than 5⁰C temperature of intake water.

- ✓ From the Cooling tower/Boiler blow down (about 5.6%).
- ✓ The remaining about 9.4% is generated from Trade effluent & Domestic Discharges.
- ✓ APPCB is not permitting any industry to discharge industrial / trade effluents into the rivers.
- Number of industrial units having ETPs: 1093 No's
- Number of industrial units connected to CETP: 342 No's
 - i. Existing: 1093 no's ETPs
 - ii. Under construction: Nil
 - iii. Proposed: Nil
- **Compliance status of the ETPs:**
 - ✓ APPCB is regularly monitoring the compliance status of ETPs and action is being initiated for non-compliance industries.
- Number and total capacity of CETPs (details of existing/ under construction / proposed)
 - i. Existing: 8 No's with total capacity of 36.5. MLD
 - ii. Proposed: 3 no's
 - 1.5 MLD at Atchuthapuram SEZ, Visakhapatnam
 - 1.5 MLD at Nakkapalli, Visakhapatnam.
 - 1.2 MLD at Chittoor District

• Status of compliance and operation of the CETPs

S.No	Name and Address of the CETP & contact person	Design capacity (in MLD)	Current Operating capacity (in MLD)	Type and No. of member units	Compliance status
1.	Brandix India Apparel City Private Limited, APSEZ, Atchutapuram Pudimadaka Road, Visakhapatnam.	20	*4	Textile park- 14 units	Complied *In Brandix India Apparel City, textile industries were not established as anticipated. Hence effluent generation is less.
2.	Ramky Pharma City (India) Ltd, JN Pharma City, Parawada Mandal, Visakhapatnam.	9.53	6.0	Pharmaceutical & Bulk drugs- 92 units	Complied
3.	Kondapally Envirotech Pvt. Ltd., (KEPL), IDA, Kondapalli (V), Ibrahimpatnam (M), Krishna District.	0.2	0.0	Pharmaceutical & Bulk drugs- 14 units	Complied
4.	Vijayawada Auto Cluster Development Company, Industrial Estate, Auto Nagar, Vijayawada.	0.2	0.04	Food beverages, Herbal pharma, Oil solvents & lubricants - 35 units.	Complied
5.	Machilipatnam Imitation Jewellery Park Pvt. Ltd., Jewellery Park, Pothealli, Machilipatnam.	0.07	0.002	Electro Plating - 48 Units	Complied
6.	Nagari Dyeing Owners Association, Chinthalapatteda (V), Nagari (M), Chittoor District.	4	0.0	Manual Dyeing units - 105 units	*Not in operation
7.	Atchuthapuram Effluent Treatment Plant, Atchutapuram Visakhapatnam.	1.5	0.6	Pharmaceutical & Bulk drugs- 20 units	Complied
8.	M/s Andhra Pradesh Industrial Infrastructure Corporation Limited (APIIC), 1.0 MLD CEPT, MPSEZ, Menakur (V), Naidu pet (M), SPSR Nellore District.	1.0	Under Trail run	Pharmaceutical - 7 Units	Compliance will be verified after starting operations
	Total	35.5	10.642		

V. Solid Waste Management:

- Total number of Urban Local Bodies: **124** and their Population: **1.5** Crore
- Current Municipal Solid Waste Generation: **6898** TPD. for 124 ULBs (14 Newly Constituted ULBs – These ULBs have not yet developed urban Dynamics).
- 2 Waste to Energy Projects covering 13 ULBs are in progress with an installed capacity of 3200 TPD (30 MW),
- 32 Wet Waste Projects covering 35 ULBs treating 1435 TPD with an installed capacity of 1625 TPD are existing.
- 17 Wet Waste Projects covering 17 ULBs are in progress with an installed capacity of 397 TPD.
- Tenders were called for selection of agencies to establish ISWM projects in 72 ULBs under PPP mode. Evaluation completed and file circulated to Government of Andhra Pradesh for approval.
- 3 Construction and Demolition waste processing plants in Greater Visakhapatnam Municipal Corporation, Vijayawada Municipal Corporation and Tirupati Municipal Corporation treating 100 TPD with an installed capacity of 200 TPD are existing.
- 114 Dumpsites with an area of 1000 acres are existing in the state. Out of which remediation of 4 dumpsites in 4 ULBs 2 ULBs (Vijayawada & Tirupati) are completed 2 ULBs (Visakhapatnam, and Tanuku) are in under progress.
- Quantification of Dumpsites in ULBs with 1 Lakh above Population is completed and the ULBs were Instructed to take up the tender process for remediation of dumpsites.
- 79 Material Recovery facilities covering 79 ULBs treating 810 TPD with an installed capacity of 1000 TPD Existing.
- 45 Material Recovery facilities covering 45 ULBs are in progress with an installed capacity of 500 TPD.
- The Source Segregation in the State is 83.00% and capacity utilization of the treatment units is the same percentage, Ward Secretariats and volunteer system established and unique in the State are ensuring 99 % door to door collection.
- Total no. of wards: 3946 No. of wards having door to door collection service: 3906. No. of wards practicing segregation at source: 3246
- No Dumpsites of legacy waste are within 1km buffer of both sides of the rivers in the State.

Status of ULB wise Management of Solid Waste:

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
1	Amudalavalasa	19	Existing WtC	10	85%	Vizag WtE		Established	4	85%
2	Ichchapuram	18	Existing WtC	10	85%	Feasibility Study under progress		Established	2	85%
3	Palasa-kasibugga	28	Existing WtC	15	80%	Feasibility Study under progress		In Progress		
4	Rajam	21	Existing WtC	12	80%	Vizag WtE		Established	4	85%
5	Bobbili	29	Existing WtC	16	90%	Vizag WtE		Established	8	85%
6	Salur	24	Existing WtC	13	90%	Vizag WtE		Established	6	90%
7	GVMC	918	Existing WtC	505	85%	Vizag WtE		Established	300	85%
8	Narsipatnam	30	Existing WtC	17	80%	Vizag WtE		Established	8	85%
9	Yellamanchali	23	Existing WtC	13	80%	Vizag WtE		Established	4	85%
10	Adoni	81	Existing WtCNG	45	80%	Connected to Cement Factories	3	Established	20	85%
11	Nuzivid	29	Existing WtC	16	80%	Guntur WtE		In Progress		
12	Thiruvuru	17	Existing WtCNG	9	80%	Guntur WtE		Established	2	85%
13	Tenali	80	Existing WtC	44	90%	Guntur WtE		Established	20	90%
14	Sattenpalle	28	WtCNG - Pidugurala	15	85%	Guntur WtE		Established	6	85%
15	Narsaraopet	57	WtCNG - Pidugurala	31	85%	Guntur WtE		Established	16	85%
16	Piduguralla	31	Existing WtCNG	17	85%	Guntur WtE		In Progress		
17	Allagadda	20	Existing WtC	11	85%	Connected to Cement Factories	1	Established	4	85%
18	Rayadurgam	30	Existing WtC	17	85%	RDF inprogress		Established	6	85%
19	Puttaparty	15	Existing WtC	8	85%	RDF inprogress		Established	2	85%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
20	Yemmiganur	46	WtCNG - Adoni	25	85%	RDF inprogress		Established	10	85%
21	Anantapur	131	WtCNG Planned	0		Connected to Cement Factories	8	Established	35	90%
22	Atmakur K	22	WtC Awarded	0		Connected to Cement Factories	1	Established	4	90%
23	Badvel	35	WtC Planned	0		Connected to Cement Factories	2	In Progress		
24	Dhone	29	WtC Planned	0		Connected to Cement Factories	2	Established	6	90%
25	Markapur	35	Existing WtC	19	80%	Feasibility Study under progress		Established	8	85%
26	Giddalur	19	Existing WtC	10	85%	RDF inprogress		Established	4	85%
27	Kanigiri	22	Existing WtC	12	85%	Feasibility Study under progress		Established	4	85%
28	Chirala	42	Existing WtC	23	90%	Guntur WtE		Established	9	90%
29	Gudivada	58	WtCNG awarded	0		RDF Connected / Guntur WtE	3	Established	14	90%
30	Palamaneru	25	Existing WtC	14	85%	Feasibility Study under progress		In Progress		
31	Punganur	27	Existing WtC	15	80%	Feasibility Study under progress		Established	6	85%
32	Madanpalle	67	Existing WtCNG	37	85%	RDF inprogress		In Progress		
33	Sullurpet	22	Existing WtC	12	80%	Feasibility Study under progress		Established	4	85%
34	Srikakulam	65	WtCNG Planned	0		Vizag WtE		Established	16	90%
35	Palakonda	16	WtC Awarded	0		Vizag WtE		In Progress		
36	Vizianagaram	119	WtCNG Planned	0		Vizag WtE		Established	30	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
37	Parvathipuram	26	WtC Awarded	0		Vizag WtE		In Progress		
38	Nellimarla	14	WtC Planned	0		Vizag WtE		Established	2	90%
39	Gudur N	36	WtC Planned	0		Connected to Cement Factories	2	In Progress		
40	Guntakal	62	WtC Planned	0		Connected to Cement Factories	2	Established	14	90%
41	Jaggaiahpet	26	WtCNG awarded	0		RDF Connected / Guntur WtE	1	In Progress		
42	Jammalamadugu	22	Existing WtC	12	80%	Connected to Cement Factories	1	In Progress		
43	Pedana	16	WtC Awarded	0		Guntur WtE		In Progress		
44	Vuyyuru	20	WtC Awarded	0		Guntur WtE		In Progress		
45	Guntur	363	WtCNG Planned	0		Guntur WtE		Established	80	90%
46	Mangalagiri - Tadepalle	70	WtC Planned	0		Guntur WtE		Established	16	90%
47	Ponnur	29	WtC Planned	0		Guntur WtE		Established	6	90%
48	Chilakaluripet	49	WtC Planned	0		Guntur WtE		Established	12	90%
49	Bapatla	34	WtCNG awarded	0		Guntur WtE		Established	8	90%
50	Repalle	25	WtC Awarded	0		Guntur WtE		Established	4	90%
51	Vinukonda	30	WtCNG awarded	0		Guntur WtE		InProgress		
52	Macherla	28	Existing WtC	0		Feasibility Study under progress		Established	6	90%
53	Kadapa	167	WtCNG Planned	0		Connected to Cement Factories	6	Established	40	90%
54	Dharmavaram	62	WtC Planned	0		RDF in progress		In Progress		
55	Kadiri	43	WtC Awarded	0		Connected to Cement Factories	1	Established	8	90%
56	Gooty	24	WtC Planned	0		RDF in progress		Established	4	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
57	Pamidi	14	WtC Planned	0		RDF inprogress		In Progress		
58	Hindupur	74	WtC Awarded	0		RDF inprogress		In Progress		
59	Kurnool	224	WtCNG Planned	0		Connected to Cement Factories	2	In Progress		
60	Kalyandurgam	21	WtC Awarded	0		RDF inprogress		Established	2	90%
61	Madakasira	12	WtC Awarded	0		RDF inprogress		Established	2	90%
62	Machilipatnam	89	WtC Awarded	0		RDF Connected / Guntur WtE	3	Established	20	90%
63	Mydukur	22	WtC Planned	0		Connected to Cement Factories	1	In Progress		
64	Nandigama	22	WtCNG awarded	0		RDF Connected / Guntur WtE	1	In Progress		
65	Nandikotkur	23	WtC Planned	0		Connected to Cement Factories	1	Established	4	90%
66	Gudur K	14	WtC Planned	0		RDF in progress		In Progress		
67	Nandyal	98	WtCNG Planned	0		Connected to Cement Factories	3	In Progress		
68	Proddutur	79	WtCNG Planned	0		Connected to Cement Factories	2	In Progress		
69	Pulivendula	32	Existing WtC	18	85%	Connected to Cement Factories	2	Established	6	85%
70	Rajahmundry	168	WtCNG Planned	0		Connected to Cement Factories	3	Established	40	90%
71	Rajampeta	23	WtC Planned	0		Connected to Cement Factories	1	In Progress		
72	Rayachoti	44	WtC Planned	0		Connected to Cement Factories	2	Established	8	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
73	Tadipatri	53	Existing WtC	29	90%	Connected to Cement Factories	2	Established	10	90%
74	Tirupati	208	Existing WtCNG	114	85%	Connected to Cement Factories	4	Established	45	85%
75	Ongole	123	WtCNG awarded	0		Guntur WtE		Established	30	90%
76	Chimakurthy	17	WtC Awarded	0		Guntur WtE		In Progress		
77	Addanki	20	WtC Awarded	0		Guntur WtE		Established	4	90%
78	Kandukur	28	WtC Awarded	0		Feasibility Study under progress		Established	6	90%
79	Kakinada	159	WtCNG Planned	0		Feasibility Study under progress		Established	35	90%
80	Vijayawada	507	Existing WtC	279	85%	RDF Connected / Guntur WtE	6	Established	150	85%
81	Gollaprolu	11	WtC Planned	0		Feasibility Study under progress		In Progress		
82	Pithapuram	25	WtC Planned	0		Feasibility Study under progress		Established	3	90%
83	Peddapuram	24	WtC Planned	0		Feasibility Study under progress		Established	3	90%
84	Samalkota	28	WtC Planned	0		Feasibility Study under progress		Established	4	90%
85	Yeleswaram	16	WtC Planned	0		Feasibility Study under progress		Established	2	90%
86	Ramachandrapuram	21	WtC Planned	0		Feasibility Study under progress		Established	2	90%
88	Mandapeta	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
88	Tuni	26	WtC Awarded	0		Feasibility Study		Established	3	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
						under progress				
89	Mummidivaram	12	WtC Awarded	0		Feasibility Study under progress		Established	2	90%
90	Amalapuram	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%
91	Eluru	106	WtCNG Planned	0		Feasibility Study under progress		Established	22	90%
92	Tadepalligudem	51	WtC Planned	0		Feasibility Study under progress		Established	8	90%
93	Tanuku	44	WtC Planned	0		Feasibility Study under progress		In Progress		
94	Palakollu	33	WtC Planned	0		Feasibility Study under progress		In Progress		
95	Narsapuram	29	WtC Planned	0		Feasibility Study under progress		Established	4	90%
96	Bhimavaram	69	WtC Planned	0		Feasibility Study under progress		Established	12	90%
97	Nidadavole	21	WtC Planned	0		Feasibility Study under progress		In Progress		
98	Kovvur	19	WtC Planned	0		Feasibility Study under progress		In Progress		
99	JangareddyGudem	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
100	Chittoor	92	WtCNG Planned	0		Feasibility Study under progress		Established	18	90%
101	SriKalahasti	39	WtC Planned	0		Feasibility Study under progress		Established	8	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
102	Nagari	30	WtC Planned	0		Feasibility Study under progress		In Progress		
103	Puttur	26	WtC Planned	0		Feasibility Study under progress		In Progress		
104	Nellore	300	WtCNG Planned	0		Feasibility Study under progress		In Progress		
105	Venkatagiri	25	WtC Planned	0		Feasibility Study under progress		In Progress		
106	Yerraguntla	17	WtC Planned	0		Connected to Cement Factories	1	In Progress		
107	Naidupet	22	Tenders Evaluation in Process	0		Feasibility Study under progress		Established	4	90%
108	Atmakur N	15	Tenders Evaluation in Process	0		Feasibility Study under progress		In Progress		
109	Kavali	51	Tenders Evaluation in Process	0		Feasibility Study under progress		Established	10	90%
110	Akiveedu	11	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
111	Kondapalli	21	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
112	Dachepali	11	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
113	Gurazala	9	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
114	Darsi	12	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
115	BuchireddyPale m	12	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
116	Penukonda	10	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
117	Bethamcharla	14	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
118	Kamlapuram	7				Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode				
119	Kupam	15				Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode				
120	Y.S.R. - Tadegadapa	23				Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode				
121	Chuintalapudi	4				Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode				
122	Podili	6				Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode				
123	Alluru	9				Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode				
124	B.KothaKota	6				Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode				
Total		6898								

VI. Bio-medical Waste Management:

- Total Bio-medical generation: 19.894Tones/ day
- No. of Hospitals and Health Care Facilities: 11,268 Nos.

Status of Treatment Facility/ CBMWTF	:	Presently, there are 12 Nos. of Common Bio-medical Waste Treatment Facilities (CBMWTFs) in covering total 13 Districts in Andhra Pradesh for treatment and disposal of bio-medical waste as per the BMW Management Rules 2016.
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VII. Hazardous Waste Management:

- Total Hazardous Waste generation about: 5,65,832.59 TPA 2019-2020 as per hazardous waste inventory, 2019-20.
- No of industries generating Hazardous Waste: 2648 Nos as per Hazardous Waste inventory, 2019 -20.
- **For the month of September, 2021, the Quantity of Hazardous Waste Treated & Disposed is as follows:**

- i) Utilizable waste is 12047.039TPM (suitable to use as raw material or as alternative fuel viz. Co-processing in Cement Plants so as to conserve the resources),
- ii) Recyclable waste is 161.77 TPM (suitable for recycling /recovery of material viz. oil reclamation units, lead and zinc recovery units).
- iii) Incinerable waste is 329.51 TPM (not suitable for any recycling / reuse and having high calorific value i.e. > 2500 K cal/kg) and
- iv) Land fillable waste is 15830.27 TPM (not suitable for any recycling / reuse and having low calorific value i.e. < 2500 K cal/kg) is reaching and treated at the TSDFs in Visakhapatnam and Nellore.

- **Details of on-going or proposed TSDF:**

Two TSDF are existing in the State of Andhra Pradesh

- ✓ M/s Coastal Waste Management Project Unit-1, Parwada, Visakhapatnam.
- ✓ M/s Coastal Waste Management Project Unit-2 a division of Mumbai Waste Management Limited, S.P.S.R. Nellore District.

VIII. Plastic Waste Management:

Total plastic waste generation	39,626 TPA (As per Annual Report for the F.Y. 2020-21).
Treatment / Measures adopted for reduction or management of plastic waste	<ul style="list-style-type: none">• The recyclable plastic waste generated is being sent to recycling units and the non-recyclable plastic waste is being sent to cement plants and utilizing for road construction in some ULBs. 24 Nos of recyclers registered with APPCB. Total recycling capacity is 26732 TPA.• 29 ULBs tied up with nearby Cement Plants for co-incineration of non- recyclable plastic waste and 5123 MTs of Non-recyclable plastic waste was sent to cement plants for the F.Y 2020-21.• The MA&UD and PR&RD Dept., informed that they have been conducting strict vigilance and surprise visits on those who store or use or sell or dispose plastic with less than 50 microns' thickness, for which 721 Task force teams were constituted for inspections and raids to control plastic sale and usage of less than 50 microns' thickness carry bags / films in the ULBs of A.P. About 240 tons of plastic carry bags were seized and Rs. 169 lakhs towards fine was collected.

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

Details of Faecal Sludge Treatment Plants:

No. of Completed FSTPs	:	2 (30 KLD)
No. of In-progress FSTPs	:	64 (950 KLD)
No. of FSTPs to be retendered	:	11 (175 KLD)
No. of FSTPs DPRs to be prepared	:	10

IX(A): Details of Completed FSTPs:

S.No.	Name of ULB	Capacity(in KLD)	Operational Status of FSTP
1	Narsapur	15	Operational
2	Rajam	15	Operational

IX(B): Details of In-Progress FSTPs:

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
1	Dhone	20	75 % of Work Completed , Oct- 21
2	Gooty	15	Mar-22
3	Jammalamadugu	15	Mar-22
4	Kadiri	25	Mar-22
5	Kalyanadurgam	10	Mar-22
6	Madakasira	5	Mar-22
7	Paamidi	10	Mar-22
8	Pulivendula	20	Mar-22
9	Puttaparthi	10	Mar-22
10	Rayachoti	25	Mar-22
11	Rayadurg	20	Mar-22
12	Allagadda	10	Mar-22
13	Atmakur (K)	15	Mar-22
14	Badvel	25	Mar-22
15	Gudur (K)	5	Mar-22
16	Mydukuru	15	Mar-22
17	Nandikotkur	15	Mar-22
18	Palamaneru	15	Ready for inauguration
19	Punganur	15	Mar-22
20	Rajampeta	15	Mar-22
21	Yerraguntla	10	Mar-22
22	Atmakur (N)	10	Mar-22
23	Giddalur	10	Mar-22
24	Gudur (N)	20	Mar-22
25	Kandukur	20	Mar-22
26	Kanigiri	15	Mar-22
27	Markapur	20	Sep-21
28	Nagari	20	Mar-22
29	Naidupet	15	Mar-22
30	Puttur	15	Mar-22
31	Sullurpeta	15	Mar-22
32	Venkatagiri	15	Mar-22
33	Addanki	10	Mar-22
34	Bapatla	25	40 % Wok Completed , Dec-21
35	Chimakurthy	10	Mar-22
36	Chirala	25	40 % Wok Completed , Dec-21
37	Macherla	15	Mar-22
38	Mangalagiri	25	Mar-22
39	Piduguralla	15	Mar-22

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
40	Ponnur	15	40 % Wok Completed , Dec-21
41	Repalle	15	Mar-22
42	Sattenapalli	15	Mar-22
43	Vinukonda	15	Ready for inauguration
44	Amalapuram	15	Mar-22
45	Gollaprolu	5	Mar-22
46	Kovvur	10	Mar-22
47	Mandapeta	15	Mar-22
48	Mummidivaram	10	Mar-22
49	Peddapuram	15	Mar-22
50	Pithapuram	15	Mar-22
51	Ramachandrapuram	15	Mar-22
52	Samalkota	15	Mar-22
53	Tuni	15	Mar-22
54	Yeleshwaram	10	Mar-22
55	Amudalavalasa	10	Mar-22
56	Bobbili	15	Ready for inauguration
57	Ichapuram	10	Mar-22
58	Narsipatnam	20	Mar-22
59	Nellimarla	10	Mar-22
60	Palakonda	10	Mar-22
61	Palasa-Kasibugga	15	Mar-22
62	Parvathipuram	15	Mar-22
63	Salur	15	Mar-22
64	Yelamanchili	15	Mar-22
Total		950	

IX (C) Details of FSTPs to be Retendered:

S.No	Name of the ULB	Capacity of Plant (KLD)
1	Jangareddigudem	15
2	Nidadavolu	15
3	Palacole	20
4	Pedana	10
5	Tadepalli	20
6	Tanuku	25
7	Vuyyuru	15
8	Jaggaihpeta	15
9	Nandigama	15
10	Nuzividu	15
11	Tiruvuru	10

IX(D) Details of FSTPs DPRs to be Prepared:

S.No	Name of ULB	Status of the project
1	Akiveedu	DPR to be prepared - Newly Constituted ULB
2	Kondapalli	DPR to be prepared - Newly Constituted ULB
3	Dachepali	DPR to be prepared - Newly Constituted ULB
4	Gurazala	DPR to be prepared - Newly Constituted ULB
5	Darsi	DPR to be prepared - Newly Constituted ULB
6	BuchireddyPalem	DPR to be prepared - Newly Constituted ULB
7	Penukonda	DPR to be prepared - Newly Constituted ULB
8	Bethamcharla	DPR to be prepared - Newly Constituted ULB
9	Kamlapuram	DPR to be prepared - Newly Constituted ULB
10	Kupam	DPR to be prepared - Newly Constituted ULB

- X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment:
- A total of 32 No's of outfall points of the major disposal drains have been identified which are contributing to River Pollution. All the above 32 No's of outfall points are provided with Meshes/Screens to prevent solid waste from falling in to the Rivers.
- XI. **Details of Nodal Officer appointed by Chief Secretary in the State/UT:**
Commissioner & Director of Municipal Administration Appointment as a Nodal Officer for Polluted River stretches as per G.O.RT. No: 56
- XII. Details of meetings carried under the Chairmanship of Chief Secretary in the State/UT:
- XIII. **Latest water quality of polluted river, its tributaries, drains with flow details:**
- APPCB has been monitoring the 5 polluted river stretches at 27 locations on monthly basis and the data is being uploaded in RRC Website <https://rrc.ap.gov.in/Views/Monitoring.aspx> every month. **The monitoring of water quality data for the month of September, 2021 is enclosed.**
 - **As per the analysis of samples collected at 27 locations in the month of September, 2021 the B.O.D value is less than 3.0 mg/lit. (Details enclosed)**
- XIV. Ground water regulation:
- XV. Good irrigation practices being adopted by the State:
- XVI. Rain Water Harvesting:
- XVII. Demarcation of Floodplain and removal of illegal encroachments:
- XVIII. Maintaining minimum e-flow of river:

- XIX.** Plantation activities along the rivers:
- XX.** Development of biodiversity park:
- XXI.** Reuse of Treated Water:
- XXII.** Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:
- XXIII.** Status of Preparation of Action Plan by the 13 Coastal States:
- XXIV.** Regulation of Mining Activities in the State/UT:
- XXV.** Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring.

ENCLOSURES

ANNEXURE

Water quality status of polluted river stretches in Andhra Pradesh - 2021

I. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 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.

Parameter	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Standard		
														Class A	Class B	Class C
pH	4367	7.44	7.61	7.84	8.23	---	----	7.48	7.59	7.68				6.0 - 8.5	6.0 - 9.0	
	4359	7.50	6.85	7.07	6.96	----	----	8.24	7.71	7.82						
	0014	7.52	7.52	7.53	7.22	7.76	7.61	7.40	7.72	7.62						
	1218	7.36	7.75	7.08	7.31	7.87	7.67	7.42	7.47	7.57						
	2370	7.69	7.30	6.84	7.92	7.02	7.44	6.60	7.81	7.80						
	2371	7.05	7.19	6.97	7.90	7.78	7.25	6.75	7.60	7.62						
	1219	7.25	7.21	6.83	7.59	7.02	7.34	6.51	7.53	7.66						
	4365	7.22	7.42	7.22	7.5	7.38	7.83	7.27	7.46	7.66						
	4366	7.33	7.71	7.30	7.73	7.62	7.69	7.30	7.41	7.79						
	4358	7.57	6.95	7.52	7.49	7.38	7.75	7.57	7.58	7.36						
DO	4367	5.6	5.4	6.2	6.9	---	----	6.3	6.2	6.5				6.0	5.0	4.0
	4359	8.5	8.5	8.2	8.0	---	----	7.5	8.8	7.5						
	0014	6.0	7.9	6.7	6.0	6.6	7.5	6.7	6.8	6.0						
	1218	7.0	6.2	6.4	6.3	6.5	8.0	6.5	7.5	6.6						
	2370	8.4	8.0	6.8	6.6	6.6	7.0	7.6	7.5	7.2						
	2371	7.5	6.5	6.6	6.4	6.1	6.6	7.5	7.0	7.0						
	1219	7.2	7.8	8.5	6.9	6.8	6.4	7.0	7.6	7.9						
	4365	5.8	7.2	8.0	8.5	6.6	8.5	6.5	7.0	6.5						
	4366	5.4	7.0	7.0	7.6	6.5	7.0	6.0	6.0	6.2						
	4358	5.4	6.5	5.6	5.0	6.6	6.8	6.1	7.0	7.2						
BOD	4367	1.8	2.2	2.0	1.8	----	----	2.1	2.4	2.2				2.0	3.0	3.0
	4359	1.5	1.5	2.2	1.8	----	----	1.0	1.2	1.2						
	0014	1.8	2.2	1.9	1.8	1.7	2.2	1.5	1.5	1.8						
	1218	2.0	1.0	2.0	1.5	1.7	1.8	1.7	1.6	1.6						
	2370	1.4	1.4	2.6	2.2	2.0	1.8	2.0	2.0	2.0						
	2371	1.8	2.2	2.8	2.6	2.2	2.0	2.2	2.2	2.2						
	1219	2.0	1.6	1.4	1.8	1.6	1.8	1.6	2.2	2.0						
	4365	2.0	2.0	1.5	1.5	1.8	1.5	2.0	1.8	2.0						
	4366	2.6	2.3	2.0	2.0	2.4	2.2	2.4	2.2	2.5						
	4358	2.4	1.6	1.5	2.2	1.4	1.2	1.4	1.2	1.4						

Total Coliform	4359	75	39	64	60	---	---	49	49	64				50	500	5000
	0014	120	120	120	120	120	93	120	93	120						
	1218	93	93	93	93	93	120	93	120	120						
	2370	150	120	120	120	120	93	120	120	120						
	2371	210	210	150	150	150	120	150	150	150						
	1219	210	240	120	120	150	150	150	150	120						
	4365	150	150	120	150	120	120	120	120	120						
	4366	210	210	210	240	150	150	150	150	150						
	4358	93	120	73	120	120	93	93	93	120						
Fecal Coliform	4367	15	9	9	9	---	---	15	15	15				---	500	---
	4359	4	4	4	4	---	---	4	4	4						
	0014	9	9	9	15	9	7	9	9	9						
	1218	7	7	7	7	4	9	4	9	11						
	2370	9	9	9	9	9	9	9	9	9						
	2371	15	20	15	15	15	15	15	11	15						
	1219	23	23	7	9	21	21	15	15	9						
	4365	15	11	9	15	9	9	7	9	9						
	4366	23	15	11	23	15	15	15	15	15						
4358	7	7	4	9	11	7	7	7	11							
TDS	4367	420	220	444	324	---	---	358	268	180				500 - 2000		
	4359	120	88	84	84	---	---	92	96	78						
	0014	160	156	108	106	140	124	192	160	152						
	1218	156	148	102	98	120	120	120	152	186						
	2370	220	168	172	168	128	180	172	146	152						
	2371	252	228	204	202	144	198	188	160	188						
	1219	208	166	124	98	140	140	164	172	176						
	4365	10560	18848	25064	21532	22820	31600	23072	398	340						
	4366	23256	23572	32208	34668	23580	31864	23620	5048	360						
4358	17392	22032	34280	29360	16280	25728	21948	620	258							

Note: (1) All values are expressed in mg/L except pH & Total Coliform value. Total 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 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.

2. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 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, 2021:

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1175	7.8	7.9	7.3	7.7	7.4	7.2	7.4	7.4	7.4				6.0 - 8.5	6.0 – 9.0	
	3083	7.7	7.4	7.6	7.7	7.7	7.5	7.9	7.3	7.4						
	4381	7.88	7.94	8.19	8.02	7.82	7.76	7.68	7.84	7.19						
	1786	7.27	7.30	8.04	7.48	7.66	7.34	8.07	7.93	7.88						
	1787	7.22	7.68	7.99	7.38	7.42	7.54	7.91	8.09	7.36						
	0025	7.76	7.80	7.92	7.42	7.56	7.46	8.11	7.97	7.28						
	4375	7.79	7.80	7.70	7.58	7.46	7.58	8.45	8.01	7.79						
	1782	7.30	7.80	7.82	7.90	7.92	7.83	7.51	7.32	7.48						

DO	1175	5.7	5.9	5.6	5.6	5.2	5.5	5.5	6.4	6.2				6.0	5.0	4.0
	3083	7.7	5.6	5.3	5.3	5.9	5.9	5.9	6.3	6.2						
	4381	7.3	7.1	7.2	7.1	7.2	7.3	7.1	7.3	7.4						
	1786	7.3	7.2	7.3	7.2	7.1	7.1	7.4	7.5	7.1						
	1787	7.1	7.2	7.3	7.2	7.3	7.2	7.4	7.1	7.3						
	0025	7.0	7.2	7.1	7.0	7.2	7.1	7.3	7.1	7.2						
	4375	7.0	7.1	7.1	7.1	7.2	7.1	7.2	7.1	7.2						
	1782	4.4	4.6	4.3	4.2	4.3	4.6	5.2	6.2	6.4						
BOD	1175	1.5	1.7	2.5	2.8	2.5	1.2	1.8	1.3	1.2				2.0	3.0	3.0
	3083	1.5	1.3	2.7	2.2	1.2	<1	1.5	1.1	1.2						
	4381	2.8	2.8	2.8	2.4	2.6	2.6	2.4	2.6	2.4						
	1786	2.6	2.4	2.6	2.4	2.6	2.2	2.6	2.6	2.4						
	1787	2.4	2.2	2.4	2.6	2.4	2.2	2.2	2.0	1.8						
	0025	2.2	2.4	2.6	2.8	2.6	2.4	2.6	2.2	2.0						
	4375	2.0	2.2	2.4	2.6	2.6	2.4	2.6	1.8	1.8						
	1782	2.6	2.8	2.6	2.8	2.8	2.4	2.8	2.8	2.6						
Total Coliform	1175	350	280	920	920	920	840	689	483	420				50	500	5000
	3083	250	220	1600	920	540	430	491	352	376						
	4381	120	120	150	75	75	120	150	120	150						
	1786	150	120	150	120	150	120	120	150	120						
	1787	93	120	150	120	150	120	150	120	150						
	0025	120	120	120	75	75	75	93	120	150						
	4375	130	120	93	93	93	75	120	93	93						
	1782	64	93	75	75	75	75	64	93	75						

Fecal Coliform	1175	76	81	350	240	430	350	235	145	229				---	500	---
	3083	81	76	920	350	280	280	154	193	193						
	4381	<3	3	3	3	3	3	3	3	3						
	1786	<3	3	3	3	3	3	3	3	3						
	1787	<3	3	3	3	3	3	3	3	3						
	0025	<3	3	3	3	3	3	3	3	3						
	4375	<3	3	3	3	3	3	3	3	3						
	1782	<3	3	3	3	3	3	3	3	3						
TDS	1175	372	428	445	764	623	648	658	186	240				500 - 2000		
	3083	386	418	389	419	432	376	442	192	196						
	4381	446	480	470	480	485	490	460	440	378						
	1786	416	450	540	528	540	526	516	413	396						
	1787	430	430	460	510	520	534	460	408	355						
	0025	374	380	418	498	510	442	516	390	386						
	4375	368	350	384	506	498	426	440	234	248						
	1782	25100	19000	23300	22400	22800	15380	11800	10400	9730						
Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal Coliform. Total 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. High TDS values at Hamsaladeevi could be attributed due to the intrusion of backwaters of Bay of Bengal.																

3. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 is as follows:

S. No.	Code	Location point
01	1785	Manthralayam, Kurnool Dist.
02	1174	Bhavapuram, Kurnool Dist.

03	4388	U/S of Kurnool town B/C with domestic sewage & A/c of Rayalaseema alkalies industries at Gondiparla, Kurnool.
04	4389	D/S of Kurnool town A/C with domestic sewage at Gondiparla, Kurnool.

Month-wise data of water quality of river Tungabhadra, 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1785	7.8	7.8	7.8	7.7	7.5	7.6	7.3	7.0	7.5				6.0 – 8.5	6.0 – 9.0	
	1174	7.6	7.3	7.7	7.9	7.8	7.9	7.3	7.6	7.7						
	4388	6.8	7.4	7.2	7.6	7.0	7.8	7.5	7.2	7.3						
	4389	7.1	7.1	6.9	7.6	7.1	7.6	7.6	6.8	7.5						
DO	1785	5.3	5.7	4.8	5.0	5.0	5.2	4.8	6.3	5.9				6.0	5.0	4.0
	1174	5.5	5.5	5.0	5.3	5.4	5.3	5.3	6.2	5.8						
	4388	5.3	4.5	4.3	5.5	4.1	4.3	4.6	6.2	5.9						
	4389	5.2	4.9	4.2	5.5	4.4	4.7	5.1	6.1	5.5						
BOD	1785	2.8	2.8	3.0	2.5	2.7	2.0	2.5	1.5	1.3				2.0	3.0	3.0
	1174	2.3	2.8	2.8	3	2.2	2.3	2.5	1.5	1.5						
	4388	2.3	2.7	3.0	1.8	3	2.5	2.8	1.3	1.5						
	4389	2.8	3.0	3.0	1.3	2.5	2.2	2.8	1.5	1.8						
Total Coliform	1785	540	430	430	350	540	920	866	408	491				50	500	5000
	1174	920	540	540	540	920	920	816	437	408						
	4388	430	540	920	920	1600	920	870	420	437						
	4389	540	920	920	540	920	1600	921	491	516						
Fecal Coliform	1785	210	130	170	130	240	350	454	110	289				---	500	---
	1174	170	180	220	210	280	430	368	124	145						
	4388	180	180	350	280	430	240	452	286	170						
	4389	140	210	430	220	250	350	510	229	272						
TDS	1785	636	812	724	454	508	714	712	152	296				500 - 2000		
	1174	738	898	1014	1185	946	1036	502	213	622						
	4388	1042	1120	1196	1325	1384	1120	523	228	224						

	4389	779	921	893	1095	1098	836	532	218	492			
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Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal coliform. Total 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.

4. River Nagavali:

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, Total Coliform, Fecal Coliform and TDS for the year, 2021 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.

Month-wise data of water quality of river Nagavali, 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	4351	7.86	7.30	7.24	7.97	7.66	6.66	8.48	7.58	7.09				6.0 – 8.5	6.0 – 9.0	
	1448	7.52	7.45	6.98	8.01	7.27	7.35	8.24	7.56	7.14						
	4346	8.28	7.62	7.39	8.82	7.33	7.06	7.56	7.36	7.32						
	4347	8.10	7.69	7.32	8.37	7.24	7.08	7.49	7.27	7.20						
DO	4351	6.0	6.7	6.7	6.2	5.8	6.0	5.8	6.6	7.5				6.0	5.0	4.0
	1448	5.9	6.5	8.1	6.5	7.5	6.5	6.5	7.0	6.0						
	4346	8.4	7.5	7.5	7.4	8.0	6.0	7.1	6.5	7.0						
	4347	6.4	7.2	7.0	7.0	7.5	6.0	6.8	6.0	6.0						
BOD	4351	1.3	1.7	1.4	2.1	2.0	1.8	2.2	2.5	1.2				2.0	3.0	3.0
	1448	1.9	1.9	1.4	2.0	1.7	1.6	1.9	1.8	1.5						
	4346	1.4	2.0	1.6	1.2	1.5	1.7	2.0	1.5	1.7						
	4347	1.9	2.2	1.8	1.4	1.8	2.0	2.3	1.8	2.0						
Total Coliform	4351	210	150	150	150	150	210	210	210	210				50	500	5000
	1448	120	120	93	120	120	150	120	120	120						
	4346	120	120	120	120	120	120	120	120	120						
	4347	150	150	210	150	150	150	150	150	150						
Fecal Coliform	4351	21	15	11	15	15	15	15	15	15				----	500	----
	1448	9	11	9	9	9	15	9	9	9						
	4346	7	9	7	7	9	9	9	9	9						
	4347	11	11	15	11	15	15	15	15	15						
TDS	4351	236	240	224	260	268	262	408	192	192				500-2000		
	1448	192	240	192	280	256	268	220	196	160						
	4346	252	224	240	272	232	252	228	220	208						
	4347	280	260	264	292	276	296	256	256	224						

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

Remarks: BOD & Fecal coliform values found to within the standard limits stipulated for bathing at all the locations.

5. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 is as follows:

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

Month-wise data of water quality of river Kundu, 2021

Parameters	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
													Class A	Class B	Class C
pH	7.5	7.6	7.3	7.9	7.8	7.7	7.8	7.4	7.2				6.0 – 8.5		6.0 – 9.0
DO	5.1	4.8	5.1	5.0	5.6	5.2	5.2	5.9	5.6				6.0	5.0	4.0
BOD	2.5	2.5	2.8	1.8	3.0	2.5	2.8	1.8	1.5				2.0	3.0	3.0
Total Coliform	920	540	920	1600	1600	1600	1203	594	550				50	500	5000
Fecal Coliform	350	280	240	920	350	430	483	376	245				---	500	---
TDS	446	486	512	706	746	862	648	294	322				500 - 2000		
Note: All values are expressed in mg/L except pH, Total Coliform & Fecal Coliform value. Total 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.															

CPCB Water Quality Criteria for Designated Best Use

Designated-best- use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection.	A	<ul style="list-style-type: none"> • Total Coli Forms Organism MPN/100 ml shall be 50 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 6 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 2mg/l or less.
Outdoor bathing (Organized)	B	<ul style="list-style-type: none"> • Total Coli Forms Organism MPN/100 ml shall be 500 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 5 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less.
Drinking Water Source after conventional treatment and disinfection.	C	<ul style="list-style-type: none"> • Total Coli Forms Organism MPN/100 ml shall be 5000 or less. • pH between 6 to 9 • Dissolved oxygen 4 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Propagation of Wild life and Fisheries.	D	<ul style="list-style-type: none"> • pH between 6.5 to 8.5 • Dissolved oxygen 4 mg/l or more. • Free Ammonia (as N) 1.2 mg/l or less • pH 9 between 6.0 to 8.5.
Irrigation, Industrial Cooling, Controlled Waste disposal.	E	<ul style="list-style-type: none"> • Electrical Conductivity at 25°C micro mhos/cm Max. 2250. • Sodium Absorption ratio Max. 26 • Boron Max.2 mg/l.
	Below -E	Not Meeting A, B, C, D & E Criteria.

GOVERNMENT OF ANDHRA PRADESH
MUNICIPAL ADMINISTRATION & URBAN DEVELOPMENT (UBS) DEPARTMENT

Letter No.1282446/UBS/2020

Dated: 28-09-2021

From
The Special Chief Secretary to Government,
MA & UD Department,
A.P. Secretariat,
Velagapudi,
Guntur District

To
The Secretary,
Ministry of Jal Sakti,
MoHUA.,
Government of India,
New Delhi.(w.e.)

Sir,

Sub:-MA & UD Department - National Green Tribunal – Orders of the
National Green Tribunal Principal Bench, New Delhi in OA
No.673/2018 - Monthly Progress Report for the month of
August, 2021 -Furnished – Regarding.

Ref:-Orders of the National Green Tribunal Principal Bench, New Delhi
in OA No.673/2018, dated. 24.09.2020.

*** **

In compliance to the directions of the Hon'ble National Green Tribunal
Principal Bench, New Delhi in the reference cited, I am herewith enclose the Monthly
Progress Report in the prescribed format for the month of August, 2021 for taking
further necessary action.

Yours faithfully,

E. Sudha Raje

For SPECIAL CHIEF SECRETARY TO GOVERNMENT



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

For the State of Andhra Pradesh

Overall status of the State:

- I. Total Urban Population : 1.5 Crore
 II. Estimated Sewage Generation (MLD) : 1503.20 MLD (120 ULB's)

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD) : 516.65 MLD (44No's)
- Present Gap in Treatment Capacity in MLD : 986.55 MLD
- Capacity of under construction STP's : 533.47 MLD
- STPs Under Tender : 35.60 MLD
- No. of Operational STPs : 44 Nos
- No. of Non-complying STPs : Nil

III (A) Details of each existing STP in the State:

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Utilization capacity in MLD	Operational Status of STP	Compliance Status of STP
1	GVMC	Old town	May'2019	38.00	35.23	Operational	Complied
2		Appughar	26.09.2010	25.00	21.42	Operational	Complied
3		Mudasarlova	April'2008	13.00	9.65	Operational	Complied
4		Narava	Aug-01	54.00	22.36	Operational	Complied
5		Anakapalle	April'2018	15.00	7.55	Operational	Complied
6		Madinabagh		2.00	1.02	Operational	Complied
7		Yathapalem Colonies	April'2008	2.50	1.01	Operational	Complied
8		Gajuwaka	April'2008	0.50	0.23	Operational	Complied
9		Karnavani palem	Dec' 2019	5.00	0.0	Operational	Complied
10		Mantripalem	April' 2008	1.00	0.31	Operational	Complied
11		Aganampudi	Dec' 2015	6.00	0.0	Operational	Complied
12		Rathi Cheruvu	Sep' 2019	2.00	0.65	Operational	Complied
13		Kommadi / Madhurawada	Aug' 2018	4.00	2.10	Operational	Complied
14		Bakkannapalem	Aug' 2011	1.00	0.36	Operational	Complied
15		Marikavalasa	Dec' 2012	2.00	1.15	Operational	Complied
16		Vambay Colony	Aug' 2011	3.00	1.38	Operational	Complied
17		YSR Nagar	Aug' 2011	2.00	1.30	Operational	Complied
18		Boyapalem	Aug' 2011	1.00	0.39	Operational	Complied
			Sub Total	177.00	106.12		

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Utilization capacity in MLD	Operational Status of STP	Compliance Status of STP
19	Rajamahendravaram	Hukumpeta	03.01.2009	30.00	30.0	Operational	Complied
20	Vijayawada	Ajith Singh Nagar-1	31.05.2011	40.00	39.52	Operational	Complied
21		Ajith Singh Nagar-2	31.05.2012	20.00	20.0	Operational	Complied
22		Ramalingeswar Nagar-1	30.06.2012	20.00	19.74	Operational	Complied
23		Ramalingeswar Nagar-2	20.10.2006	10.00	9.80	Operational	Complied
24		Autonagar -1	31.03.2005	10.00	9.70	Operational	Complied
25		Autonagar -2	31.12.2018	10.00	9.80	Operational	Complied
26		Jakkampudi	31.07.2017	20.00	13.50	Operational	Complied
			Sub Total	130.00	122.06		Complied
27	Tirupathi	Thukivakam	30.09.2018	50.00	33.0	Operational	Complied
28	Kadapa	Nanapally	02.08.2012	20.00	10.0	Partly Operational	Complied
29	Pulivendula	Rotarypuram	25.01.2009	6.50	2.50	Partly Operational	Complied
30	Tadipatri	Gannevaripalle	10.10.2010	3.50	2.50	Operational	Complied
31		Gannevaripalle	10.10.2010	8.00	4.0	Operational	Complied
			Sub Total	11.50	6.50		Complied
32	Puttaparthi	1.Sai Nagar	20.7.2001	0.50	0.50	Operational	Complied
33		2. Gokulam	20.7.2001	0.50	0.0	Under Rehabilitation	Complied
34		3. Prasanthi Gram	20.7.2001	0.50	0.0	Under Rehabilitation	Complied
			Sub Total	1.50	0.50		Complied
35	Narsaraopeta	CPT Road	02.02.2018	15.55	8.50	Operational	Complied
36	Nellore	Janardhan Reddy Colony		5.00	5.0	Trail Run	Complied
37		Allepuram		55.00	0.0		
38		Drivers Colony		11.00	0.0		
			Sub Total	71.00	5.0		Complied
39	Kurnool	Jammichettu	12.03.2019	0.80	0.80	Operational	Complied
40		Sankal Bagh	12.03.2019	0.80	0.80	Operational	Complied
41		Tungabhadra PumpHouse	10.03.2018	0.80	0.80	Operational	Complied
			Sub Total	2.40	2.4		Complied
42	Tadepalli	Mahanadu-1	10.12.2018	0.20	0.20	Operational	Complied
43		Mahanadu-2	15.12.2018	0.20	0.20	Operational	Complied
44	Kondapalli	Security Colony		0.80	0.80	Operational	Complied
			Grand Total	516.65	327.77		

III (B) Details of Under Construction STPs in the State

S. No.	Location	Scheme Name	No. of STP	Capacity of the plant in MLD	Physical Progress in %	Completion Timeline
1	Yemmiganur	UIDSSMT	1	19.80	96%	December 2021
2	Srikakulam	AMRUT	1	10.00	45%	December 2021
3	Vizianagaram	AMRUT	1	5.00	55%	December 2021
4	GVMC	Smart City (Package-I)	1	54.00	88%	December 2021
5	Kakinada	AMRUT	1	5.00	39%	December 2021
6	Rajamahendravaram	AMRUT	1	5.00	15%	March 2022
7	Bhimavaram	AMRUT	1	5.00	42%	December 2021
8	Tadepalli gudem	AMRUT	1	5.00	0%	Retenders are in Progress and work is Expected to be completed by December 2022
9	Eluru	AMRUT	1	5.00	43%	March 2022
10	Machilipatnam	AMRUT	1	5.00	46%	December 2021
11	Gudivada	AMRUT	1	5.00	42%	December 2021
12	Vijayawada	JNNURM	1	20.00	83%	December 2021
13	Tenali	AMRUT	1	10.00	35%	March 2022
		14 FC	1	2.00	30%	December 2021
14	Ongole	AMRUT	1	15.00	60%	December 2021
15	Chilakaluripeta	AMRUT	1	5.00	21%	March 2022
16	Kavali	AMRUT	1	15.00	77%	December 2021
17	Nellore	HUDCO	1	20.00	85%	December 2021
			1	14.00	0%	Due to existing site dispute new site to be identified. Upon finalization of the new site work will be completed in one year time.
18	Tirupati	Smart City	1	25.00	25%	March 2022
19	Srikalahasti	AMRUT	1	7.00	25%	March 2022
20	Madanapalle	AMRUT	1	5.00	20%	March 2022
21	Kadapa	AMRUT	1	20.00	0%	Re -Tenders are invited and Upon finalization of the new site work will be completed in one year time.

22	Anantapuramu	AMRUT	1	10.00	0%	Re Tenders area in process and work is expected to be completed by December 2022.
23	Dharmavaram	AMRUT	1	15.00	0%	Re Tenders area in process and work is expected to be completed by December 2022.
24	Guntakal	AMRUT	1	8.00	0%	December 2022
25	Kurnool	AMRUT	1	2.00	50%	December 2021
		AMRUT	1	10.00	10%	March 2022
26	Nandyal	AMRUT	1	10.00	15%	March 2022
27	Adoni	AMRUT	1	5.00	24%	March 2022
28	Guntur	OTSFA	1	10.00	52%	Jun 2022
			1	20.00	51%	Jun 2022
			1	42.00	51%	Jun 2022
			1	28.00	51%	Jun 2022
			1	23.00	0%	Due to existing site dispute new site to be identified. Upon finalization of the new site work will be completed in one year time.
29	Pulivendula	PLAN	1	10.00	35%	December 2022
			1	1.50	30%	December 2022
			7 (0.5MLD x 7nos)	3.50	0%	December 2022
			1	0.02	0%	December 2022
			1	0.07	0%	December 2022
			1	0.08	0%	December 2022
			1	0.10	0%	December 2022
30	Rayachoti	PLAN	6	22.40	0%	August 2023
31	Kondapalli	CSR Funds	1	2.00	10%	July 2023
32	Kanigiri	AIIB	1	6.00	0%	August 2023
33	Sullurpet	AIIB	3	8.00	0%	August 2023
34	Allagadda	AIIB	1	5.00	0%	August 2023

35	Nandikotkur	AIIB	1	5.00	0 %	August 2023
36	Madakasira	AIIB	1	5.00	0 %	August 2023
Grand Total			62	533.47		

III (C) Details of Proposed STPs in the State:

Phase	Description	No. of ULBs	Proposed Total STP capacities (MLD)	Cost of Total STPs (crores)
I	Municipal Corporations	16	539.00	1617.00
II	ULBs having population above 1 Lakhs	18	221.00	663.00
III	ULBs having Population ranging between 75,000 to 1 Lakh	8	43.00	129.00
IV	ULBs having Population less than 75,000	78	499	1497.00
V	Taxes and others etc @20%			781.20
Total			1302.00	4687.20

III D) STATUS OF STPs UNDER RIVER STRETCHES:

- Total Estimated Sewage Generation (in MLD) 2020 : 302.00 MLD
- Existing no. of STP with Treatment Capacity (in MLD) : 162.40 MLD
- Present Gap in Treatment Capacity (in MLD) : 139.60 MLD
- Capacity of under Construction STPs (in MLD) : 57.00 MLD
- Gap after completion of ongoing Projects : 82.60 MLD

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-IV RIVERS						
1.	Tungabhadra	Kurnool	2.40 MLD	10 MLD	10 %	Rs.79.78 crs accorded administrative sanction for construction of STPs with the capacity of 35.60MLD which is in tender process.
				2 MLD	50%	
2	Kundu	Nandyal	0.00	10 MLD	15%	Comprehensive DPR on UGD scheme is prepared for Rs.85.00 Cr with STPs capacity of 26 (21 + 5) MLD to cater the needs of 2035 year. DPR submitted to the Govt. for according Administrative Sanction.

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-V RIVERS						
1.	Nagavali	Srikakulam	0.00	10 MLD	45%	Comprehensive proposal for providing UGD scheme for 2035 is prepared for an amount of Rs.190.36 Cr with an additional STP capacity of 12 MLD.
2.	Godavari	Rajamahendravaram	30.00	5 MLD	15 %	DPR on Comprehensive UGD scheme prepared with additional STP's of capacity 72.37 MLD for an amount of Rs.404.00 Cr. RMC has attended the remarks and resubmitted the proposals. Now it is proposed to take up the works with an estimated cost of Rs.107.00 crores in the first year.
3.	Krishna	Vijayawada	130.00	20 MLD	83%	DPR is prepared for Rs.246.38 Cr for providing Comprehensive UGD scheme to meet the 2035 demand including up-gradation of 2 STPs of 30.00 MLD capacity.

IV. Details of Industrial Pollution:

- No. of industries in the State: 9941No's
- No. of water polluting industries in the State: 1432 No's
- Quantity of effluent generated from the industries in MLD: 4505.152 MLD

Effluent Break-Up Details:

- Once through Cooling water: 3826.13 MLD
- Trade effluents: 375.36 MLD
- cooling tower/Boiler blow down: 254.12 MLD
- Domestic waste water: 49.54 MLD

From the total waste water generation from the industries, major portion is once through cooling water (about 85%) and temperature to be maintained for discharge of once through cooling system is not more than 5°C temperature of intake water.

- ✓ From the Cooling tower/Boiler blow down (about 5.6%).
- ✓ The remaining about 9.4% is generated from Trade effluent & Domestic Discharges.
- ✓ APPCB is not permitting any industry to discharge industrial / trade effluents into the rivers.
- Number of industrial units having ETPs: 1093 No's
- Number of industrial units connected to CETP: 340 No's
 - i. Existing: 1093 no's ETPs
 - ii. Under construction: 01
 - iii. Proposed: Nil
- **Compliance status of the ETPs:**
 - ✓ APPCB is regularly monitoring the compliance status of ETPs and action is being initiated for non-compliance industries.
- Number and total capacity of CETPs (details of existing/ under construction / proposed)
 - i. Existing: 7 No's with total capacity of 35.5. MLD
 - ii. Under construction: 1 no's
 - 1 MLD at Menakur, Nellore District
 - iii. Proposed: 3 no's
 - 1.5 MLD at Atchuthapuram SEZ, Visakhapatnam
 - 1.5 MLD at Nakkapalli, Visakhapatnam.
 - 1.2 MLD at Chittoor District

• Status of compliance and operation of the CETPs

S. No.	Name and Address of the CETP & contact person	Design capacity	Current Operating capacity	Type and No. of member units	Compliance status
1.	Brandix India Apparel City Private Limited, APSEZ, Atchutapuram Pudimadaka Road, Visakhapatnam.	20 MLD	*4 MLD	Textile park- 14 units	Complied *In Brandix India Apparel City, textile industries were not established as anticipated. Hence effluent generation is less.
2.	RamkyPharma City (India) Ltd, JN Pharma City, Parawada Mandal, Visakhapatnam.	9.53 MLD	6.0 MLD	Pharmaceutical & Bulk drugs- 92 units	Complied
3.	Kondapally Envirotech Pvt. Ltd., (KEPL), IDA, Kondapalli (V), Ibrahimpatnam (M), Krishna District.	0.2 MLD	0.0 MLD	Pharmaceutical & Bulk drugs- 14 units	Complied
4.	Vijayawada Auto Cluster Development Company, Industrial Estate, Auto Nagar, Vijayawada.	0.2 MLD	0.04 MLD	Food beverages, Herbal pharma, Oil solvents & lubricants - 35 units.	Complied
5.	Machilipatnam Imitation Jewellery Park Pvt. Ltd., Jewellery Park, Pothepalli, Machilipatnam.	0.07 MLD	0.002 MLD	Electro Plating - 48 Units	Complied
6.	Nagari Dyeing Owners Association, Chinthalapatteda (V), Nagari (M), Chittoor District.	4 MLD	0.0 MLD	Manual Dyeing units - 105 units	Complied
7.	Atchuthapuram Effluent Treatment Plant, Atchutapuram Visakhapatnam.	1.5 MLD	0.6 MLD	Pharmaceutical & Bulk drugs- 20 units	Complied
	Total	35.5	10.642		

V. Solid Waste Management:

- Total number of Urban Local Bodies: 124 and their Population: 1.5 Crore
- Current Municipal Solid Waste Generation: 7660 TPD. for 124 ULBs (14 Newly Constituted ULBs – These ULBs have not yet developed urban Dynamics).
- 2 Waste to Energy Projects covering 13 ULBs are in progress with an installed capacity of 3200 TPD (30 MW),
- 32 Wet Waste Projects covering 35 ULBs treating 1435 TPD with an installed capacity of 1625 TPD are existing.
- 17 Wet Waste Projects covering 17 ULBs are in progress with an installed capacity of 397 TPD.
- Tenders were called for selection of agencies to establish ISWM projects in 72 ULBs under PPP mode. Evaluation of Bids are in Process.
- 3 Construction and Demolition waste processing plants in Greater Visakhapatnam Municipal Corporation, Vijayawada Municipal Corporation and Tirupati Municipal Corporation treating 100 TPD with an installed capacity of 200 TPD are existing.
- 114 Dumpsites with an area of 1000 acres are existing in the state. Out of which remediation of 4 dumpsites in 4 ULBs (Visakhapatnam, Vijayawada, Tirupati and Tanuku) are under progress.
- Quantification of Dumpsites in ULBs with 1 Lakh above Population is completed and the ULBs were Instructed to take up the tender process for remediation of dumpsites.
- 76 Material Recovery facilities covering 76 ULBs treating 810 TPD with an installed capacity of 1000 TPD Existing.
- 48 Material Recovery facilities covering 48 ULBs are in progress with an installed capacity of 500 TPD.
- The Source Segregation in the State is 83.00% and capacity utilization of the treatment units is the same percentage, Ward Secretariats and volunteer system established and unique in the State are ensuring 99 % door to door collection.
- Total no. of wards: 3946 No. of wards having door to door collection service: 3906. No. of wards practicing segregation at source: 3246
- No Dumpsites of legacy waste are within 1km buffer of both sides of the rivers in the State.

Status of ULB wise Management of Solid Waste:

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
1	Arnodalavalasa	19	Existing WtC	10	85%	Vizag WtE		Established	4	85%
2	Ichchapuram	18	Existing WtC	10	85%	Feasibility Study under progress		Established	2	85%
3	Palasa-kasibugga	28	Existing WtC	15	80%	Feasibility Study under progress		In Progress		
4	Rajam	21	Existing WtC	12	80%	Vizag WtE		Established	4	85%
5	Bobbili	29	Existing WtC	16	90%	Vizag WtE		Established	8	85%
6	Salur	24	Existing WtC	13	90%	Vizag WtE		Established	6	90%
7	GVMC	918	Existing WtC	505	85%	Vizag WtE		Established	300	85%
8	Narsipatnam	30	Existing WtC	17	80%	Vizag WtE		Established	8	85%
9	Yellamanchali	23	Existing WtC	13	80%	Vizag WtE		Established	4	85%
10	Adoni	81	Existing WtCNG	45	80%	Connected to Cement Factories	3	Established	20	85%
11	Nuzivid	29	Existing WtC	16	80%	Guntur WtE		In Progress		
12	Thiruvuru	17	Existing WtCNG	9	80%	Guntur WtE		Established	2	85%
13	Tenali	80	Existing WtC	44	90%	Guntur WtE		Established	20	90%
14	Sattenpalle	28	WtCNG - Piduguralla	15	85%	Guntur WtE		Established	6	85%
15	Narsaraopet	57	WtCNG - Piduguralla	31	85%	Guntur WtE		Established	16	85%
16	Piduguralla	31	Existing WtCNG	17	85%	Guntur WtE		In Progress		
17	Allagadda	20	Existing WtC	11	85%	Connected to Cement Factories	1	Established	4	85%
18	Rayadurgam	30	Existing WtC	17	85%	RDF in progress		Established	6	85%
19	Puttaparty	15	Existing WtC	8	85%	RDF in progress		Established	2	85%

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
20	Yemmiganur	46	WtCNG - Adoni	25	85%	RDF in progress		Established	10	85%
21	Anantapur	131	WtCNG Planned	0		Connected to Cement Factories	8	Established	35	90%
22	Atmakur K	22	WtC Awarded	0		Connected to Cement Factories	1	Established	4	90%
23	Badvel	35	WtC Planned	0		Connected to Cement Factories	2	In Progress		
24	Dhone	29	WtC Planned	0		Connected to Cement Factories	2	Established	6	90%
25	Markapur	35	Existing WtC	19	80%	Feasibility Study under progress		Established	8	85%
26	Giddalur	19	Existing WtC	10	85%	RDF in progress		Established	4	85%
27	Kanigiri	22	Existing WtC	12	85%	Feasibility Study under progress		Established	4	85%
28	Chirala	42	Existing WtC	23	90%	Guntur WtE		Established	9	90%
29	Gudivada	58	WtCNG awarded	0		RDF Connected / Guntur WtE	3	Established	14	90%
30	Palamaneru	25	Existing WtC	14	85%	Feasibility Study under progress		In Progress		
31	Punganur	27	Existing WtC	15	80%	Feasibility Study under progress		Established	6	85%
32	Madanpalle	67	Existing WtCNG	37	85%	RDF in progress		In Progress		
33	Sullurpet	22	Existing WtC	12	80%	Feasibility Study under progress		Established	4	85%
34	Srikakulam	65	WtCNG Planned	0		Vizag WtE		Established	16	90%
35	Palakonda	16	WtC Awarded	0		Vizag WtE		In Progress		

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
36	Vizianagaram	119	WtCNG Planned	0		Vizag WtE		Established	30	90%
37	Parvathipuram	26	WtC Awarded	0		Vizag WtE		In Progress		
38	Nellimarla	14	WtC Planned	0		Vizag WtE		Established	2	90%
39	Gudur N	36	WtC Planned	0		Connected to Cement Factories	2	In Progress		
40	Guntakal	62	WtC Planned	0		Connected to Cement Factories	2	Established	14	90%
41	Jaggaiahpet	26	WtCNG awarded	0		RDF Connected / Guntur WtE	1	In Progress		
42	Jammalamadugu	22	Existing WtC	12	80%	Connected to Cement Factories	1	In Progress		
43	Pedana	16	WtC Awarded	0		Guntur WtE		In Progress		
44	Vuyyuru	20	WtC Awarded	0		Guntur WtE		In Progress		
45	Guntur	363	WtCNG Planned	0		Guntur WtE		Established	80	90%
46	Mangalagiri - Tadepalle	70	WtC Planned	0		Guntur WtE		Established	16	90%
47	Ponnur	29	WtC Planned	0		Guntur WtE		Established	6	90%
48	Chilakaluripet	49	WtC Planned	0		Guntur WtE		Established	12	90%
49	Bapatla	34	WtCNG awarded	0		Guntur WtE		Established	8	90%
50	Repalle	25	WtC Awarded	0		Guntur WtE		Established	4	90%
51	Vinukonda	30	WtCNG awarded	0		Guntur WtE		In Progress		
52	Macherla	28	Existing WtC	0		Feasibility Study under progress		Established	6	90%
53	Kadapa	167	WtCNG Planned	0		Connected to Cement Factories	6	Established	40	90%
54	Dharmavaram	62	WtC Planned	0		RDF in progress		In Progress		

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
55	Kadiri	43	WtC Awarded	0		Connected to Cement Factories	1	Established	8	90%
56	Gooty	24	WtC Planned	0		RDF in progress		Established	4	90%
57	Pamidi	14	WtC Planned	0		RDF in progress		In Progress		
58	Hindupur	74	WtC Awarded	0		RDF in progress		In Progress		
59	Kurnool	224	WtCNG Planned	0		Connected to Cement Factories	2	In Progress		
60	Kalyandurgam	21	WtC Awarded	0		RDF in progress		Established	2	90%
61	Madakasira	12	WtC Awarded	0		RDF in progress		Established	2	90%
62	Machilipatnam	89	WtC Awarded	0		RDF Connected / Guntur WtE	3	Established	20	90%
63	Mydukur	22	WtC Planned	0		Connected to Cement Factories	1	In Progress		
64	Nandigama	22	WtCNG awarded	0		RDF Connected / Guntur WtE	1	In Progress		
65	Nandikotkur	23	WtC Planned	0		Connected to Cement Factories	1	Established	4	90%
66	Gudur K	14	WtC Planned	0		RDF in progress		In Progress		
67	Nandyal	98	WtCNG Planned	0		Connected to Cement Factories	3	In Progress		
68	Proddutur	79	WtCNG Planned	0		Connected to Cement Factories	2	In Progress		
69	Pulivendula	32	Existing WtC	18	85%	Connected to Cement Factories	2	Established	6	85%
70	Rajahmundry	168	WtCNG Planned	0		Connected to Cement Factories	3	Established	40	90%

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
71	Rajampeta	23	WtC Planned	0		Connected to Cement Factories	1	In Progress		
72	Rayachoti	44	WtC Planned	0		Connected to Cement Factories	2	Established	8	90%
73	Tadipatri	53	Existing WtC	29	90%	Connected to Cement Factories	2	Established	10	90%
74	Tirupati	208	Existing WtCNG	114	85%	Connected to Cement Factories	4	Established	45	85%
75	Ongole	123	WtCNG awarded	0		Guntur WtE		Established	30	90%
76	Chimakurthy	17	WtC Awarded	0		Guntur WtE		In Progress		
77	Addanki	20	WtC Awarded	0		Guntur WtE		Established	4	90%
78	Kandukur	28	WtC Awarded	0		Feasibility Study under progress		Established	6	90%
79	Kakinada	159	WtCNG Planned	0		Feasibility Study under progress		Established	35	90%
80	Vijayawada	507	Existing WtC	279	85%	RDF Connected / Guntur WtE	6	Established	150	85%
81	Gollaprolu	11	WtC Planned	0		Feasibility Study under progress		In Progress		
82	Pithapuram	25	WtC Planned	0		Feasibility Study under progress		Established	3	90%
83	Peddapuram	24	WtC Planned	0		Feasibility Study under progress		Established	3	90%
84	Samalkota	28	WtC Planned	0		Feasibility Study under progress		Established	4	90%

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
85	Yeleswaram	16	WtC Planned	0		Feasibility Study under progress		Established	2	90%
86	Ramachandrapuram	21	WtC Planned	0		Feasibility Study under progress		Established	2	90%
88	Mandapeta	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
88	Tuni	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%
89	Mummidivaram	12	WtC Awarded	0		Feasibility Study under progress		Established	2	90%
90	Amalapuram	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%
91	Eluru	106	WtCNG Planned	0		Feasibility Study under progress		Established	22	90%
92	Tadepalligudem	51	WtC Planned	0		Feasibility Study under progress		Established	8	90%
93	Tanuku	44	WtC Planned	0		Feasibility Study under progress		In Progress		
94	Palakollu	33	WtC Planned	0		Feasibility Study under progress		In Progress		
95	Narsapuram	29	WtC Planned	0		Feasibility Study under progress		Established	4	90%
96	Bhimavaram	69	WtC Planned	0		Feasibility Study under progress		Established	12	90%
97	Nidadavole	21	WtC Planned	0		Feasibility Study under progress		In Progress		

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
98	Kovvur	19	WtC Planned	0		Feasibility Study under progress		In Progress		
99	Jangareddy Gudem	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
100	Chittoor	92	WtCNG Planned	0		Feasibility Study under progress		Established	18	90%
101	SriKalahasti	39	WtC Planned	0		Feasibility Study under progress		Established	8	90%
102	Nagari	30	WtC Planned	0		Feasibility Study under progress		In Progress		
103	Puttur	26	WtC Planned	0		Feasibility Study under progress		In Progress		
104	Nellore	300	WtCNG Planned	0		Feasibility Study under progress		In Progress		
105	Venkatagiri	25	WtC Planned	0		Feasibility Study under progress		In Progress		
106	Yerraguntla	17	WtC Planned	0		Connected to Cement Factories	1	In Progress		
107	Naidupet	22	Tenders Evaluation in Process	0		Feasibility Study under progress		Established	4	90%
108	Atmakur N	15	Tenders Evaluation in Process	0		Feasibility Study under progress		In Progress		

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
109	Kavali	51	Tenders Evaluation in Process	0		Feasibility Study under progress		Established	10	90%
110	Akiveedu	11	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
111	Kondapalli	21	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
112	Dachepali	11	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
113	Gurazala	9	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
114	Darsi	12	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
115	Buchireddy Palem	12	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
116	Penukonda	10	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
117	Bethamcharla	14	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
118	Kamlapuram	7	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
119	Kupam	15	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
120	Y.S.R. - Tadegadapa	23	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
121	Chuintalapudi	4	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
122	Podili	6	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
123	Alluru	9	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
124	B.KothaKota	6	Tenders is in Process for establishing Integrated Solid Waste Management Projects under PPP Mode							
Total		6898								

VI. Bio-medical Waste Management:

- Total Bio-medical generation: 19.186 Tonnes/ day
- No. of Hospitals and Health Care Facilities: 11,230 Nos.

Status of Treatment Facility/ CBMWTF	:	Presently, there are 12 Nos. of Common Bio-medical Waste Treatment Facilities (CBMWTFs) in covering total 13 Districts in Andhra Pradesh for treatment and disposal of bio-medical waste as per the BMW Management Rules 2016.
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VII. Hazardous Waste Management:

- Total Hazardous Waste generation about: 5,65,832.59 TPA 2019-2020 as per hazardous waste inventory, 2019-20.
- No of industries generating Hazardous Waste: 2648 Nos as per Hazardous Waste inventory, 2019 -20.
- **For the month of August, 2021, the Quantity of Hazardous Waste Treated & Disposed is as follows:**
 - i) Utilizable waste is 15140.722 TPM (suitable to use as raw material or as alternative fuel viz. Co-processing in Cement Plants so as to conserve the resources),
 - ii) Recyclable waste is 160.96 TPM (suitable for recycling /recovery of material viz. oil reclamation units, lead and zinc recovery units).
 - iii) Incinerable waste is 318.895 TPM (not suitable for any recycling / reuse and having high calorific value i.e. > 2500 K cal/kg) and
 - iv) Land fillable waste is 15649 TPM (not suitable for any recycling / reuse and having low calorific value i.e. < 2500 K cal/kg) is reaching and treated at the TSDFs in Visakhapatnam and Nellore.
- **Details of on-going or proposed TSDF:**

Two TSDF are existing in the State of Andhra Pradesh

 - ✓ M/s Coastal Waste Management Project Unit-1, Parwada, Visakhapatnam.
 - ✓ M/s Coastal Waste Management Project Unit-2 a division of Mumbai Waste Management Limited, S.P.S.R. Nellore District.

VIII. Plastic Waste Management:

Total plastic waste generation	39,626 TPA (As per Annual Report for the F.Y. 2020-21).
Treatment / Measures adopted for reduction or management of plastic waste	<ul style="list-style-type: none"> The recyclable plastic waste generated is being sent to recycling units and the non-recyclable plastic waste is being sent to cement plants and utilizing for road construction in some ULBs. 18 Nos of recyclers registered with APPCB. Total recycling capacity is 17116 TPA. 29 ULBs tied up with nearby Cement Plants for co-incineration of non- recyclable plastic waste and 5123 MTs of Non-recyclable plastic waste was sent to cement plants for the F.Y 2020-21. The MA&UD and PR&RD Dept., informed that they have been conducting strict vigilance and surprise visits on those who store or use or sell or dispose plastic with less than 50 microns' thickness, for which 721 Task force teams were constituted for inspections and raids to control plastic sale and usage of less than 50 microns' thickness carry bags / films in the ULBs of A.P. About 240 tons of plastic carry bags were seized and Rs. 169 lakhs towards fine was collected.

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

Details of Faecal Sludge Treatment Plants:

No. of Completed FSTPs	:	2 (30 KLD)
No. of In-progress FSTPs	:	64 (950 KLD)
No. of FSTPs to be retendered	:	11 (175 KLD)
No. of FSTPs DPRs to be prepared	:	10

IX (A): Details of Completed FSTPs:

S.No.	Name of ULB	Capacity(in KLD)	Operational Status of FSTP
1	Narsapur	15	Operational
2	Rajam	15	Operational

IX (B): Details of In-Progress FSTPs:

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
1	Dhone	20	75 % of Work Completed , Oct- 21
2	Gooty	15	Mar-22
3	Jammalamadugu	15	Mar-22
4	Kadiri	25	Mar-22
5	Kalyanadurgam	10	Mar-22
6	Madakasira	5	Mar-22
7	Paamidi	10	Mar-22
8	Pulivendula	20	Mar-22
9	Puttaparthi	10	Mar-22
10	Rayachoti	25	Mar-22
11	Rayadurg	20	Mar-22
12	Allagadda	10	Mar-22
13	Atmakur (K)	15	Mar-22
14	Badvel	25	Mar-22
15	Gudur (K)	5	Mar-22
16	Mydukuru	15	Mar-22
17	Nandikotkur	15	Mar-22
18	Palamaneru	15	Ready for inauguration
19	Punganur	15	Mar-22
20	Rajampeta	15	Mar-22
21	Yerraguntla	10	Mar-22
22	Atmakur (N)	10	Mar-22
23	Giddalur	10	Mar-22
24	Gudur (N)	20	Mar-22
25	Kandukur	20	Mar-22
26	Kanigiri	15	Mar-22
27	Markapur	20	Sep-21
28	Nagari	20	Mar-22
29	Naidupet	15	Mar-22
30	Puttur	15	Mar-22
31	Sullurpeta	15	Mar-22
32	Venkatagiri	15	Mar-22
33	Addanki	10	Mar-22
34	Bapatla	25	35 % Wok Completed , Dec-21
35	Chimakurthy	10	Mar-22
36	Chirala	25	35 % Wok Completed , Dec-21
37	Macherla	15	Mar-22
38	Mangalagiri	25	Mar-22
39	Piduguralla	15	Mar-22

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
40	Ponnur	15	35 % Wok Completed , Dec-21
41	Repalle	15	Mar-22
42	Sattenapalli	15	Mar-22
43	Vinukonda	15	Ready for inauguration
44	Amalapuram	15	Mar-22
45	Gollaprolu	5	Mar-22
46	Kovvur	10	Mar-22
47	Mandapeta	15	Mar-22
48	Mummidivaram	10	Mar-22
49	Peddapuram	15	Mar-22
50	Pithapuram	15	Mar-22
51	Ramachandrapuram	15	Mar-22
52	Samalkota	15	Mar-22
53	Tuni	15	Mar-22
54	Yeleshwaram	10	Mar-22
55	Amudalavalasa	10	Mar-22
56	Bobbili	15	Ready for inauguration
57	Ichapuram	10	Mar-22
58	Narsipatnam	20	Mar-22
59	Nellimarla	10	Mar-22
60	Palakonda	10	Mar-22
61	Palasa-Kasibugga	15	Mar-22
62	Parvathipuram	15	Mar-22
63	Salur	15	Mar-22
64	Yelamanchili	15	Mar-22
Total		950	

IX (C) Details of FSTPs to be Retendered:

S.No	Name of the ULB	Capacity of Plant (KLD)
1	Jangareddigudem	15
2	Nidadavolu	15
3	Palacole	20
4	Pedana	10
5	Tadepalli	20
6	Tanuku	25
7	Vuyyuru	15
8	Jaggiahpetta	15
9	Nandigama	15
10	Nuzividu	15
11	Tiruvuru	10

IX (D) Details of FSTPs DPRs to be Prepared:

S.No	Name of ULB	Status of the project
1	Akiveedu	DPR to be prepared - Newly Constituted ULB
2	Kondapalli	DPR to be prepared - Newly Constituted ULB
3	Dachepali	DPR to be prepared - Newly Constituted ULB
4	Gurazala	DPR to be prepared - Newly Constituted ULB
5	Darsi	DPR to be prepared - Newly Constituted ULB
6	Buchireddy Palem	DPR to be prepared - Newly Constituted ULB
7	Penukonda	DPR to be prepared - Newly Constituted ULB
8	Bethamcharla	DPR to be prepared - Newly Constituted ULB
9	Kamlapuram	DPR to be prepared - Newly Constituted ULB
10	Kupam	DPR to be prepared - Newly Constituted ULB

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

- A total of 32 No's of outfall points of the major disposal drains have been identified which are contributing to River Pollution. All the above 32 No's of outfall points are provided with Meshes/Screens to prevent solid waste from falling in to the Rivers.

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

Commissioner & Director of Municipal Administration Appointment as a Nodal Officer for Polluted River stretches as per G.O.RT. No: 56

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

XIII. Latest water quality of polluted river, its tributaries, drains with flow details:

- APPCB has been monitoring the 5 polluted river stretches at 27 locations on monthly basis and the data is being uploaded in RRC Website <https://rrc.ap.gov.in/Views/Monitoring.aspx> every month. The monitoring of water quality data for the month of August, 2021 is enclosed.
- As per the analysis of samples collected at 27 locations in the month of August, 2021 the B.O.D value is less than 3.0 mg/lit. (Details enclosed)

XIV. Ground water regulation:

XV. Good irrigation practices being adopted by the State:

XVI. Rain Water Harvesting:

XVII. Demarcation of Floodplain and removal of illegal encroachments:

XVIII. Maintaining minimum e-flow of river:

- XIX.** Plantation activities along the rivers:
- XX.** Development of biodiversity park:
- XXI.** Reuse of Treated Water:
- XXII.** Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:
- XXIII.** Status of Preparation of Action Plan by the 13 Coastal States:
- XXIV.** Regulation of Mining Activities in the State/UT:
- XXV.** Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring.

Water quality status of polluted river stretches in Andhra Pradesh - 2021

I. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 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.

Parameter	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Standard		
														Class A	Class B	Class C
pH	4367	7.44	7.61	7.84	8.23	---	----	7.48	7.59					6.0 - 8.5	6.0 - 9.0	
	4359	7.50	6.85	7.07	6.96	----	----	8.24	7.71							
	0014	7.52	7.52	7.53	7.22	7.76	7.61	7.40	7.72							
	1218	7.36	7.75	7.08	7.31	7.87	7.67	7.42	7.47							
	2370	7.69	7.30	6.84	7.92	7.02	7.44	6.60	7.81							
	2371	7.05	7.19	6.97	7.90	7.78	7.25	6.75	7.60							
	1219	7.25	7.21	6.83	7.59	7.02	7.34	6.51	7.53							
	4365	7.22	7.42	7.22	7.5	7.38	7.83	7.27	7.46							
	4366	7.33	7.71	7.30	7.73	7.62	7.69	7.30	7.41							
	4358	7.57	6.95	7.52	7.49	7.38	7.75	7.57	7.58							
DO	4367	5.6	5.4	6.2	6.9	---	----	6.3	6.2					6.0	5.0	4.0
	4359	8.5	8.5	8.2	8.0	---	----	7.5	8.8							
	0014	6.0	7.9	6.7	6.0	6.6	7.5	6.7	6.8							
	1218	7.0	6.2	6.4	6.3	6.5	8.0	6.5	7.5							
	2370	8.4	8.0	6.8	6.6	6.6	7.0	7.6	7.5							
	2371	7.5	6.5	6.6	6.4	6.1	6.6	7.5	7.0							
	1219	7.2	7.8	8.5	6.9	6.8	6.4	7.0	7.6							
	4365	5.8	7.2	8.0	8.5	6.6	8.5	6.5	7.0							
	4366	5.4	7.0	7.0	7.6	6.5	7.0	6.0	6.0							
	4358	5.4	6.5	5.6	5.0	6.6	6.8	6.1	7.0							
BOD	4367	1.8	2.2	2.0	1.8	----	----	2.1	2.4					2.0	3.0	3.0
	4359	1.5	1.5	2.2	1.8	----	----	1.0	1.2							
	0014	1.8	2.2	1.9	1.8	1.7	2.2	1.5	1.5							
	1218	2.0	1.0	2.0	1.5	1.7	1.8	1.7	1.6							
	2370	1.4	1.4	2.6	2.2	2.0	1.8	2.0	2.0							
	2371	1.8	2.2	2.8	2.6	2.2	2.0	2.2	2.2							
	1219	2.0	1.6	1.4	1.8	1.6	1.8	1.6	2.2							
	4365	2.0	2.0	1.5	1.5	1.8	1.5	2.0	1.8							
	4366	2.6	2.3	2.0	2.0	2.4	2.2	2.4	2.2							
	4358	2.4	1.6	1.5	2.2	1.4	1.2	1.4	1.2							

Total Coliform	4367	150	150	120	120	---	---	150	150					50	500	5000
	4359	75	39	64	60	---	---	49	49							
	0014	120	120	120	120	120	93	120	93							
	1218	93	93	93	93	93	120	93	120							
	2370	150	120	120	120	120	93	120	120							
	2371	210	210	150	150	150	120	150	150							
	1219	210	240	120	120	150	150	150	150							
	4365	150	150	120	150	120	120	120	120							
	4366	210	210	210	240	150	150	150	150							
	4358	93	120	73	120	120	93	93	93							
Fecal Coliform	4367	15	9	9	9	---	---	15	15					---	500	---
	4359	4	4	4	4	---	---	4	4							
	0014	9	9	9	15	9	7	9	9							
	1218	7	7	7	7	4	9	4	9							
	2370	9	9	9	9	9	9	9	9							
	2371	15	20	15	15	15	15	15	11							
	1219	23	23	7	9	21	21	15	15							
	4365	15	11	9	15	9	9	7	9							
	4366	23	15	11	23	15	15	15	15							
	4358	7	7	4	9	11	7	7	7							
TDS	4367	420	220	444	324	---	---	358	268					500 - 2000		
	4359	120	88	84	84	---	---	92	96							
	0014	160	156	108	106	140	124	192	160							
	1218	156	148	102	98	120	120	120	152							
	2370	220	168	172	168	128	180	172	146							
	2371	252	228	204	202	144	198	188	160							
	1219	208	166	124	98	140	140	164	172							
	4365	1056	1884	2506	2153	2282	3160	2307	398							
		0	8	4	2	0	0	2								
	4366	2325	2357	3220	3466	2358	3186	2362	5048							
	6	2	8	8	0	4	0									
4358	1739	2203	3428	2936	1628	2572	2194	620								
	2	2	0	0	0	8	8									

Note:: (1) All values are expressed in mg/L except pH & Total Coliform value. Total 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.

2. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 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, 2021:

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1175	7.8	7.9	7.3	7.7	7.4	7.2	7.4	7.4					6.0 - 8.5	6.0 - 9.0	
	3083	7.7	7.4	7.6	7.7	7.7	7.5	7.9	7.3							
	4381	7.88	7.94	8.19	8.02	7.82	7.76	7.68	7.84							
	1786	7.27	7.30	8.04	7.48	7.66	7.34	8.07	7.93							
	1787	7.22	7.68	7.99	7.38	7.42	7.54	7.91	8.09							
	0025	7.76	7.80	7.92	7.42	7.56	7.46	8.11	7.97							
	4375	7.79	7.80	7.70	7.58	7.46	7.58	8.45	8.01							
	1782	7.30	7.80	7.82	7.90	7.92	7.83	7.51	7.32							

DO	1175	5.7	5.9	5.6	5.6	5.2	5.5	5.5	6.4					6.0	5.0	4.0
	3083	7.7	5.6	5.3	5.3	5.9	5.9	5.9	6.3							
	4381	7.3	7.1	7.2	7.1	7.2	7.3	7.1	7.3							
	1786	7.3	7.2	7.3	7.2	7.1	7.1	7.4	7.5							
	1787	7.1	7.2	7.3	7.2	7.3	7.2	7.4	7.1							
	0025	7.0	7.2	7.1	7.0	7.2	7.1	7.3	7.1							
	4375	7.0	7.1	7.1	7.1	7.2	7.1	7.2	7.1							
	1782	4.4	4.6	4.3	4.2	4.3	4.6	5.2	6.2							
BOD	1175	1.5	1.7	2.5	2.8	2.5	1.2	1.8	1.3					2.0	3.0	3.0
	3083	1.5	1.3	2.7	2.2	1.2	<1	1.5	1.1							
	4381	2.8	2.8	2.8	2.4	2.6	2.6	2.4	2.6							
	1786	2.6	2.4	2.6	2.4	2.6	2.2	2.6	2.6							
	1787	2.4	2.2	2.4	2.6	2.4	2.2	2.2	2.0							
	0025	2.2	2.4	2.6	2.8	2.6	2.4	2.6	2.2							
	4375	2.0	2.2	2.4	2.6	2.6	2.4	2.6	1.8							
	1782	2.6	2.8	2.6	2.8	2.8	2.4	2.8	2.8							
Total Coliform	1175	350	280	920	920	920	840	689	483					50	500	5000
	3083	250	220	1600	920	540	430	491	352							
	4381	120	120	150	75	75	120	150	120							
	1786	150	120	150	120	150	120	120	150							
	1787	93	120	150	120	150	120	150	120							
	0025	120	120	120	75	75	75	93	120							
	4375	130	120	93	93	93	75	120	93							
	1782	64	93	75	75	75	75	64	93							

Fecal Coliform	1175	76	81	350	240	430	350	235	145					-- -	500	---
	3083	81	76	920	350	280	280	154	193							
	4381	<3	3	3	3	3	3	3	3							
	1786	<3	3	3	3	3	3	3	3							
	1787	<3	3	3	3	3	3	3	3							
	0025	<3	3	3	3	3	3	3	3							
	4375	<3	3	3	3	3	3	3	3							
	1782	<3	3	3	3	3	3	3	3							
TDS	1175	372	428	445	764	623	648	658	186					500 - 2000		
	3083	386	418	389	419	432	376	442	192							
	4381	446	480	470	480	485	490	460	440							
	1786	416	450	540	528	540	526	516	413							
	1787	430	430	460	510	520	534	460	408							
	0025	374	380	418	498	510	442	516	390							
	4375	368	350	384	506	498	426	440	234							
	1782	25100	19000	23300	22400	22800	15380	11800	10400							

Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal Coliform. Total 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. High TDS values at Hamsaladeevi could be attributed due to the intrusion of backwaters of Bay of Bengal.

3. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 is as follows:

S. No.	Code	Location point
01	1785	Manthralayam, Kurnool Dist.
02	1174	Bhavapuram, Kurnool Dist.
03	4388	U/S of Kurnool town B/C with domestic sewage & A/c of Rayalaseema alkalies industries at Gondiparla, Kurnool.
04	4389	D/S of Kurnool town A/C with domestic sewage at Gondiparla, Kurnool.

Month-wise data of water quality of river Tungabhadra, 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1785	7.8	7.8	7.8	7.7	7.5	7.6	7.3	7.0					6.0 – 8.5	6.0 – 9.0	
	1174	7.6	7.3	7.7	7.9	7.8	7.9	7.3	7.6							
	4388	6.8	7.4	7.2	7.6	7.0	7.8	7.5	7.2							
	4389	7.1	7.1	6.9	7.6	7.1	7.6	7.6	6.8							
DO	1785	5.3	5.7	4.8	5.0	5.0	5.2	4.8	6.3					6.0	5.0	4.0
	1174	5.5	5.5	5.0	5.3	5.4	5.3	5.3	6.2							
	4388	5.3	4.5	4.3	5.5	4.1	4.3	4.6	6.2							
	4389	5.2	4.9	4.2	5.5	4.4	4.7	5.1	6.1							
BOD	1785	2.8	2.8	3.0	2.5	2.7	2.0	2.5	1.5					2.0	3.0	3.0
	1174	2.3	2.8	2.8	3	2.2	2.3	2.5	1.5							
	4388	2.3	2.7	3.0	1.8	3	2.5	2.8	1.3							
	4389	2.8	3.0	3.0	1.3	2.5	2.2	2.8	1.5							
Total Coliform	1785	540	430	430	350	540	920	866	408					50	500	5000
	1174	920	540	540	540	920	920	816	437							
	4388	430	540	920	920	1600	920	870	420							

	4389	540	920	920	540	920	1600	921	491							
Fecal Coliform	1785	210	130	170	130	240	350	454	110					---	500	---
	1174	170	180	220	210	280	430	368	124							
	4388	180	180	350	280	430	240	452	286							
	4389	140	210	430	220	250	350	510	229							
TDS	1785	636	812	724	454	508	714	712	152					500 - 2000		
	1174	738	898	1014	1185	946	1036	502	213							
	4388	1042	1120	1196	1325	1384	1120	523	228							
	4389	779	921	893	1095	1098	836	532	218							
Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal coliform. Total 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.																

4. River Nagavali:

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, Total Coliform, Fecal Coliform and TDS for the year, 2021 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.

Month-wise data of water quality of river Nagavali, 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	4351	7.86	7.30	7.24	7.97	7.66	6.66	8.48	7.58					6.0 – 8.5	6.0 – 9.0	
	1448	7.52	7.45	6.98	8.01	7.27	7.35	8.24	7.56							
	4346	8.28	7.62	7.39	8.82	7.33	7.06	7.56	7.36							
	4347	8.10	7.69	7.32	8.37	7.24	7.08	7.49	7.27							
DO	4351	6.0	6.7	6.7	6.2	5.8	6.0	5.8	6.6					6.0	5.0	4.0
	1448	5.9	6.5	8.1	6.5	7.5	6.5	6.5	7.0							
	4346	8.4	7.5	7.5	7.4	8.0	6.0	7.1	6.5							
	4347	6.4	7.2	7.0	7.0	7.5	6.0	6.8	6.0							
BOD	4351	1.3	1.7	1.4	2.1	2.0	1.8	2.2	2.5					2.0	3.0	3.0
	1448	1.9	1.9	1.4	2.0	1.7	1.6	1.9	1.8							
	4346	1.4	2.0	1.6	1.2	1.5	1.7	2.0	1.5							
	4347	1.9	2.2	1.8	1.4	1.8	2.0	2.3	1.8							
Total Coliform	4351	210	150	150	150	150	210	210	210					50	500	5000
	1448	120	120	93	120	120	150	120	120							
	4346	120	120	120	120	120	120	120	120							
	4347	150	150	210	150	150	150	150	150							
Fecal Coliform	4351	21	15	11	15	15	15	15	15					----	500	----
	1448	9	11	9	9	9	15	9	9							
	4346	7	9	7	7	9	9	9	9							
	4347	11	11	15	11	15	15	15	15							
TDS	4351	236	240	224	260	268	262	408	192					500-2000		
	1448	192	240	192	280	256	268	220	196							
	4346	252	224	240	272	232	252	228	220							
	4347	280	260	264	292	276	296	256	256							
Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal Coliform. Total Coliform & Fecal Coliform is expressed in MPN count / 100 ml.																
Remarks: BOD & Fecal coliform values found to within the standard limits stipulated for bathing at all the locations.																

5. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 is as follows:

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

Month-wise data of water quality of river Kundu, 2021

Parameters	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
													Class A	Class B	Class C
pH	7.5	7.6	7.3	7.9	7.8	7.7	7.8	7.4					6.0 – 8.5		6.0 – 9.0
DO	5.1	4.8	5.1	5.0	5.6	5.2	5.2	5.9					6.0	5.0	4.0
BOD	2.5	2.5	2.8	1.8	3.0	2.5	2.8	1.8					2.0	3.0	3.0
Total Coliform	920	540	920	1600	1600	1600	1203	594					50	500	5000
Fecal Coliform	350	280	240	920	350	430	483	376					---	500	---
TDS	446	486	512	706	746	862	648	294					500 - 2000		
Note: All values are expressed in mg/L except pH, Total Coliform & Fecal Coliform value. Total 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.															

CPCB Water Quality Criteria for Designated Best Use

Designated-best- use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection.	A	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 50 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 6 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 2mg/l or less.
Outdoor bathing (Organized)	B	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 500 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 5 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less.
Drinking Water Source after conventional treatment and disinfection.	C	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 5000 or less. • pH between 6 to 9 • Dissolved oxygen 4 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Propagation of Wild life and Fisheries.	D	<ul style="list-style-type: none"> • pH between 6.5 to 8.5 • Dissolved oxygen 4 mg/l or more. • Free Ammonia (as N) 1.2 mg/l or less • pH 9 between 6.0 to 8.5.
Irrigation, Industrial Cooling, Controlled Waste disposal.	E	<ul style="list-style-type: none"> • Electrical Conductivity at 25°C micro mhos/cm Max. 2250. • Sodium Absorption ratio Max. 26 • Boron Max.2 mg/l.
	Below -E	Not Meeting A, B, C, D & E Criteria.

GOVERNMENT OF ANDHRA PRADESH
MUNICIPAL ADMINISTRATION & URBAN DEVELOPMENT (UBS) DEPARTMENT

Letter No.1282446/UBS/2020

Dated: 24-08-2021

From
The Special Chief Secretary to Government,
MA & UD Department,
A.P. Secretariat,
Velagapudi,
Guntur District

To
The Secretary,
Ministry of Jal Sakti,
MoHUA.,
Government of India,
New Delhi.(w.e.)

Sir,

Sub:-MA & UD Department - National Green Tribunal – Orders of the
National Green Tribunal Principal Bench, New Delhi in OA
No.673/2018 - Monthly Progress Report for the month of July,
2021 -Furnished – Regarding.

Ref:-Orders of the National Green Tribunal Principal Bench, New Delhi
in OA No.673/2018, dated. 24.09.2020.

*** **

In compliance to the directions of the Hon'ble National Green Tribunal
Principal Bench, New Delhi in the reference cited, I am herewith enclose the Monthly
Progress Report in the prescribed format for the month of July, 2021 for taking
further necessary action.

Yours faithfully,

G. Sudha Rayo

For SPECIAL CHIEF SECRETARY TO GOVERNMENT



National Mission for Clean Ganga
Format for submission of Monthly Progress Report for the
month of JULY, 2021 in the NGT Matter OA No. 673 of 2018
(in compliance to NGT order dated 24.09.2020)

For the State of Andhra Pradesh

Overall status of the State:

- I. Total Urban Population : 1.5 Crore
- II. Estimated Sewage Generation (MLD) : 1503.20 MLD (120 ULB's)

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD) : 516.65 MLD (44No's)
- Present Gap in Treatment Capacity in MLD : 986.55 MLD
- Capacity of under construction STP's : 533.47 MLD
- STPs Under Tender : Nil
- No. of Operational STPs : 44 Nos
- No. of Non-complying STPs : Nil

III (A) Details of each existing STP in the State:

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Utilization capacity in MLD	Operational Status of STP	Compliance Status of STP
1	GVMC	Old town	May'2019	38.00	35.23	Operational	Complied
2		Appughar	26.09.2010	25.00	21.42	Operational	Complied
3		Mudasarlova	April'2008	13.00	9.65	Operational	Complied
4		Narava	Aug-01	54.00	22.36	Operational	Complied
5		Anakapalle	April'2018	15.00	7.55	Operational	Complied
6		Madinabagh		2.00	1.02	Operational	Complied
7		Yathapalem Colonies	April'2008	2.50	1.01	Operational	Complied
8		Gajuwaka	April'2008	0.50	0.23	Operational	Complied
9		Karnavanipalem	Dec' 2019	5.00	0.0	Operational	Complied
10		Mantripalem	April' 2008	1.00	0.31	Operational	Complied
11		Aganampudi	Dec' 2015	6.00	0.0	Operational	Complied
12		RathiCheruvu	Sep' 2019	2.00	0.65	Operational	Complied
13		Kommadi / Madhurawada	Aug' 2018	4.00	2.10	Operational	Complied
14		Bakkannapalem	Aug' 2011	1.00	0.36	Operational	Complied
15		Marikavalasa	Dec' 2012	2.00	1.15	Operational	Complied
16		Vambay Colony	Aug' 2011	3.00	1.38	Operational	Complied
17		YSR Nagar	Aug' 2011	2.00	1.30	Operational	Complied
18		Boyapalem	Aug' 2011	1.00	0.39	Operational	Complied
			Sub Total	177.00	106.11		

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Utilization capacity in MLD	Operational Status of STP	Compliance Status of STP
19	Rajamahendravaram	Hukumpeta	03.01.2009	30.00	30.0	Operational	Complied
20	Vijayawada	Ajith Singh Nagar-1	31.05.2011	40.00	39.52	Operational	Complied
21		Ajith Singh Nagar-2	31.05.2012	20.00	20.0	Operational	Complied
22		Ramalingeswar Nagar-1	30.06.2012	20.00	19.74	Operational	Complied
23		Ramalingeswar Nagar-2	20.10.2006	10.00	9.80	Operational	Complied
24		Autonagar -1	31.03.2005	10.00	9.70	Operational	Complied
25		Autonagar -2	31.12.2018	10.00	9.80	Operational	Complied
26		Jakkampudi	31.07.2017	20.00	13.50	Operational	Complied
			Sub Total	30.09.2018	130.00	122.06	
27	Tirupathi	Thukivakam		50.00	33.0	Operational	Complied
28	Kadapa	Nanapally	02.08.2012	20.00	10.0	Partly Operational	Complied
29	Pulivendula	Rotarypuram	25.01.2009	6.50	2.50	Partly Operational	Complied
30	Tadipatri	Gannevaripalle	10.10.2010	3.50	2.50	Operational	Complied
31		Gannevaripalle	10.10.2010	8.00	4.0	Operational	Complied
		Sub Total		11.50	6.50		Complied
32	Puttaparthi	1.Sai Nagar	20.7.2001	0.50	0.50	Operational	Complied
33		2. Gokulam	20.7.2001	0.50	0.0	Under Rehabilitation	Complied
34		3. Prasanthi Gram	20.7.2001	0.50	0.0	Under Rehabilitation	Complied
		Sub Total		1.50	0.50		Complied
35	Narsaraopeta	CPT Road	02.02.2018	15.55	8.50	Operational	Complied
36	Nellore	Janardhan Reddy Colony		5.00	5.0	Trail Run	Complied
37		Allepuram		55.00	0.0		
38		Drivers Colony		11.00	0.0		
		Sub Total		71.00	5.0		Complied
39	Kurnool	Jammichettu	12.03.2019	0.80	0.80	Operational	Complied
40		SankalBagh	12.03.2019	0.80	0.80	Operational	Complied
41		Tungabhadra PumpHouse	10.03.2018	0.80	0.80	Operational	Complied
		Sub Total		2.40	2.4		Complied
42	Tadepalli	Mahanadu-1	10.12.2018	0.20	0.20	Operational	Complied
43		Mahanadu-2	15.12.2018	0.20	0.20	Operational	Complied
44	Kondapalli	Security Colony		0.80	0.80	Operational	Complied
		Grand Total		516.65	327.77		

III (B) Details of Under Construction STPs in the State

S.No.	Location	Scheme Name	No. of STP	Capacity of the plant in MLD	Physical Progress in %	Completion Timeline
1	Yemmiganur	UIDSSMT	1	19.80	96%	August 2021
2	Srikakulam	AMRUT	1	10.00	45%	December 2021
3	Vizianagaram	AMRUT	1	5.00	55%	December 2021
4	GVMC	Smart City (Package-I)	1	54.00	84%	December 2021
5	Kakinada	AMRUT	1	5.00	39%	December 2021
6	Rajamahendravaram	AMRUT	1	5.00	12%	March 2022
7	Bhimavaram	AMRUT	1	5.00	42%	December 2021
8	Tadepalligudem	AMRUT	1	5.00	0%	Retenders are in Progress and work is Expected to be completed by December 2022
9	Eluru	AMRUT	1	5.00	36%	March 2022
10	Machilipatnam	AMRUT	1	5.00	46%	December 2021
11	Gudivada	AMRUT	1	5.00	42%	December 2021
12	Vijayawada	JNNURM	1	20.00	83%	December 2021
13	Tenali	AMRUT	1	10.00	35%	March 2022
		14 FC	1	2.00	30%	December 2021
14	Ongole	AMRUT	1	15.00	60%	December 2021
15	Chilakaluripeta	AMRUT	1	5.00	21%	March 2022
16	Kavali	AMRUT	1	15.00	77%	December 2021
17	Nellore	HUDCO	1	20.00	85%	December 2021
			1	14.00	0%	Due to existing site dispute new site to be identified. Upon finalization of the new site work will be completed in one year time.
18	Tirupati	Smart City	1	25.00	25%	March 2022
19	Srikalahasti	AMRUT	1	7.00	11%	March 2022
20	Madanapalle	AMRUT	1	5.00	20%	March 2022
21	Kadapa	AMRUT	1	20.00	0%	Re -Tenders are invited and Upon finalization of the new site work will be completed in

						one year time.
22	Anantapuramu	AMRUT	1	10.00	0%	Re Tenders area in process and work is expected to be completed by December 2022.
23	Dharmavaram	AMRUT	1	15.00	0%	Re Tenders area in process and work is expected to be completed by December 2022.
24	Guntakal	AMRUT	1	8.00	0%	December 2022
25	Kurnool	AMRUT	1	2.00	50%	December 2021
		AMRUT	1	10.00	10%	March 2022
26	Nandyal	AMRUT	1	10.00	15%	March 2022
27	Adoni	AMRUT	1	5.00	24%	March 2022
28	Guntur	OTSFA	4	123.00	51%	Jun 2022
29	Pulivendula	PLAN	1	10.00	30%	December 2022
			1	1.50		
			7 (0.5MLD x 7nos)	3.50		
			1	0.02		
			1	0.07		
			1	0.08		
			1	0.10		
30	Rayachoti	PLAN	6	22.40	0 %	August 2023
31	Kondapalli	CSR Funds	1	2.00	10 %	July 2023
32	Kanigiri	AIIB	1	6.00	0 %	August 2023
33	Sullurpet	AIIB	3	8.00	0 %	August 2023
34	Allagadda	AIIB	1	5.00	0 %	August 2023
35	Nandikotkur	AIIB	1	5.00	0 %	August 2023
36	Madakasira	AIIB	1	5.00	0 %	August 2023
Grand Total			61	533.47		

III (C) Details of Proposed STPs in the State

Phase	Description	No. of ULBs	Proposed Total STP capacities (MLD)	Cost of Total STPs (crores)
I	Municipal Corporations	16	539.00	1617.00
II	ULBs having population above 1 Lakhs	18	221.00	663.00
III	ULBs having Population ranging between 75,000 to 1 Lakh	8	43.00	129.00
IV	ULBs having Population less than 75,000	78	499	1497.00
V	Taxes and others etc @20%			781.20
	Total		1302.00	4687.20

III D) STATUS OF STPs UNDER RIVER STRETCHES:

- Total Estimated Sewage Generation (in MLD) 2020 :302.00 MLD
- Existing no. of STP with Treatment Capacity (in MLD) :162.40 MLD
- Present Gap in Treatment Capacity (in MLD) : 139.60 MLD
- Capacity of under Construction STPs (in MLD) : 57.00 MLD
- Gap after completion of ongoing Projects : 82.60 MLD

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-IV RIVERS						
1.	Tungabhadra	Kurnool	2.40MLD	10 MLD	10 %	DPR prepared for Rs.304.00 Crores proposed additional STPs of 78 MLD to satisfy the demand for the year 2035 and submitted to the Govt. of Andhra Pradesh for according administrative sanction. 1. At Tungabhadra Pump house-5.00 MLD 2. At Roja Dargha -3.00 MLD 3. At Roja Dargha - I -2.00 MLD 4. At Sri Chaitanya School - II- 5.00 MLD 5. At Saibaba Temple -3.00 MLD 6. At Nagasai Temple -2.00 MLD 7. At Nagasai Temple - I -3.00 MLD 8. At Law College -2.00 MLD 9. At RaghavendraMatam - 5.00 MLD 10. At NagulaKatta- 8.00 MLD 11. At JammiChettu-40.00MLD Total - 78.00 MLD
				2 MLD	50%	
2	Kundu	Nandyal	0.00	10 MLD	15%	Comprehensive DPR on UGD scheme is prepared for Rs.85.00 Cr with STPs capacity of 26 (21 + 5) MLD to cater the needs of 2035 year. DPR submitted to the Govt. for according Administrative Sanction.

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-V RIVERS						

1.	Nagavali	Srikakulam	0.00	10 MLD	45%	Comprehensive proposal for providing UGD scheme for 2035 is prepared for an amount of Rs.190.36 Cr with an additional STP capacity of 12 MLD.
2.	Godavari	Rajamahendravaram	30.00	5 MLD	12%	DPR on Comprehensive UGD scheme prepared with additional STP's of capacity 72.37 MLD for an amount of Rs.404.00 Cr. RMC has attended the remarks and resubmitted the proposals. Now it is proposed to take up the works with an estimated cost of Rs.107.00 crores in the first year.
3.	Krishna	Vijayawada	130.00	20 MLD	83%	DPR is prepared for Rs.246.38 Cr for providing Comprehensive UGD scheme to meet the 2035 demand including up-gradation of 2 STPs of 30.00 MLD capacity.

IV. Details of Industrial Pollution:

- No. of industries in the State: 9941 No's
- No. of water polluting industries in the State: 1432 No's
- Quantity of effluent generated from the industries in MLD: 4505.152 MLD

Effluent Break-Up Details:

- Once through Cooling water: 3826.13 MLD
- Trade effluents: 375.36 MLD
- cooling tower/Boiler blow down: 254.12 MLD
- Domestic waste water: 49.54 MLD

From the total waste water generation from the industries, major portion is once through cooling water (about 85%) and temperature to be maintained for discharge of once through cooling system is not more than 5⁰C temperature of intake water.

- ✓ From the Cooling tower/Boiler blow down (about 5.6%).

V. Solid Waste Management:

- ✓ The remaining about 9.4% is generated from Trade effluent & Domestic Discharges.
- ✓ APPCB is not permitting to discharge industrial / trade effluents into the rivers.
- Number of industrial units having ETPs: 1093 No's

- Total number of Urban Local Bodies: **124** and their Population: **1.5** Crore
- Current Municipal Solid Waste Generation: **6898** TPD. for 124 ULBs (14 Newly Constituted ULBs – These ULBs have not yet developed urban Dynamics).
- 2 Waste to Energy Projects covering 13 ULBs are in progress with an installed capacity of 3200 TPD (30 MW),
- 31 Wet Waste Projects covering 34 ULBs treating 1430 TPD with an installed capacity of 1600 TPD are existing.
- 18 Wet Waste Projects covering 18 ULBs are in progress with an installed capacity of 420 TPD.
- Tenders were called for selection of agencies to establish ISWM projects in 72 ULBs under PPP mode. Evaluation of Bids are in Process.
- 76 Material Recovery facilities covering 76 ULBs treating 810 TPD with an installed capacity of 1000 TPD Existing.
- 48 Material Recovery facilities covering 48 ULBs are in progress with an installed capacity of 500 TPD.
- 3 Construction and Demolition waste processing plants in Greater Visakhapatnam Municipal Corporation, Vijayawada Municipal Corporation and Tirupati Municipal Corporation treating 100 TPD with an installed capacity of 200 TPD are existing.
- The Source Segregation in the State is 82.16 % and capacity utilization of the treatment units is the same percentage. Ward Secretariats and volunteer system established and unique in the State are ensuring 99 % door to door collection.
- Total no. of wards: 3946 No. of wards having door to door collection service: 3906. No. of wards practicing segregation at source: 3246
- 114 Dumpsites with an area of 1000 acres are existing in the state. Out of which remediation of 4 dumpsites in 4 ULBs (Visakhapatnam, Vijayawada, Tirupati and Tanuku) are under progress.
- Quantification of Dumpsites in ULBs with 1 Lakh above Population is completed and the ULBs were Instructed to take up the tender process for remediation of dumpsites.
- No Dumpsites of legacy waste are within 1km buffer of both sides of the rivers in the State.

Status of ULB wise Management of Solid Waste:

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
1	Amudalavalasa	19	Existing WtC	10	85%	Vizag WtE		Established	4	85%
2	Ichchapuram	18	Existing WtC	10	85%	Feasibility Study under progress		Established	2	85%
3	Palasa-kasibugga	28	Existing WtC	15	80%	Feasibility Study under progress		In Progress		
4	Rajam	21	Existing WtC	12	80%	Vizag WtE		Established	4	85%
5	Bobbili	29	Existing WtC	16	90%	Vizag WtE		Established	8	85%
6	Salur	24	Existing WtC	13	90%	Vizag WtE		Established	6	90%
7	GVMC	918	Existing WtC	505	85%	Vizag WtE		Established	300	85%
8	Narsipatnam	30	Existing WtC	17	80%	Vizag WtE		Established	8	85%
9	Yellamanchali	23	Existing WtC	13	80%	Vizag WtE		Established	4	85%
10	Adoni	81	Existing WtCNG	45	80%	Connected to Cement Factories	3	Established	20	85%
11	Nuzivid	29	Existing WtC	16	80%	Guntur WtE		In Progress		
12	Thiruvuru	17	Existing WtCNG	9	80%	Guntur WtE		Established	2	85%
13	Tenali	80	Existing WtC	44	90%	Guntur WtE		Established	20	90%
14	Sattenpalle	28	WtCNG - Pidugurala	15	85%	Guntur WtE		Established	6	85%
15	Narsaraopet	57	WtCNG - Pidugurala	31	85%	Guntur WtE		Established	16	85%
16	Piduguralla	31	Existing WtCNG	17	85%	Guntur WtE		In Progress		
17	Allagadda	20	Existing WtC	11	85%	Connected to Cement Factories	1	Established	4	85%
18	Rayadurgam	30	Existing WtC	17	85%	RDF inprogress		Established	6	85%
19	Puttaparty	15	Existing WtC	8	85%	RDF inprogress		Established	2	85%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
20	Yemmiganur	46	WtCNG - Adoni	25	85%	RDF inprogress		Established	10	85%
21	Anantapur	131	WtCNG Planned	0		Connected to Cement Factories	8	Established	35	90%
22	Atmakur K	22	WtC Awarded	0		Connected to Cement Factories	1	Established	4	90%
23	Badvel	35	WtC Planned	0		Connected to Cement Factories	2	In Progress		
24	Dhone	29	WtC Planned	0		Connected to Cement Factories	2	Established	6	90%
25	Markapur	35	Existing WtC	19	80%	Feasibility Study under progress		Established	8	85%
26	Giddalur	19	Existing WtC	10	85%	RDF inprogress		Established	4	85%
27	Kanigiri	22	Existing WtC	12	85%	Feasibility Study under progress		Established	4	85%
28	Chirala	42	Existing WtC	23	90%	Guntur WtE		Established	9	90%
29	Gudivada	58	WtCNG awarded	0		RDF Connected / Guntur WtE	3	Established	14	90%
30	Palamaneru	25	Existing WtC	14	85%	Feasibility Study under progress		In Progress		
31	Punganur	27	Existing WtC	15	80%	Feasibility Study under progress		Established	6	85%
32	Madanpalle	67	Existing WtCNG	37	85%	RDF inprogress		In Progress		
33	Sullurpet	22	Existing WtC	12	80%	Feasibility Study under progress		Established	4	85%
34	Srikakulam	65	WtCNG Planned	0		Vizag WtE		Established	16	90%
35	Palakonda	16	WtC Awarded	0		Vizag WtE		In Progress		
36	Vizianagaram	119	WtCNG Planned	0		Vizag WtE		Established	30	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
37	Parvathipuram	26	WtC Awarded	0		Vizag WtE		In Progress		
38	Nellimarla	14	WtC Planned	0		Vizag WtE		Established	2	90%
39	Gudur N	36	WtC Planned	0		Connected to Cement Factories	2	In Progress		
40	Guntakal	62	WtC Planned	0		Connected to Cement Factories	2	Established	14	90%
41	Jaggaiahpet	26	WtCNG awarded	0		RDF Connected / Guntur WtE	1	In Progress		
42	Jammalamadugu	22	Existing WtC	12	80%	Connected to Cement Factories	1	In Progress		
43	Pedana	16	WtC Awarded	0		Guntur WtE		In Progress		
44	Vuyyuru	20	WtC Awarded	0		Guntur WtE		In Progress		
45	Guntur	363	WtCNG Planned	0		Guntur WtE		Established	80	90%
46	Mangalagiri - Tadepalle	70	WtC Planned	0		Guntur WtE		Established	16	90%
47	Ponnur	29	WtC Planned	0		Guntur WtE		Established	6	90%
48	Chilakaluripet	49	WtC Planned	0		Guntur WtE		Established	12	90%
49	Bapatla	34	WtCNG awarded	0		Guntur WtE		Established	8	90%
50	Repalle	25	WtC Awarded	0		Guntur WtE		Established	4	90%
51	Vinukonda	30	WtCNG awarded	0		Guntur WtE		InProgress		
52	Macherla	28	WtC Awarded	0		Feasibility Study under progress		Established	6	90%
53	Kadapa	167	WtCNG Planned	0		Connected to Cement Factories	6	Established	40	90%
54	Dharmavaram	62	WtC Planned	0		RDF in progress		In Progress		
55	Kadiri	43	WtC Awarded	0		Connected to Cement Factories	1	Established	8	90%
56	Gooty	24	WtC Planned	0		RDF in progress		Established	4	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
57	Pamidi	14	WtC Planned	0						
58	Hindupur	74	WtC Awarded	0		RDF inprogress		In Progress		
59	Kurnool	224	WtCNG Planned	0		RDF inprogress		In Progress		
60	Kalyandurgam	21	WtC Awarded	0		Connected to Cement Factories	2	In Progress		
61	Madakasira	12	WtC Awarded	0		RDF inprogress		Established	2	90%
62	Machilipatnam	89	WtC Awarded	0		RDF inprogress		Established	2	90%
63	Mydukur	22	WtC Planned	0		RDF Connected / Guntur WtE	3	Established	20	90%
64	Nandigama	22	WtCNG awarded	0		Connected to Cement Factories	1	In Progress		
65	Nandikotkur	23	WtC Planned	0		RDF Connected / Guntur WtE	1	In Progress		
66	Gudur K	14	WtC Planned	0		Connected to Cement Factories	1	Established	4	90%
67	Nandyal	98	WtCNG Planned	0		RDF inprogress		In Progress		
68	Proddutur	79	WtCNG Planned	0		Connected to Cement Factories	3	In Progress		
69	Pulivendula	32	Existing WtC	18	85%	Connected to Cement Factories	2	In Progress		
70	Rajahmundry	168	WtCNG Planned	0		Connected to Cement Factories	2	Established	6	85%
71	Rajampeta	23	WtC Planned	0		Connected to Cement Factories	3	Established	40	90%
72	Rayachoti	44	WtC Planned	0		Connected to Cement Factories	1	In Progress		
						Connected to Cement Factories	2	Established	8	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
73	Tadipatri	53	Existing WtC	29	90%	Connected to Cement Factories	2	Established	10	90%
74	Tirupati	208	Existing WtCNG	114	85%	Connected to Cement Factories	4	Established	45	85%
75	Ongole	123	WtCNG awarded	0		Guntur WtE		Established	30	90%
76	Chimakurthy	17	WtC Awarded	0		Guntur WtE		In Progress		
77	Addanki	20	WtC Awarded	0		Guntur WtE		Established	4	90%
78	Kandukur	28	WtC Awarded	0		Feasibility Study under progress		Established	6	90%
79	Kakinada	159	WtCNG Planned	0		Feasibility Study under progress		Established	35	90%
80	Vijayawada	507	Existing WtC	279	85%	RDF Connected / Guntur WtE	6	Established	150	85%
81	Gollaprolu	11	WtC Planned	0		Feasibility Study under progress		In Progress		
82	Pithapuram	25	WtC Planned	0		Feasibility Study under progress		Established	3	90%
83	Peddapuram	24	WtC Planned	0		Feasibility Study under progress		Established	3	90%
84	Samalkota	28	WtC Planned	0		Feasibility Study under progress		Established	4	90%
85	Yeleswaram	16	WtC Planned	0		Feasibility Study under progress		Established	2	90%
86	Ramachandrapuram	21	WtC Planned	0		Feasibility Study under progress		Established	2	90%
88	Mandapeta	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
88	Tuni	26	WtC Awarded	0		Feasibility Study		Established	3	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
						under progress				
89	Mummidivaram	12	WtC Awarded	0		Feasibility Study under progress		Established	2	90%
90	Amalapuram	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%
91	Eluru	106	WtCNG Planned	0		Feasibility Study under progress		Established	22	90%
92	Tadepalligudem	51	WtC Planned	0		Feasibility Study under progress		Established	8	90%
93	Tanuku	44	WtC Planned	0		Feasibility Study under progress		In Progress		
94	Palakollu	33	WtC Planned	0		Feasibility Study under progress		In Progress		
95	Narsapuram	29	WtC Planned	0		Feasibility Study under progress		Established	4	90%
96	Bhimavaram	69	WtC Planned	0		Feasibility Study under progress		Established	12	90%
97	Nidadavole	21	WtC Planned	0		Feasibility Study under progress		In Progress		
98	Kovvur	19	WtC Planned	0		Feasibility Study under progress		In Progress		
99	JangareddyGudem	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
100	Chittoor	92	WtCNG Planned	0		Feasibility Study under progress		Established	18	90%
101	SriKalahasti	39	WtC Planned	0		Feasibility Study under progress		Established	8	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
102	Nagari	30	WtC Planned	0		Feasibility Study under progress		In Progress		
103	Puttur	26	WtC Planned	0		Feasibility Study under progress		In Progress		
104	Nellore	300	WtCNG Planned	0		Feasibility Study under progress		In Progress		
105	Venkatagiri	25	WtC Planned	0		Feasibility Study under progress		In Progress		
106	Yerraguntla	17	WtC Planned	0		Connected to Cement Factories	1	In Progress		
107	Naidupet	22	WtC Planned	0		Feasibility Study under progress		Established	4	90%
108	Atmakur N	15	WtC Planned	0		Feasibility Study under progress		In Progress		
109	Kavali	51	WtC Planned	0		Feasibility Study under progress		Established	10	90%
110	Akiveedu	11	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
111	Kondapalli	21	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
112	Dachepali	11	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
113	Gurazala	9	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
114	Darsi	12	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
115	BuchireddyPale m	12	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
116	Penukonda	10	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
117	Bethamcharla	14	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
118	Kamlapuram	7	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
119	Kupam	15	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
120	Y.S.R. -	23	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
	Tadegadapa									
121	Chuintalapudi	4								
122	Podili	6								
123	Alluru	9								
124	B.KothaKota	6								
	Total	6898								

VI. Bio-medical Waste Management:

- Total Bio-medical generation: 20.146Tonnes/ day
- No. of Hospitals and Health Care Facilities: 11,191 Nos.

Status of Treatment Facility/ CBMWTF	:	Presently, there are 12 Nos. of Common Bio-medical Waste Treatment Facilities (CBMWTFs) in covering total 13 Districts in Andhra Pradesh for treatment and disposal of bio-medical waste as per the BMW Management Rules 2016.
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VII. Hazardous Waste Management:

- Total Hazardous Waste generation about: 5.65,832.59 TPA 2019-2020 as per hazardous waste inventory, 2019-20.
- No of industries generating Hazardous Waste: 2648 Nos as per Hazardous Waste inventory, 2019 -20.
- **For the month of July, 2021, the Quantity of Hazardous Waste Treated & Disposed is as follows:**

- i) Utilizable waste is 13272.033TPM (suitable to use as raw material or as alternative fuel viz. Co-processing in Cement Plants so as to conserve the resources).
- ii) Recyclable waste is 120,332 TPM (suitable for recycling /recovery of material viz. oil reclamation units, lead and zinc recovery units).
- iii) Incinerable waste is 331.07 TPM (not suitable for any recycling / reuse and having high calorific value i.e. > 2500 K cal/kg) and
- iv) Land fillable waste is 1250.52 TPM (not suitable for any recycling / reuse and having low calorific value i.e. < 2500 K cal/kg) is reaching and treated at the TSDFs in Visakhapatnam and Nellore.

- **Details of on-going or proposed TSDF:**

Two TSDF are existing in the State of Andhra Pradesh

- ✓ M/s Coastal Waste Management Project Unit-1, Parwada, Visakhapatnam.
- ✓ M/s Coastal Waste Management Project Unit-2 a division of Mumbai Waste Management Limited, S.P.S.R. Nellore District.

VIII. Plastic Waste Management:

Total plastic waste generation	39,626 TPA (As per Annual Report for the F.Y. 2020-21).
Treatment / Measures adopted for reduction or management of plastic waste	<ul style="list-style-type: none"> The recyclable plastic waste generated is being sent to recycling units and the non-recyclable plastic waste is being sent to cement plants and utilizing for road construction in some ULBs. 18 Nos of recyclers registered with APPCB. Total recycling capacity is 17116 TPA. 29 ULBs tied up with nearby Cement Plants for co-incineration of non- recyclable plastic waste and 5123 MTs of Non-recyclable plastic waste was sent to cement plants for the F.Y 2020-21. The MA&UD and PR&RD Dept., informed that they have been conducting strict vigilance and surprise visits on those who store or use or sell or dispose plastic with less than 50 microns' thickness, for which 721 Task force teams were constituted for inspections and raids to control plastic sale and usage of less than 50 microns' thickness carry bags / films in the ULBs of A.P. About 240 tons of plastic carry bags were seized and Rs. 169 lakhs towards fine was collected.

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

Details of Faecal Sludge Treatment Plants:

No. of Completed FSTPs	:	2 (30 KLD)
No. of In-progress FSTPs	:	64 (950 KLD)
No. of FSTPs to be retendered	:	11 (175 KLD)
No. of FSTPs DPRs to be prepared	:	10

IX(A): Details of Completed FSTPs:

S.No.	Name of ULB	Capacity(in KLD)	Operational Status of FSTP
1	Narsapur	15	Operational
2	Rajam	15	Operational

IX(B): Details of In-Progress FSTPs:

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
1	Dhone	20	70 % of Work Completed , Sep - 21
2	Gooty	15	Mar-22
3	Jammalamadugu	15	Mar-22
4	Kadiri	25	Mar-22
5	Kalyanadurgam	10	Mar-22
6	Madakasira	5	Mar-22
7	Paamidi	10	Mar-22
8	Pulivendula	20	Mar-22
9	Puttaparthi	10	Mar-22
10	Rayachoti	25	Mar-22
11	Rayadurg	20	Mar-22
12	Allagadda	10	Mar-22
13	Atmakur (K)	15	Mar-22
14	Badvel	25	Mar-22
15	Gudur (K)	5	Mar-22
16	Mydukuru	15	Mar-22
17	Nandikotkur	15	Mar-22
18	Palamaneru	15	Ready for inauguration
19	Punganur	15	Mar-22
20	Rajampeta	15	Mar-22
21	Yerraguntla	10	Mar-22
22	Atmakur (N)	10	Mar-22
23	Giddalur	10	Mar-22
24	Gudur (N)	20	Mar-22
25	Kandukur	20	Mar-22
26	Kanigiri	15	Mar-22
27	Markapur	20	Sep-21
28	Nagari	20	Mar-22
29	Naidupet	15	Mar-22
30	Puttur	15	Mar-22
31	Sullurpeta	15	Mar-22
32	Venkatagiri	15	Mar-22
33	Addanki	10	Mar-22
34	Bapatla	25	30 % Wok Completed , Dec-21
35	Chimakurthy	10	Mar-22
36	Chirala	25	30 % Wok Completed , Dec-21
37	Macherla	15	Mar-22
38	Mangalagiri	25	Mar-22
39	Piduguralla	15	Mar-22
40	Ponnur	15	30 % Wok Completed , Dec-21
41	Repalle	15	Mar-22

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
42	Sattenapalli	15	Mar-22
43	Vinukonda	15	Ready for inauguration
44	Amalapuram	15	Mar-22
45	Gollaprolu	5	Mar-22
46	Kovvur	10	Mar-22
47	Mandapeta	15	Mar-22
48	Mummidivaram	10	Mar-22
49	Peddapuram	15	Mar-22
50	Pithapuram	15	Mar-22
51	Ramachandrapuram	15	Mar-22
52	Samalkota	15	Mar-22
53	Tuni	15	Mar-22
54	Yeleshwaram	10	Mar-22
55	Amudalavalasa	10	Mar-22
56	Bobbili	15	Ready for inauguration
57	Ichapuram	10	Mar-22
58	Narsipatnam	20	Mar-22
59	Nellimarla	10	Mar-22
60	Palakonda	10	Mar-22
61	Palasa-Kasibugga	15	Mar-22
62	Parvathipuram	15	Mar-22
63	Salur	15	Mar-22
64	Yelamanchili	15	Mar-22
Total		950	

IX (C) Details of FSTPs to be Retendered:

S.No	Name of the ULB	Capacity of Plant (KLD)
1	Jangareddigudem	15
2	Nidadavolu	15
3	Palacole	20
4	Pedana	10
5	Tadepalli	20
6	Tanuku	25
7	Vuyyuru	15
8	Jaggaihpeta	15
9	Nandigama	15
10	Nuzividu	15
11	Tiruvuru	10

IX(D) Details of FSTPs DPRs to be Prepared:

S.No	Name of ULB	Status of the project
1	Akiveedu	DPR to be prepared - Newly Constituted ULB
2	Kondapalli	DPR to be prepared - Newly Constituted ULB
3	Dachepali	DPR to be prepared - Newly Constituted ULB
4	Gurazala	DPR to be prepared - Newly Constituted ULB
5	Darsi	DPR to be prepared - Newly Constituted ULB
6	BuchireddyPalem	DPR to be prepared - Newly Constituted ULB
7	Penukonda	DPR to be prepared - Newly Constituted ULB
8	Bethamcharla	DPR to be prepared - Newly Constituted ULB
9	Kamlapuram	DPR to be prepared - Newly Constituted ULB
10	Kupam	DPR to be prepared - Newly Constituted ULB

- X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment:
- A total of 32 No's of outfall points of the major disposal drains have been identified which are contributing to River Pollution. All the above 32 No's of outfall points are provided with Meshes/Screens to prevent solid waste from falling in to the Rivers.
- XI. **Details of Nodal Officer appointed by Chief Secretary in the State/UT:**
Commissioner & Director of Municipal Administration Appointment as a Nodal Officer for Polluted River stretches as per G.O.RT. No: 56
- XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:
- XIII. **Latest water quality of polluted river, its tributaries, drains with flow details:**
- APPCB has been monitoring the 5 polluted river stretches at 27 locations on monthly basis and the data is being uploaded in RRC Website <https://rrc.ap.gov.in/Views/Monitoring.aspx> every month. **The monitoring of water quality data for the month of July, 2021 is enclosed.**
 - **As per the analysis of samples collected at 27 locations in the month of July, 2021 the B.O.D value is less than 3.0 mg/lit. (Details enclosed)**
- XIV. Ground water regulation:
- XV. Good irrigation practices being adopted by the State:
- XVI. Rain Water Harvesting:
- XVII. Demarcation of Floodplain and removal of illegal encroachments:
- XVIII. Maintaining minimum e-flow of river:
- XIX. Plantation activities along the rivers:
- XX. Development of biodiversity park:

- XXI.** Reuse of Treated Water:
- XXII.** Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:
- XXIII.** Status of Preparation of Action Plan by the 13 Coastal States:
- XXIV.** Regulation of Mining Activities in the State/UT:
- XXV.** Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring.

Water Quality Status of Polluted River Stretches in Andhra Pradesh - 2021

1. 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, Total Coliform, 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, 2021

Parameter	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Standard		
														Class A	Class B	Class C
pH	4367	7.44	7.61	7.84	8.23	---	----	7.48						6.0 - 8.5	6.0 - 9.0	
	4359	7.50	6.85	7.07	6.96	----	----	8.24								
	0014	7.52	7.52	7.53	7.22	7.76	7.61	7.40								
	1218	7.36	7.75	7.08	7.31	7.87	7.67	7.42								
	2370	7.69	7.30	6.84	7.92	7.02	7.44	6.60								
	2371	7.05	7.19	6.97	7.90	7.78	7.25	6.75								
	1219	7.25	7.21	6.83	7.59	7.02	7.34	6.51								
	4365	7.22	7.42	7.22	7.5	7.38	7.83	7.27								
	4366	7.33	7.71	7.30	7.73	7.62	7.69	7.30								
	4358	7.57	6.95	7.52	7.49	7.38	7.75	7.57								
DO	4367	5.6	5.4	6.2	6.9	---	----	6.3						6.0	5.0	4.0
	4359	8.5	8.5	8.2	8.0	---	----	7.5								
	0014	6.0	7.9	6.7	6.0	6.6	7.5	6.7								
	1218	7.0	6.2	6.4	6.3	6.5	8.0	6.5								
	2370	8.4	8.0	6.8	6.6	6.6	7.0	7.6								
	2371	7.5	6.5	6.6	6.4	6.1	6.6	7.5								
	1219	7.2	7.8	8.5	6.9	6.8	6.4	7.0								
	4365	5.8	7.2	8.0	8.5	6.6	8.5	6.5								
	4366	5.4	7.0	7.0	7.6	6.5	7.0	6.0								
	4358	5.4	6.5	5.6	5.0	6.6	6.8	6.1								
BOD	4367	1.8	2.2	2.0	1.8	----	----	2.1						2.0	3.0	3.0
	4359	1.5	1.5	2.2	1.8	----	----	1.0								
	0014	1.8	2.2	1.9	1.8	1.7	2.2	1.5								
	1218	2.0	1.0	2.0	1.5	1.7	1.8	1.7								
	2370	1.4	1.4	2.6	2.2	2.0	1.8	2.0								
	2371	1.8	2.2	2.8	2.6	2.2	2.0	2.2								
	1219	2.0	1.6	1.4	1.8	1.6	1.8	1.6								
	4365	2.0	2.0	1.5	1.5	1.8	1.5	2.0								
	4366	2.6	2.3	2.0	2.0	2.4	2.2	2.4								
	4358	2.4	1.6	1.5	2.2	1.4	1.2	1.4								

Total Coliform	4367	150	150	120	120	---	----	150						50	500	5000
	4359	75	39	64	60	---	----	49								
	0014	120	120	120	120	120	93	120								
	1218	93	93	93	93	93	120	93								
	2370	150	120	120	120	120	93	120								
	2371	210	210	150	150	150	120	150								
	1219	210	240	120	120	150	150	150								
	4365	150	150	120	150	120	120	120								
	4366	210	210	210	240	150	150	150								
	4358	93	120	73	120	120	93	93								
Fecal Coliform	4367	15	9	9	9	---	----	15					---	500	---	
	4359	4	4	4	4	---	----	4								
	0014	9	9	9	15	9	7	9								
	1218	7	7	7	7	4	9	4								
	2370	9	9	9	9	9	9	9								
	2371	15	20	15	15	15	15	15								
	1219	23	23	7	9	21	21	15								
	4365	15	11	9	15	9	9	7								
	4366	23	15	11	23	15	15	15								
	4358	7	7	4	9	11	7	7								
TDS	4367	420	220	444	324	---	----	358					500 - 2000			
	4359	120	88	84	84	---	----	92								
	0014	160	156	108	106	140	124	192								
	1218	156	148	102	98	120	120	120								
	2370	220	168	172	168	128	180	172								
	2371	252	228	204	202	144	198	188								
	1219	208	166	124	98	140	140	164								
	4365	10560	18848	25064	21532	22820	31600	23072								
	4366	23256	23572	32208	34668	23580	31864	23620								
	4358	17392	22032	34280	29360	16280	25728	21948								
Note: (I) All values are expressed in mg/l, except pH & Total Coliform value. Total 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 except at U/S & D/S of Narsapuram town. High TDS values at Narsapuram & GMC Balayogi bridge, Goyalanka could be attributed to the intrusion of backwaters of Bay of Bengal.																

NOTE: Code No's 4359 & 4367 sample was not collected due to COVID-19.

2. 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, Total Coliform, Fecal Coliform and TDS for the year, 2020 is as follows:

S. No.	Code	Location point
01	1175	Sangameswaram, Kurnool Dist.
02	3083	Srisailem, 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, 2021:

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1175	7.8	7.9	7.3	7.7	7.4	7.2	7.4						6.0 - 8.5	6.0 - 9.0	
	3083	7.7	7.4	7.6	7.7	7.7	7.5	7.9								
	4381	7.88	7.94	8.19	8.02	7.82	7.76	7.68								
	1786	7.27	7.30	8.04	7.48	7.66	7.34	8.07								
	1787	7.22	7.68	7.99	7.38	7.42	7.54	7.91								
	0025	7.76	7.80	7.92	7.42	7.56	7.46	8.11								
	4375	7.79	7.80	7.70	7.58	7.46	7.58	8.45								
	1782	7.30	7.80	7.82	7.90	7.92	7.83	7.51								

DO	1175	5.7	5.9	5.6	5.6	5.2	5.5	5.5						6.0	5.0	4.0
	3083	7.7	5.6	5.3	5.3	5.9	5.9	5.9								
	4381	7.3	7.1	7.2	7.1	7.2	7.3	7.1								
	1786	7.3	7.2	7.3	7.2	7.1	7.1	7.4								
	1787	7.1	7.2	7.3	7.2	7.3	7.2	7.4								
	0025	7.0	7.2	7.1	7.0	7.2	7.1	7.3								
	4375	7.0	7.1	7.1	7.1	7.2	7.1	7.2								
	1782	4.4	4.6	4.3	4.2	4.3	4.6	5.2								
BOD	1175	1.5	1.7	2.5	2.8	2.5	1.2	1.8						2.0	3.0	3.0
	3083	1.5	1.3	2.7	2.2	1.2	<1	1.5								
	4381	2.8	2.8	2.8	2.4	2.6	2.6	2.4								
	1786	2.6	2.4	2.6	2.4	2.6	2.2	2.6								
	1787	2.4	2.2	2.4	2.6	2.4	2.2	2.2								
	0025	2.2	2.4	2.6	2.8	2.6	2.4	2.6								
	4375	2.0	2.2	2.4	2.6	2.6	2.4	2.6								
	1782	2.6	2.8	2.6	2.8	2.8	2.4	2.8								
Total Coliform	1175	350	280	920	920	920	840	689						50	500	5000
	3083	250	220	1600	920	540	430	491								
	4381	120	120	150	75	75	120	150								
	1786	150	120	150	120	150	120	120								
	1787	93	120	150	120	150	120	150								
	0025	120	120	120	75	75	75	93								
	4375	130	120	93	93	93	75	120								
	1782	64	93	75	75	75	75	64								

3. 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, Total Coliform, 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	U/S of Kurnool town B/C with domestic sewage & A/c of Rayalaseema alkalies industries at Gondiparla, Kurnool.
04	4389	D/S of Kurnool town A/C with domestic sewage at Gondiparla, Kurnool.

Month-wise data of water quality of river Tungabhadra, 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1785	7.8	7.8	7.8	7.7	7.5	7.6	7.3						6.0 – 8.5	6.0 – 9.0	
	1174	7.6	7.3	7.7	7.9	7.8	7.9	7.3								
	4388	6.8	7.4	7.2	7.6	7.0	7.8	7.5								
	4389	7.1	7.1	6.9	7.6	7.1	7.6	7.6								
DO	1785	5.3	5.7	4.8	5.0	5.0	5.2	4.8						6.0	5.0	4.0
	1174	5.5	5.5	5.0	5.3	5.4	5.3	5.3								
	4388	5.3	4.5	4.3	5.5	4.1	4.3	4.6								
	4389	5.2	4.9	4.2	5.5	4.4	4.7	5.1								
BOD	1785	2.8	2.8	3.0	2.5	2.7	2.0	2.5						2.0	3.0	3.0
	1174	2.3	2.8	2.8	3	2.2	2.3	2.5								
	4388	2.3	2.7	3.0	1.8	3	2.5	2.8								
	4389	2.8	3.0	3.0	1.3	2.5	2.2	2.8								
Total	1785	540	430	430	350	540	920	866						50	500	5000

Month-wise data of water quality of river Nagavali 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard			
														Class A	Class B	Class C	
pH	4351	7.86	7.30	7.24	7.97	7.66	6.66	8.48							6.0 – 8.5	6.0 – 9.0	
	1448	7.52	7.45	6.98	8.01	7.27	7.35	8.24									
	4346	8.28	7.62	7.39	8.82	7.33	7.06	7.56									
	4347	8.10	7.69	7.32	8.37	7.24	7.08	7.49									
DO	4351	6.0	6.7	6.7	6.2	5.8	6.0	5.8							6.0	5.0	4.0
	1448	5.9	6.5	8.1	6.5	7.5	6.5	6.5									
	4346	8.4	7.5	7.5	7.4	8.0	6.0	7.1									
	4347	6.4	7.2	7.0	7.0	7.5	6.0	6.8									
BOD	4351	1.3	1.7	1.4	2.1	2.0	1.8	2.2							2.0	3.0	3.0
	1448	1.9	1.9	1.4	2.0	1.7	1.6	1.9									
	4346	1.4	2.0	1.6	1.2	1.5	1.7	2.0									
	4347	1.9	2.2	1.8	1.4	1.8	2.0	2.3									
Total Coliform	4351	210	150	150	150	150	210	210							50	500	5000
	1448	120	120	93	120	120	150	120									
	4346	120	120	120	120	120	120	120									
	4347	150	150	210	150	150	150	150									
Fecal Coliform	4351	21	15	11	15	15	15	15							----	500	----
	1448	9	11	9	9	9	15	9									
	4346	7	9	7	7	9	9	9									
	4347	11	11	15	11	15	15	15									
TDS	4351	236	240	224	260	268	262	408							500-2000		
	1448	192	240	192	280	256	268	220									
	4346	252	224	240	272	232	252	228									
	4347	280	260	264	292	276	296	256									
Note: All values are expressed in mg/L except pH. Total Coliform value & Fecal Coliform. Total Coliform & Fecal Coliform is expressed in MPN count / 100 ml.																	
Remarks: BOD & Fecal coliform values found to within the standard limits stipulated for bathing at all the locations.																	

5. 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, Total Coliform, 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, 2021

Parameters	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard			
													Class A	Class B	Class C	
pH	7.5	7.6	7.3	7.9	7.8	7.7	7.8							6.0 – 8.5		6.0 – 9.0
DO	5.1	4.8	5.1	5.0	5.6	5.2	5.2							6.0	5.0	4.0
BOD	2.5	2.5	2.8	1.8	3.0	2.5	2.8							2.0	3.0	3.0
Total Coliform	920	540	920	1600	1600	1600	1203							50	500	5000
Fecal Coliform	350	280	240	920	350	430	483							---	500	---
TDS	446	486	512	706	746	862	648							500 - 2000		

Note: All values are expressed in mg/L except pH, Total Coliform & Fecal Coliform value. Total 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.

CPCB Water Quality Criteria for Designated Best Use

Designated-best- use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection.	A	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 50 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 6 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 2mg/l or less.
Outdoor bathing (Organized)	B	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 500 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 5 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less.
Drinking Water Source after conventional treatment and disinfection.	C	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 5000 or less. • pH between 6 to 9 • Dissolved oxygen 4 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Propagation of Wild life and Fisheries.	D	<ul style="list-style-type: none"> • pH between 6.5 to 8.5 • Dissolved oxygen 4 mg/l or more. • Free Ammonia (as N) 1.2 mg/l or less • pH 9 between 6.0 to 8.5.
Irrigation, Industrial Cooling, Controlled Waste disposal.	E	<ul style="list-style-type: none"> • Electrical Conductivity at 25°C micro mhos/cm Max. 2250. • Sodium Absorption ratio Max. 26 • Boron Max.2 mg/l.
	Below -E	Not Meeting A, B, C, D & E Criteria.

GOVERNMENT OF ANDHRA PRADESH
MUNICIPAL ADMINISTRATION & URBAN DEVELOPMENT (UBS) DEPARTMENT

Letter No.1282446/UBS/2020

Dated: 04-08-2021

From
The Special Chief Secretary to Government,
MA & UD Department,
A.P. Secretariat,
Velagapudi,
Guntur District

To
The Secretary,
Ministry of Jal Sakti,
MoHUA.,
Government of India,
New Delhi.(w.e.)

Sir,

Sub:-MA & UD Department - National Green Tribunal – Orders of the
National Green Tribunal Principal Bench, New Delhi in OA
No.673/2018 - Monthly Progress Report for the month of June,
2021 -Furnished – Regarding.

Ref:-Orders of the National Green Tribunal Principal Bench, New Delhi
in OA No.673/2018, dated. 24.09.2020.

*** **

In compliance to the directions of the Hon'ble National Green Tribunal
Principal Bench, New Delhi in the reference cited, I am herewith enclose the Monthly
Progress Report in the prescribed format for the month of June, 2021 for taking
further necessary action.

Yours faithfully,

G. Sathya Raju

For SPECIAL CHIEF SECRETARY TO GOVERNMENT



National Mission for Clean Ganga
Format for submission of Monthly Progress Report for the
month of JUNE, 2021 in the NGT Matter OA No. 673 of 2018
(in compliance to NGT order dated 24.09.2020)

For the State of Andhra Pradesh

Overall status of the State:

- I. Total Urban Population : 1.5 Crore
 II. Estimated Sewage Generation (MLD) : 1503.20 MLD (120 ULB's)

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD) : 515.85 MLD (43No's)
- Present Gap in Treatment Capacity in MLD : 987.35 MLD
- Capacity of under construction STP's : 480.07 MLD
- STPs under tender : 51.40 MLD
- No. of Operational STPs : 43 Nos
- No. of Non-complying STPs : Nil

III (A) Details of each existing STP in the State

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Utilization capacity in MLD	Operational Status of STP	Compliance Status of STP
1	GVMC	Old town	May'2019	38.00	35.23	Operational	Complied
2		Appughar	26.09.2010	25.00	21.42	Operational	Complied
3		Mudasarlova	April'2008	13.00	9.65	Operational	Complied
4		Narava	Aug-01	54.00	22.36	Operational	Complied
5		Anakapalle	April'2018	15.00	7.55	Operational	Complied
6		Madinabagh		2.00	1.02	Operational	Complied
7		Yathapalem Colonies	April'2008	2.50	1.01	Operational	Complied
8		Gajuwaka	April'2008	0.50	0.23	Operational	Complied
9		Karnavanipalem	Dec' 2019	5.00	0.0	Operational	Complied
10		Mantripalem	April' 2008	1.00	0.31	Operational	Complied
11		Aganampudi	Dec' 2015	6.00	0.0	Operational	Complied
12		Rathi Cheruvu	Sep' 2019	2.00	0.65	Operational	Complied
13		Kommadi / Madhurawada	Aug' 2018	4.00	2.10	Operational	Complied
14		Bakkannapalem	Aug' 2011	1.00	0.36	Operational	Complied
15		Marikavalasa	Dec' 2012	2.00	1.15	Operational	Complied
16		Vambay Colony	Aug' 2011	3.00	1.38	Operational	Complied
17		YSR Nagar	Aug' 2011	2.00	1.30	Operational	Complied
18		Boyapalem	Aug' 2011	1.00	0.39	Operational	Complied
			Sub Total	177.00	106.11		

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Utilization capacity in MLD	Operational Status of STP	Compliance Status of STP
19	Rajamahendravaram	Hukumpeta	03.01.2009	30.00	30.0	Operational	Complied
20	Vijayawada	Ajith Singh Nagar-1	31.05.2011	40.00	39.52	Operational	Complied
21		Ajith Singh Nagar-2	31.05.2012	20.00	20.0	Operational	Complied
22		Ramalingeswar Nagar-1	30.06.2012	20.00	19.74	Operational	Complied
23		Ramalingeswar Nagar-2	20.10.2006	10.00	9.80	Operational	Complied
24		Autonagar -1	31.03.2005	10.00	9.70	Operational	Complied
25		Autonagar -2	31.12.2018	10.00	9.80	Operational	Complied
26		Jakkampudi	31.07.2017	20.00	13.50	Operational	Complied
			Sub Total	130.00	122.06		Complied
27	Tirupathi	Thukivakam	30.09.2018	50.00	33.0	Operational	Complied
28	Kadapa	Nanapally	02.08.2012	20.00	10.0	Partly Operational	Complied
29	Pulivendula	Rotarypuram	25.01.2009	6.50	2.50	Partly Operational	Complied
30	Tadipatri	Gannevaripalle	10.10.2010	3.50	2.50	Operational	Complied
31		Gannevaripalle	10.10.2010	8.00	4.0	Operational	Complied
			Sub Total	11.50	6.50		Complied
32	Puttaparthi	1.Sai Nagar	20.7.2001	0.50	0.50	Operational	Complied
33		2. Gokulam	20.7.2001	0.50	0.0	Under Rehabilitation	Complied
34		3. Prasanthi Gram	20.7.2001	0.50	0.0	Under Rehabilitation	Complied
			Sub Total	1.50	0.50		Complied
35	Narsaraopeta	CPT Road	02.02.2018	15.55	8.50	Operational	Complied
36	Nellore	Janardhan Reddy Colony		5.00	5.0	Trail Run	Complied
37		Allepuram		55.00	0.0		
38		Drivers Colony		11.00	0.0		
			Sub Total	71.00	5.0		Complied
39	Kurnool	Jammichettu	12.03.2019	0.80	0.80	Operational	Complied
40		Sankal Bagh	12.03.2019	0.80	0.80	Operational	Complied
41		Tungabhadra PumpHouse	10.03.2018	0.80	0.80	Operational	Complied
			Sub Total	2.40	2.4		Complied
42	Tadepalli	Mahanadu-1	10.12.2018	0.20	0.20	Operational	Complied
43		Mahanadu-2	15.12.2018	0.20	0.20	Operational	Complied
			Grand Total	515.85	326.97		

III (B) Details of under construction STPs in the State

S. No.	Location	Scheme Name	No. of STP	Capacity of the plant in MLD	Physical Progress in %	Completion Timeline
1	Yemmiganur	UIDSSMT	1	19.80	96%	August 2021
2	Srikakulam	AMRUT	1	10.00	45%	December 2021
3	Vizianagaram	AMRUT	1	5.00	55%	December 2021
4	GVMC	Smart City (Package-1)	1	54.00	78%	December 2021
5	Kakinada	AMRUT	1	5.00	39%	December 2021
6	Rajamahendravaram	AMRUT	1	5.00	12%	March 2022
7	Bhimavaram	AMRUT	1	5.00	42%	December 2021
8	Tadepalligudem	AMRUT	1	5.00	0%	Retenders are in Progress and work is Expected to be completed by December 2022
9	Eluru	AMRUT	1	5.00	36%	March 2022
10	Machilipatnam	AMRUT	1	5.00	46%	December 2021
11	Gudivada	AMRUT	1	5.00	42%	December 2021
12	Vijayawada	JNNURM	1	20.00	83%	December 2021
13	Tenali	AMRUT	1	10.00	35%	March 2022
		14 FC	1	2.00	30%	December 2021
14	Ongole	AMRUT	1	15.00	60%	December 2021
15	Chilakaluripeta	AMRUT	1	5.00	21%	March 2022
16	Kavali	AMRUT	1	15.00	77%	December 2021
17	Nellore	HUDCO	1	20.00	85%	December 2021
			1	14.00	0%	Due to existing site dispute new site to be identified. Upon finalization of the new site work will be completed in one year time.
18	Tirupati	Smart City	1	25.00	25%	March 2022
19	Srikalahasti	AMRUT	1	7.00	11%	March 2022
20	Madanapalle	AMRUT	1	5.00	20%	March 2022
21	Kadapa	AMRUT	1	20.00	0%	Re Tenders are invited and Upon finalization of the new site work will be completed in one year time.
22	Anantapuramu	AMRUT	1	10.00	0%	Re Tenders area in process and work is expected to be completed by December 2022.
23	Dharmavaram	AMRUT	1	15.00	0%	Re Tenders area in process and work is expected to be completed by December 2022.
24	Guntakal	AMRUT	1	8.00	0%	December 2022
25	Kurnool	AMRUT	1	2.00	50%	December 2021

		AMRUT	1	10.00	10%	March 2022
26	Nandyal	AMRUT	1	10.00	10%	March 2022
27	Adoni	AMRUT	1	5.00	20%	March 2022
28	Guntur	OTSFA	4	123.00	51%	Jun 2022
29	Pulivendula	PLAN	1	10.00	25 %	December 2022
			1	1.50		
			7 (0.5M LD x 7nos)	3.50		
			1	0.02		
			1	0.07		
			1	0.08		
			1	0.10		
Grand Total			46	480.07		

III (C) Details of Proposed STPs in the State

Phase	Description	No. of ULBs	Proposed Total STP capacities (MLD)	Cost of Total STPs (crores)
I	Municipal Corporations	16	539.00	1617.00
II	ULBs having population above 1 Lakhs	18	221.00	663.00
III	ULBs having Population ranging between 75,000 to 1 Lakh	8	43.00	129.00
IV	ULBs having Population less than 75,000	78	499	1497.00
V	Taxes and others etc @20%			781.20
Total			1302.00	4687.20

III D) Details of STPs Under Tendering:

S. No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1	Kanigiri	6.00	Bids Finalized and LOA Issued	Two years after date of award of the work
2	Sullurpet	8.00		
3	Allagadda	5.00		
4	Nandikotkur	5.00		
5	Madakasira	5.00		
6	Rayachoti	22.40	Bids Finalized and LOA Issued	
Total		51.40		

III E) STATUS OF STPs UNDER RIVER STRETCHES:

- Total Estimated Sewage Generation (in MLD) 2020 : 302.00 MLD
- Existing no. of STP with Treatment Capacity (in MLD) : 162.40 MLD
- Present Gap in Treatment Capacity (in MLD) : 139.60 MLD
- Capacity of under Construction STPs (in MLD) : 57.00 MLD

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-IV RIVERS						
1.	Tungabhadra	Kurnool	2.40 MLD	10 MLD	10 %	<p>DPR prepared for Rs.304.00 Crores proposed additional STPs of 78 MLD to satisfy the demand for the year 2035 and submitted to the Govt. of Andhra Pradesh for according administrative sanction.</p> <p>1. At Tungabhadra Pump house-5.00 MLD 2. At RojaDargha -3.00 MLD 3. At RojaDargha – I -2.00 MLD 4. At Sri Chaitanya School – II- 5.00 MLD 5. At Saibaba Temple -3.00 MLD 6. At Nagasai Temple -2.00 MLD 7. At Nagasai Temple – I -3.00 MLD 8. At Law College -2.00 MLD 9. At Raghavendra Matam - 5.00 MLD 10. At Nagula Katta - 8.00 MLD 11. At JammiChettu - <u>40.00MLD</u> Total - <u>78.00 MLD</u></p>
				2 MLD	50%	
2	Kundu	Nandyal	0.00	10 MLD	10%	<p>Comprehensive DPR on UGD scheme is prepared for Rs.85.00 Cr with STPs capacity of 26 (21 + 5) MLD to cater the needs of 2035 year. DPR submitted to the Govt. for according Administrative Sanction.</p>

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-V RIVERS						
1.	Nagavali	Srikakulam	0.00	10 MLD	45%	Comprehensive proposal for providing UGD scheme for 2035 is prepared for an amount of Rs.190.36 Cr with an additional STP capacity of 12 MLD.
2.	Godavari	Rajamahendravaram	30.00	5 MLD	12 %	DPR on Comprehensive UGD scheme prepared with additional STP's of capacity 72.37 MLD for an amount of Rs.404.00 Cr. RMC has attended the remarks and resubmitted the proposals. Now it is proposed to take up the works with an estimated cost of Rs.107.00 crores in the first year.
3.	Krishna	Vijayawada	130.00	20 MLD	83%	DPR is prepared for Rs.246.38 Cr for providing Comprehensive UGD scheme to meet the 2035 demand including up-gradation of 2 STPs of 30.00 MLD capacity.

IV. Details of Industrial Pollution:

- No. of industries in the State: 9941 No's
- No. of water polluting industries in the State: 1432 No's
- Quantity of effluent generated from the industries in MLD: 4505.152 MLD

Effluent Break-Up Details:

- Once through Cooling water: 3826.13 MLD
- Trade effluents: 375.36 MLD
- cooling tower/Boiler blow down: 254.12 MLD
- Domestic waste water: 49.54 MLD

From the total waste water generation from the industries, major portion is once through cooling water (about 85%) and temperature to be maintained for

discharge of once through cooling system is not more than 5⁰C temperature of intake water.

- ✓ From the Cooling tower/Boiler blow down (about 5.6%).
 - ✓ The remaining about 9.4% is generated from Trade effluent & Domestic Discharges.
 - ✓ APPCB is not permitting to discharge industrial / trade effluents into the rivers.
- Number of industrial units having ETPs: 1092 No's
 - Number of industrial units connected to CETP: 340 No's
 - i. Existing: 1092 no's ETPs
 - ii. Under construction: 01
 - iii. Proposed: 01
 - **Compliance status of the ETPs:**
 - ✓ APPCB is regularly monitoring the compliance status of ETPs and action is being initiated for non-compliance industries.
 - Number and total capacity of CETPs (details of existing/ under construction / proposed)
 - i. Existing: 7 No's with total capacity of 34.47 MLD
 - ii. Under construction: 1 no's
 - 1 MLD at Menakur, Nellore District
 - iii. Proposed: 3 no's
 - 1.5 MLD at Atchuthapuram SEZ, Visakhapatnam
 - 1.5 MLD at Nakkapalli, Visakhapatnam.
 - 1.2 MLD at Chittoor District

• **Status of compliance and operation of the CETPs**

S. No.	Name and Address of the CETP & contact person	Design capacity	Current Operating capacity	Type and No. of member units	Compliance status
1.	Brandix India Apparel City Private Limited. APSEZ, Achatapuram Pudimadaka Road, Visakhapatnam.	20 MLD	*4 MLD	Textile park- 14 units	Complied *In Brandix India Apparel City, textile industries were not established as anticipated. Hence effluent generation is less.
2.	RamkyPharma City (India) Ltd. JN PharmaCity, Parawada Mandal, Visakhapatnam.	8.5 MLD	5.0 MLD	Pharmaceutical & Bulk drugs- 92 units	Complied
3.	Kondapally Envirotech Pvt. Ltd., (KEPL), IDA, Kondapalli (V), Ibrahimpatnam (M), Krishna District.	0.2 MLD	0.06MLD	Pharmaceutical & Bulk drugs- 14 units	Complied
4.	Vijayawada Auto Cluster Development Company, Industrial Estate, Auto Nagar, Vijayawada.	0.2 MLD	0.04 MLD	Food beverages, Herbal pharma, Oil solvents & lubricants - 35 units.	Complied
5.	Machilipatnam Imitation Jewellery Park Pvt. Ltd., Jewellery Park, Pothepalli, Machilipatnam.	0.07 MLD	0.002 MLD	Electro Plating - 48 Units	Complied
6.	Nagari Dyeing Owners Association, Chinthalapatteda (V), Nagari (M), Chittoor District.	4 MLD	0.8 MLD	Manual Dyeing units - 105 units	Complied
7.	Achuthapuram Effluent Treatment Plant, Achatapuram Visakhapatnam.	1.5 MLD	0.4 MLD	Pharmaceutical & Bulk drugs- 20 units	Complied

V. Solid Waste Management:

- Total number of Urban Local Bodies: **125** and their Population: **1.5** Crore
- Current Municipal Solid Waste Generation: **6898** TPD. for 124 ULBs (14 Newly Constituted ULBs – These ULBs have not yet developed urban Dynamics).
- 2 Waste to Energy Projects covering 13 ULBs are in progress with an installed capacity of 3200 TPD (30 MW).
- 31 Wet Waste Projects covering 34 ULBs treating 1430 TPD with an installed capacity of 1600 TPD are existing.
- 18 Wet Waste Projects covering 18 ULBs are in progress with an installed capacity of 420 TPD.
- Tenders were called for selection of agencies to establish ISWM projects in 72 ULBs under PPP mode.
- 76 Material Recovery facilities covering 76 ULBs treating 810 TPD with an installed capacity of 1000 TPD Existing.
- 48 Material Recovery facilities covering 48 ULBs are in progress with an installed capacity of 500 TPD.
- 3 Construction and Demolition waste processing plants in Greater Visakhapatnam Municipal Corporation, Vijayawada Municipal Corporation and Tirupati Municipal Corporation treating 100 TPD with an installed capacity of 200 TPD are existing.
- The Source Segregation in the State is 82.16 % and capacity utilization of the treatment units is the same percentage, Ward Secretariats and volunteer system established and unique in the State are ensuring 99 % door to door collection.
- Total no. of wards: 3634. No. of wards having door to door collection service: 3946. No. of wards practicing segregation at source: 3246
- 114 Dumpsites with an area of 1000 acres are existing in the state. Out of which remediation of 4 dumpsites in 4 ULBs (Visakhapatnam, Vijayawada, Tirupati and Tanuku) are under progress.
- No Dumpsites of legacy waste are within 1km buffer of both sides of the rivers in the State.

Status of ULB wise Management of Solid Waste:

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
1	Amudalavalasa	19	Existing WtC	10	85%	Vizag WtE		Established	4	85%
2	Ichchapuram	18	Existing WtC	10	85%	Feasibility Study under progress		Established	2	85%
3	Palasa-kasibugga	28	Existing WtC	15	80%	Feasibility Study under progress		In Progress		
4	Rajam	21	Existing WtC	12	80%	Vizag WtE		Established	4	85%
5	Bobbili	29	Existing WtC	16	90%	Vizag WtE		Established	8	85%
6	Salur	24	Existing WtC	13	90%	Vizag WtE		Established	6	90%
7	GVMC	918	Existing WtC	505	85%	Vizag WtE		Established	300	85%
8	Narsipatnam	30	Existing WtC	17	80%	Vizag WtE		Established	8	85%
9	Yellamanchali	23	Existing WtC	13	80%	Vizag WtE		Established	4	85%
10	Adoni	81	Existing WtCNG	45	80%	Connected to Cement Factories	3	Established	20	85%
11	Nuzivid	29	Existing WtC	16	80%	Guntur WtE		In Progress		
12	Thiruvuru	17	Existing WtCNG	9	80%	Guntur WtE		Established	2	85%
13	Tenali	80	Existing WtC	44	90%	Guntur WtE		Established	20	90%
14	Sattenpalle	28	WtCNG - Piduguralla	15	85%	Guntur WtE		Established	6	85%
15	Narsaraopet	57	WtCNG - Piduguralla	31	85%	Guntur WtE		Established	16	85%
16	Piduguralla	31	Existing WtCNG	17	85%	Guntur WtE		In Progress		
17	Allagadda	20	Existing WtC	11	85%	Connected to Cement Factories	1	Established	4	85%
18	Rayadurgam	30	Existing WtC	17	85%	RDF in progress		Established	6	85%
19	Puttaparty	15	Existing WtC	8	85%	RDF in progress		Established	2	85%

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
20	Yemmiganur	46	WtCNG - Adoni	25	85%	RDF in progress		Established	10	85%
21	Anantapur	131	WtCNG Planned	0		Connected to Cement Factories	8	Established	35	90%
22	Atmakur K	22	WtC Awarded	0		Connected to Cement Factories	1	Established	4	90%
23	Badvel	35	WtC Planned	0		Connected to Cement Factories	2	In Progress		
24	Dhone	29	WtC Planned	0		Connected to Cement Factories	2	Established	6	90%
25	Markapur	35	Existing WtC	19	80%	Feasibility Study under progress		Established	8	85%
26	Giddalur	19	Existing WtC	10	85%	RDF in progress		Established	4	85%
27	Kanigiri	22	Existing WtC	12	85%	Feasibility Study under progress		Established	4	85%
28	Chirala	42	Existing WtC	23	90%	Guntur WtE		Established	9	90%
29	Gudivada	58	WtCNG awarded	0		RDF Connected / Guntur WtE	3	Established	14	90%
30	Palamaneru	25	Existing WtC	14	85%	Feasibility Study under progress		In Progress		
31	Punganur	27	Existing WtC	15	80%	Feasibility Study under progress		Established	6	85%
32	Madanpalle	67	Existing WtCNG	37	85%	RDF in progress		In Progress		
33	Sullurpet	22	Existing WtC	12	80%	Feasibility Study under progress		Established	4	85%
34	Srikakulam	65	WtCNG Planned	0		Vizag WtE		Established	16	90%
35	Palakonda	16	WtC Awarded	0		Vizag WtE		In Progress		
36	Vizianagaram	119	WtCNG Planned	0		Vizag WtE		Established	30	90%

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
37	Parvathipuram	26	WtC Awarded	0		Vizag WtE		In Progress		
38	Nellimarla	14	WtC Planned	0		Vizag WtE		Established	2	90%
39	Gudur N	36	WtC Planned	0		Connected to Cement Factories	2	In Progress		
40	Guntakal	62	WtC Planned	0		Connected to Cement Factories	2	Established	14	90%
41	Jaggaiahpet	26	WtCNG awarded	0		RDF Connected / Guntur WtE	1	In Progress		
42	Jammalamadugu	22	Existing WtC	12	80%	Connected to Cement Factories	1	In Progress		
43	Pedana	16	WtC Awarded	0		Guntur WtE		In Progress		
44	Vuyyuru	20	WtC Awarded	0		Guntur WtE		In Progress		
45	Guntur	363	WtCNG Planned	0		Guntur WtE		Established	80	90%
46	Mangalagiri - Tadepalle	70	WtC Planned	0		Guntur WtE		Established	16	90%
47	Ponnur	29	WtC Planned	0		Guntur WtE		Established	6	90%
48	Chilakaluripet	49	WtC Planned	0		Guntur WtE		Established	12	90%
49	Bapatla	34	WtCNG awarded	0		Guntur WtE		Established	8	90%
50	Repalle	25	WtC Awarded	0		Guntur WtE		Established	4	90%
51	Vinukonda	30	WtCNG awarded	0		Guntur WtE		In Progress		
52	Macherla	28	WtC Awarded	0		Feasibility Study under progress		Established	6	90%
53	Kadapa	167	WtCNG Planned	0		Connected to Cement Factories	6	Established	40	90%
54	Dharmavaram	62	WtC Planned	0		RDF in progress		In Progress		
55	Kadiri	43	WtC Awarded	0		Connected to Cement Factories	1	Established	8	90%
56	Gooty	24	WtC Planned	0		RDF in progress		Established	4	90%

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
57	Pamidi	14	WtC Planned	0		RDF inprogress		In Progress		
58	Hindupur	74	WtC Awarded	0		RDF inprogress		In Progress		
59	Kurnool	224	WtCNG Planned	0		Connected to Cement Factories	2	In Progress		
60	Kalyandurgam	21	WtC Awarded	0		RDF inprogress		Established	2	90%
61	Madakasira	12	WtC Awarded	0		RDF inprogress		Established	2	90%
62	Machilipatnam	89	WtC Awarded	0		RDF Connected / Guntur WtE	3	Established	20	90%
63	Mydukur	22	WtC Planned	0		Connected to Cement Factories	1	In Progress		
64	Nandigama	22	WtCNG awarded	0		RDF Connected / Guntur WtE	1	In Progress		
65	Nandikotkur	23	WtC Planned	0		Connected to Cement Factories	1	Established	4	90%
66	Gudur K	14	WtC Planned	0		RDF in progress		In Progress		
67	Nandyal	98	WtCNG Planned	0		Connected to Cement Factories	3	In Progress		
68	Proddatur	79	WtCNG Planned	0		Connected to Cement Factories	2	In Progress		
69	Pulivendula	32	Existing WtC	18	85%	Connected to Cement Factories	2	Established	6	85%
70	Rajahmundry	168	WtCNG Planned	0		Connected to Cement Factories	3	Established	40	90%
71	Rajampeta	23	WtC Planned	0		Connected to Cement Factories	1	In Progress		
72	Rayachoti	44	WtC Planned	0		Connected to Cement Factories	2	Established	8	90%
73	Tadipatri	53	Existing WtC	29	90%	Connected to	2	Established	10	90%

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
						Cement Factories				
74	Tirupati	208	Existing WtCNG	114	85%	Connected to Cement Factories	4	Established	45	85%
75	Ongole	123	WtCNG awarded	0		Guntur WtE		Established	30	90%
76	Chimakurthy	17	WtC Awarded	0		Guntur WtE		In Progress		
77	Addanki	20	WtC Awarded	0		Guntur WtE		Established	4	90%
78	Kandukur	28	WtC Awarded	0		Feasibility Study under progress		Established	6	90%
79	Kakinada	159	WtCNG Planned	0		Feasibility Study under progress		Established	35	90%
80	Vijayawada	507	Existing WtC	279	85%	RDF Connected / Guntur WtE	6	Established	150	85%
81	Gollaprolu	11	WtC Planned	0		Feasibility Study under progress		In Progress		
82	Pithapuram	25	WtC Planned	0		Feasibility Study under progress		Established	3	90%
83	Peddapuram	24	WtC Planned	0		Feasibility Study under progress		Established	3	90%
84	Samalkota	28	WtC Planned	0		Feasibility Study under progress		Established	4	90%
85	Yeleswaram	16	WtC Planned	0		Feasibility Study under progress		Established	2	90%
86	Ramachandrapuram	21	WtC Planned	0		Feasibility Study under progress		Established	2	90%
88	Mandapeta	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
88	Tuni	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
89	Mummidivaram	12	WtC Awarded	0		Feasibility Study under progress		Established	2	90%
90	Amalapuram	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%
91	Eluru	106	WtCNG Planned	0		Feasibility Study under progress		Established	22	90%
92	Tadepalligudem	51	WtC Planned	0		Feasibility Study under progress		Established	8	90%
93	Tanuku	44	WtC Planned	0		Feasibility Study under progress		In Progress		
94	Palakollu	33	WtC Planned	0		Feasibility Study under progress		In Progress		
95	Narsapuram	29	WtC Planned	0		Feasibility Study under progress		Established	4	90%
96	Bhimavaram	69	WtC Planned	0		Feasibility Study under progress		Established	12	90%
97	Nidadavole	21	WtC Planned	0		Feasibility Study under progress		In Progress		
98	Kovvur	19	WtC Planned	0		Feasibility Study under progress		In Progress		
99	Jangareddy Gudem	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
100	Chittoor	92	WtCNG Planned	0		Feasibility Study under progress		Established	18	90%
101	SriKalahasti	39	WtC Planned	0		Feasibility Study under progress		Established	8	90%
102	Nagari	30	WtC Planned	0		Feasibility Study under progress		In Progress		

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
103	Puttur	26	WtC Planned	0		Feasibility Study under progress		In Progress		
104	Nellore	300	WtCNG Planned	0		Feasibility Study under progress		In Progress		
105	Venkatagiri	25	WtC Planned	0		Feasibility Study under progress		In Progress		
106	Yerraguntla	17	WtC Planned	0		Connected to Cement Factories	1	In Progress		
107	Naidupet	22	WtC Planned	0		Feasibility Study under progress		Established	4	90%
108	Atmakur N	15	WtC Planned	0		Feasibility Study under progress		In Progress		
109	Kavali	51	WtC Planned	0		Feasibility Study under progress		Established	10	90%
110	Akiveedu	11	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
111	Kondapalli	21	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
112	Dachepali	11	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
113	Gurazala	9	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
114	Darsi	12	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
115	BuchireddyPale m	12	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
116	Penukonda	10	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
117	Bethamcharla	14	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
118	Kamlapuram	7	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
119	Kupam	15	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
120	Y.S.R. - Tadegadapa	23	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
121	Chuintalapudi	4	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
122	Podili	6	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
123	Alluru	9	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
124	B.KothaKota	6	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
Total		6898								

VI. Bio-medical Waste Management:

- Total Bio-medical generation: 24.401 Tonnes/ day
- No. of Hospitals and Health Care Facilities: 11,052 Nos.

Status of Treatment Facility/ CBMWTF	:	Presently, there are 12 Nos. of Common Bio-medical Waste Treatment Facilities (CBMWTFs) in covering total 13 Districts in Andhra Pradesh for treatment and disposal of bio-medical waste as per the BMW Management Rules 2016.
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VII. Hazardous Waste Management:

- Total Hazardous Waste generation about: 5,65.832.59 TPA as per hazardous waste inventory, 2019-20.
- No of industries generating Hazardous Waste: 2648 Nos as per Hazardous Waste inventory, 2019 -20.
- **For the month of June, 2021, the Quantity of Hazardous Waste Treated & Disposed is as follows:**

- i) Utilizable waste is 10927.338 TPM (suitable to use as raw material or as alternative fuel viz. Co-processing in Cement Plants so as to conserve the resources).
- ii) Recyclable waste is 213.498 TPM (suitable for recycling /recovery of material viz. oil reclamation units, lead and zinc recovery units).
- iii) Incinerable waste is 296.39 TPM (not suitable for any recycling / reuse and having high calorific value i.e.> 2500 K cal/kg) and
- iv) Land fillable waste is 15374.84 TPM (not suitable for any recycling / reuse and having low calorific value i.e.< 2500 K cal/kg) is reaching and treated at the TSDFs in Visakhapatnam and Nellore.

- **Details of on-going or proposed TSDF:**

Two TSDF are existing in the State of Andhra Pradesh

- ✓ M/s Coastal Waste Management Project Unit-1, Parwada, Visakhapatnam.
- ✓ M/s Coastal Waste Management Project Unit-2 a division of Mumbai Waste Management Limited, S.P.S.R. Nellore District.

VIII. Plastic Waste Management:

Total plastic waste generation	46,222 TPA (As per Annual Report for the F.Y. 2019-20).
Treatment / Measures adopted for reduction or management of plastic waste	<ul style="list-style-type: none"> • The recyclable plastic waste generated is being sent to recycling units and the non-recyclable plastic waste is being sent to cement plants and utilizing for road construction in some ULBs. 18 Nos of recyclers registered with APPCB. Total recycling capacity is 17116 TPA. • 29 ULBs tied up with nearby Cement Plants for co-incineration of non- recyclable plastic waste and 5123 MTs of Non-recyclable plastic waste was sent to cement plants for the F.Y 2019-20. • The MA&UD and PR&RD Dept.. informed that they have been conducting strict vigilance and surprise visits on those who store or use or sell or dispose plastic with less than 50 microns' thickness, for which 721 Task force teams were constituted for inspections and raids to control plastic sale and usage of less than 50 microns' thickness carry bags / films in the ULBs of A.P. About 240 tons of plastic carry bags were seized and Rs. 169 lakhs towards fine was collected.

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

Details of Faecal Sludge Treatment Plants:

No. of Completed FSTPs	:	2 (30 KLD)
No. of In-progress FSTPs	:	64 (950 KLD)
No. of FSTPs to be retendered	:	11 (175 KLD)
No. of FSTPs DPRs to be prepared	:	10

IX (A): Details of Completed FSTPs:

S.No.	Name of ULB	Capacity(in KLD)	Operational Status of FSTP
1	Narsapur	15	Operational
2	Rajam	15	Operational

IX (B): Details of In-Progress FSTPs:

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
1	Dhone	20	August 21
2	Gooty	15	Dec-21
3	Jammalamadugu	15	Dec-21
4	Kadiri	25	Dec-21
5	Kalyanadurgam	10	Dec-21
6	Madakasira	5	Dec-21
7	Paamidi	10	Dec-21
8	Pulivendula	20	Dec-21
9	Puttaparthi	10	Dec-21
10	Rayachoti	25	Dec-21
11	Rayadurg	20	Dec-21
12	Allagadda	10	Dec-21
13	Atmakur (K)	15	Dec-21
14	Badvel	25	Dec-21
15	Gudur (K)	5	Dec-21
16	Mydukuru	15	Dec-21
17	Nandikotkur	15	Dec-21
18	Palamaneru	15	Ready for inauguration
19	Punganur	15	Dec-21
20	Rajampeta	15	Dec-21
21	Yerraguntla	10	Dec-21
22	Atmakur (N)	10	Dec-21
23	Giddalur	10	Dec-21
24	Gudur (N)	20	Dec-21
25	Kandukur	20	Dec-21
26	Kanigiri	15	August-21
27	Markapur	20	June-21
28	Nagari	20	Dec-21
29	Naidupet	15	Dec-21
30	Puttur	15	Dec-21
31	Sullurpeta	15	Dec-21
32	Venkatagiri	15	Dec-21
33	Addanki	10	Dec-21
34	Bapatla	25	August -21
35	Chimakurthy	10	Dec-21
36	Chirala	25	August -21
37	Macherla	15	Dec-21
38	Mangalagiri	25	Dec-21
39	Piduguralla	15	Dec-21
40	Ponnur	15	August -21
41	Repalle	15	Dec-21

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
42	Sattenapalli	15	Dec-21
43	Vinukonda	15	Ready for inauguration
44	Amalapuram	15	Dec-21
45	Gollaprolu	5	Dec-21
46	Kovvur	10	Dec-21
47	Mandapeta	15	Dec-21
48	Mummidivaram	10	Dec-21
49	Peddapuram	15	Dec-21
50	Pithapuram	15	Dec-21
51	Ramachandrapuram	15	August -21
52	Samalkota	15	Dec-21
53	Tuni	15	Dec-21
54	Yeleshwaram	10	Dec-21
55	Amudalavalasa	10	Dec-21
56	Bobbili	15	Ready for inauguration
57	Ichapuram	10	Dec-21
58	Narsipatnam	20	Dec-21
59	Nellimarla	10	Dec-21
60	Palakonda	10	Dec-21
61	Palasa-Kasibugga	15	Dec-21
62	Parvathipuram	15	Dec-21
63	Salur	15	Dec-21
64	Yelamanchili	15	Dec-21
Total		950	

IX (C) Details of FSTPs to be Retendered:

S.No	Name of the ULB	Capacity of Plant (KLD)
1	Jangareddigudem	15
2	Nidadavolu	15
3	Palacole	20
4	Pedana	10
5	Tadepalli	20
6	Tanuku	25
7	Vuyyuru	15
8	Jaggiahpeta	15
9	Nandigama	15
10	Nuzividu	15
11	Tiruvuru	10

IX (D) Details of FSTPs DPRs to be Prepared:

S.No	Name of ULB	Status of the project
1	Akiveedu	DPR to be prepared - Newly Constituted ULB
2	Kondapalli	DPR to be prepared - Newly Constituted ULB
3	Dachepali	DPR to be prepared - Newly Constituted ULB
4	Gurazala	DPR to be prepared - Newly Constituted ULB
5	Darsi	DPR to be prepared - Newly Constituted ULB
6	BuchireddyPalem	DPR to be prepared - Newly Constituted ULB
7	Penukonda	DPR to be prepared - Newly Constituted ULB
8	Bethamcharla	DPR to be prepared - Newly Constituted ULB
9	Kamlapuram	DPR to be prepared - Newly Constituted ULB
10	Kupam	DPR to be prepared - Newly Constituted ULB

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

- A total of 32 No's of outfall points of the major disposal drains have been identified which are contributing to River Pollution. All the above 32 No's of outfall points are provided with Meshes/Screens to prevent solid waste from falling in to the Rivers.

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

Commissioner & Director of Municipal Administration Appointment as a Nodal Officer for Polluted River stretches as per G.O.RT. No: 56

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

XIII. **Latest water quality of polluted river, its tributaries, drains with flow details:**

- APPCB has been monitoring the 5 polluted river stretches at 27 locations on monthly basis and the data is being uploaded in RRC Website <https://rrc.ap.gov.in/Views/Monitoring.aspx> every month. **The monitoring of water quality data for the month of June, 2021 is enclosed.**
- **As per the analysis of samples collected at 27 locations in the month of June, 2021 the B.O.D value is less than 3.0 mg/lit. (Details enclosed)**

XIV. Ground water regulation:

XV. Good irrigation practices being adopted by the State:

XVI. Rain Water Harvesting:

XVII. Demarcation of Floodplain and removal of illegal encroachments:

XVIII. Maintaining minimum e-flow of river:

- XIX. Plantation activities along the rivers:
- XX. Development of biodiversity park:
- XXI. Reuse of Treated Water:
- XXII. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:
- XXIII. Status of Preparation of Action Plan by the 13 Coastal States:
- XXIV. Regulation of Mining Activities in the State/UT:
- XXV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring.

ENCLOSURES

ANNEXURE

Water quality status of polluted river stretches in Andhra Pradesh - 2021

I. 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, 2021 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, Goyalanka, East Godavari Dist.

Month-wise data of water quality of river Godavari, 2021

Parameter	Code	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Dec	Standard		
														Class A	Class B	Class C
pH	4367	7.44	7.61	7.84	8.23	----	----							6.0 - 8.5	6.0 - 9.0	
	4359	7.50	6.85	7.07	6.96	----	----									
	0014	7.52	7.52	7.53	7.22	7.76	7.61									
	1218	7.36	7.75	7.08	7.31	7.87	7.67									
	2370	7.69	7.30	6.84	7.92	7.02	7.44									
	2371	7.05	7.19	6.97	7.90	7.78	7.25									
	1219	7.25	7.21	6.83	7.59	7.02	7.34									
	4365	7.22	7.42	7.22	7.5	7.38	7.83									
	4366	7.33	7.71	7.30	7.73	7.62	7.69									
	4358	7.57	6.95	7.52	7.49	7.38	7.75									
DO	4367	5.6	5.4	6.2	6.9	----	----							6.0	5.0	4.0
	4359	8.5	8.5	8.2	8.0	----	----									
	0014	6.0	7.9	6.7	6.0	6.6	7.5									
	1218	7.0	6.2	6.4	6.3	6.5	8.0									
	2370	8.4	8.0	6.8	6.6	6.6	7.0									
	2371	7.5	6.5	6.6	6.4	6.1	6.6									
	1219	7.2	7.8	8.5	6.9	6.8	6.4									
	4365	5.8	7.2	8.0	8.5	6.6	8.5									
	4366	5.4	7.0	7.0	7.6	6.5	7.0									
4358	5.4	6.5	5.6	5.0	6.6	6.8										
BOD	4367	1.8	2.2	2.0	1.8	----	----							2.0	3.0	3.0
	4359	1.5	1.5	2.2	1.8	----	----									
	0014	1.8	2.2	1.9	1.8	1.7	2.2									
	1218	2.0	1.0	2.0	1.5	1.7	1.8									
	2370	1.4	1.4	2.6	2.2	2.0	1.8									
	2371	1.8	2.2	2.8	2.6	2.2	2.0									
	1219	2.0	1.6	1.4	1.8	1.6	1.8									
	4365	2.0	2.0	1.5	1.5	1.8	1.5									
	4366	2.6	2.3	2.0	2.0	2.4	2.2									
4358	2.4	1.6	1.5	2.2	1.4	1.2										

2. 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, 2021 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, 2021:

Parameters	Code	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1175	7.8	7.9	7.3	7.7	7.4	7.2							6.0 - 8.5	6.0 - 9.0	
	3083	7.7	7.4	7.6	7.7	7.7	7.5									
	4381	7.88	7.94	8.19	8.02	7.82	7.76									
	1786	7.27	7.30	8.04	7.48	7.66	7.34									
	1787	7.22	7.68	7.99	7.38	7.42	7.54									
	0025	7.76	7.80	7.92	7.42	7.56	7.46									
	4375	7.79	7.80	7.70	7.58	7.46	7.58									

TDS	1175	372	428	445	764	623	648							500 - 2000
	3083	386	418	389	419	432	376							
	4381	446	480	470	480	485	490							
	1786	416	450	540	528	540	526							
	1787	430	430	460	510	520	534							
	0025	374	380	418	498	510	442							
	4375	368	350	384	506	498	426							
	1782	25100	19000	23300	22400	22800	15380							

Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal coliform. Total 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. High TDS values at Hamsaladeevi could be attributed due to the intrusion of backwaters of Bay of Bengal.

3. 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, 2021 is as follows:

S. No.	Code	Location point
01	1785	Manthralayam, Kurnool Dist.
02	1174	Bhavapuram, Kurnool Dist.
03	4388	U/S of Kurnool town B/C with domestic sewage & A/c of Rayalaseema alkalis industries at Gondiparla, Kurnool.
04	4389	D/S of Kurnool town A/C with domestic sewage at Gondiparla, Kurnool.

Month-wise data of water quality of river Tungabhadra, 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1785	7.8	7.8	7.8	7.7	7.5	7.6							6.0 – 8.5	6.0 – 9.0	
	1174	7.6	7.3	7.7	7.9	7.8	7.9									
	4388	6.8	7.4	7.2	7.6	7.0	7.8									
	4389	7.1	7.1	6.9	7.6	7.1	7.6									
DO	1785	5.3	5.7	4.8	5.0	5.0	5.2							6.0	5.0	4.0
	1174	5.5	5.5	5.0	5.3	5.4	5.3									
	4388	5.3	4.5	4.3	5.5	4.1	4.3									
	4389	5.2	4.9	4.2	5.5	4.4	4.7									
BOD	1785	2.8	2.8	3.0	2.5	2.7	2.0							2.0	3.0	3.0
	1174	2.3	2.8	2.8	3	2.2	2.3									
	4388	2.3	2.7	3.0	1.8	3	2.5									
	4389	2.8	3.0	3.0	1.3	2.5	2.2									
Fecal Coliform	1785	210	130	170	130	240	350							---	500	---
	1174	170	180	220	210	280	430									
	4388	180	180	350	280	430	240									
	4389	140	210	430	220	250	350									
TDS	1785	636	812	724	454	508	714							500 - 2000		
	1174	738	898	1014	1185	946	1036									
	4388	1042	1120	1196	1325	1384	1120									
	4389	779	921	893	1095	1098	836									

Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal coliform. Total 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 like D/S of Kurnool town. Hence, this location may be categorized as Class – C at these points.

4. River Nagavali:

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, 2021 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.

Month-wise data of water quality of river Nagavali, 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	4351	7.86	7.30	7.24	7.97	7.66	6.66							6.0 – 8.5	6.0 – 9.0	
	1448	7.52	7.45	6.98	8.01	7.27	7.35									
	4346	8.28	7.62	7.39	8.82	7.33	7.06									
	4347	8.10	7.69	7.32	8.37	7.24	7.08									
DO	4351	6.0	6.7	6.7	6.2	5.8	6.0							6.0	5.0	4.0
	1448	5.9	6.5	8.1	6.5	7.5	6.5									
	4346	8.4	7.5	7.5	7.4	8.0	6.0									
	4347	6.4	7.2	7.0	7.0	7.5	6.0									

BOD	4351	1.3	1.7	1.4	2.1	2.0	1.8							2.0	3.0	3.0
	1448	1.9	1.9	1.4	2.0	1.7	1.6									
	4346	1.4	2.0	1.6	1.2	1.5	1.7									
	4347	1.9	2.2	1.8	1.4	1.8	2.0									
Fecal Coliform	4351	21	15	11	15	15	15							---	500	---
	1448	9	11	9	9	9	15									
	4346	7	9	7	7	9	9									
	4347	11	11	15	11	15	15									
TDS	4351	236	240	224	260	268	262							500 - 2000		
	1448	192	240	192	280	256	268									
	4346	252	224	240	272	232	252									
	4347	280	260	264	292	276	296									

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

Remarks: BOD & Fecal coliform values found to within the standard limits stipulated for bathing at all the locations.

5. 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, 2021 is as follows:

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

Month-wise data of water quality of river Kundu, 2021

Parameters	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	*Standard			
													Class A	Class B	Class C	
pH	7.5	7.6	7.3	7.9	7.8	7.7								6.0 – 8.5		6.0 – 9.0
DO	5.1	4.8	5.1	5.0	5.6	5.2								6.0	5.0	4.0
BOD	2.5	2.5	2.8	1.8	3.0	2.5								2.0	3.0	3.0
Fecal Coliform	350	280	240	920	350	430								---	500	---
TDS	446	486	512	706	746	862								500 - 2000		
Note: All values are expressed in mg/L except pH, Total Coliform & Fecal Coliform value. Total 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.																

CPCB Water Quality Criteria for Designated Best Use

Designated-best- use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection.	A	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 50 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 6 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 2mg/l or less.
Outdoor bathing (Organized)	B	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 500 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 5 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less.
Drinking Water Source after conventional treatment and disinfection.	C	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 5000 or less. • pH between 6 to 9 • Dissolved oxygen 4 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Propagation of Wild life and Fisheries.	D	<ul style="list-style-type: none"> • pH between 6.5 to 8.5 • Dissolved oxygen 4 mg/l or more. • Free Ammonia (as N) 1.2 mg/l or less • pH 9 between 6.0 to 8.5.
Irrigation, Industrial Cooling, Controlled Waste disposal.	E	<ul style="list-style-type: none"> • Electrical Conductivity at 25°C micro mhos/cm Max. 2250. • Sodium Absorption ratio Max. 26 • Boron Max.2 mg/l.
	Below -E	Not Meeting A, B, C, D & E Criteria.

GOVERNMENT OF ANDHRA PRADESH
MUNICIPAL ADMINISTRATION & URBAN DEVELOPMENT (UBS) DEPARTMENT

Letter No.1282446/UBS/2020

Dated: 28-06-2021

From
The Special Chief Secretary to Government,
MA & UD Department,
A.P. Secretariat,
Velagapudi,
Guntur District

To
The Secretary,
Ministry of Jal Sakti,
MoHUA.,
Government of India,
New Delhi.(w.e.)

Sir,

Sub:-MA & UD Department - National Green Tribunal – Orders of the
National Green Tribunal Principal Bench, New Delhi in OA
No.673/2018 - Monthly Progress Report for the month of May,
2021 -Furnished – Regarding.

Ref:-Orders of the National Green Tribunal Principal Bench, New Delhi
in OA No.673/2018, dt.24.09.2020.

In compliance to the directions of the Hon'ble National Green Tribunal
Principal Bench, New Delhi in the reference cited, I am herewith enclose the Monthly
Progress Report in the prescribed format for the month of May, 2021 for taking
further necessary action.

Yours faithfully,

G. Sudha Ray

For SPECIAL CHIEF SECRETARY TO GOVERNMENT

National Mission for Clean Ganga
Format for submission of Monthly Progress Report for the
month of MAY, 2021 in the NGT Matter OA No. 673 of 2018 (in
compliance to NGT order dated 24.09.2020)

For the State of Andhra Pradesh

Overall status of the State:

- I. Total Urban Population : 1.48 Crore
- II. Estimated Sewage Generation (MLD) : 1503.20 MLD (120 ULB's)

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD) : 515.85 MLD (43No's)
- Present Gap in Treatment Capacity in MLD : 987.35 MLD
- Capacity of under construction STP's : 480.07 MLD
- STPs under tender : 51.40 MLD
- No. of Operational STPs : 43 Nos
- No. of Non-complying STPs : Nil

III (A) Details of each existing STP in the State

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Utilization capacity in MLD	Operational Status of STP	Compliance Status of STP
1	GVMC	Old town	May'2019	38.00	35.23	Operational	Complied
2		Appughar	26.09.2010	25.00	21.42	Operational	Complied
3		Mudasarlova	April'2008	13.00	9.65	Operational	Complied
4		Narava	Aug-01	54.00	22.36	Operational	Complied
5		Anakapalle	April'2018	15.00	7.55	Operational	Complied
6		Madinabagh		2.00	1.02	Operational	Complied
7		Yathapalem Colonies	April'2008	2.50	1.01	Operational	Complied
8		Gajuwaka	April'2008	0.50	0.23	Operational	Complied
9		Karnavani palem	Dec' 2019	5.00	0.0	Operational	Complied
10		Mantripalem	April' 2008	1.00	0.31	Operational	Complied
11		Aganampudi	Dec' 2015	6.00	0.0	Operational	Complied
12		Rathi Cheruvu	Sep' 2019	2.00	0.65	Operational	Complied
13		Kommadi / Madhurawada	Aug' 2018	4.00	2.10	Operational	Complied
14		Bakkannapalem	Aug' 2011	1.00	0.36	Operational	Complied
15		Marikavalasa	Dec' 2012	2.00	1.15	Operational	Complied
16		Vambay Colony	Aug' 2011	3.00	1.38	Operational	Complied
17		YSR Nagar	Aug' 2011	2.00	1.30	Operational	Complied
18		Boyapalem	Aug' 2011	1.00	0.39	Operational	Complied
		Sub Total		177.00	106.11		

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Utilization capacity in MLD	Operational Status of STP	Compliance Status of STP
19	Rajamahendravaram	Hukumpeta	03.01.2009	30.00	30.0	Operational	Complied
20	Vijayawada	Ajith Singh Nagar-1	31.05.2011	40.00	39.52	Operational	Complied
21		Ajith Singh Nagar-2	31.05.2012	20.00	20.0	Operational	Complied
22		Ramalingeswar Nagar-1	30.06.2012	20.00	19.74	Operational	Complied
23		Ramalingeswar Nagar-2	20.10.2006	10.00	9.80	Operational	Complied
24		Autonagar -1	31.03.2005	10.00	9.70	Operational	Complied
25		Autonagar -2	31.12.2018	10.00	9.80	Operational	Complied
26		Jakkampudi	31.07.2017	20.00	13.50	Operational	Complied
			Sub Total		130.00	122.06	
27	Tirupathi	Thukivakam	30.09.2018	50.00	33.0	Operational	Complied
28	Kadapa	Nanapally	02.08.2012	20.00	10.0	Partly Operational	Complied
29	Pulivendula	Rotarypuram	25.01.2009	6.50	2.50	Partly Operational	Complied
30	Tadipatri	Gannevaripalle	10.10.2010	3.50	2.50	Operational	Complied
31		Gannevaripalle	10.10.2010	8.00	4.0	Operational	Complied
		Sub Total		11.50	6.50		Complied
32	Puttaparthi	1.Sai Nagar	20.7.2001	0.50	0.50	Operational	Complied
33		2. Gokulam	20.7.2001	0.50	0.0	Under Rehabilitation	Complied
34		3. Prasanthi Gram	20.7.2001	0.50	0.0	Under Rehabilitation	Complied
		Sub Total		1.50	0.50		Complied
35	Narsaraopeta	CPT Road	02.02.2018	15.55	8.50	Operational	Complied
36	Nellore	Janardhan Reddy Colony		5.00	5.0	Trail Run	Complied
37		Allepuram		55.00	0.0		
38		Drivers Colony		11.00	0.0		
		Sub Total		71.00	5.0		Complied
39	Kurnool	Jammichettu	12.03.2019	0.80	0.80	Operational	Complied
40		Sankal Bagh	12.03.2019	0.80	0.80	Operational	Complied
41		Tungabhadra PumpHouse	10.03.2018	0.80	0.80	Operational	Complied
		Sub Total		2.40	2.4		Complied
42	Tadepalli	Mahanadu-1	10.12.2018	0.20	0.20	Operational	Complied
43		Mahanadu-2	15.12.2018	0.20	0.20	Operational	Complied
		Grand Total		515.85	326.97		

III (B) Details of under construction STPs in the State

S.No.	Location	Scheme Name	No. of STP	Capacity of the plant in MLD	Physical Progress in %	Completion Timeline
1	Yemmiganur	UIDSSMT	1	19.80	96%	August 2021
2	Srikakulam	AMRUT	1	10.00	45%	December2021
3	Vizianagaram	AMRUT	1	5.00	55%	December2021
4	GVMC	Smart City (Package-I)	1	54.00	65%	December2021
5	Kakinada	AMRUT	1	5.00	37%	December2021
6	Rajamahendravaram	AMRUT	1	5.00	10%	December2021
7	Bhimavaram	AMRUT	1	5.00	42%	December2021
8	Tadepalligudem	AMRUT	1	5.00	0%	December2021
9	Eluru	AMRUT	1	5.00	36%	December2021
10	Machilipatnam	AMRUT	1	5.00	46%	December2021
11	Gudivada	AMRUT	1	5.00	37%	December2021
12	Vijayawada	JNNURM	1	20.00	83%	December2021
13	Tenali	AMRUT	1	10.00	35%	December2021
		14 FC	1	2.00	30%	December2021
14	Ongole	AMRUT	1	15.00	60%	December2021
15	Chilakaluripeta	AMRUT	1	5.00	21%	December2021
16	Kavali	AMRUT	1	15.00	77%	December2021
17	Nellore	HUDCO	2	34.00	81%	December2021
18	Tirupati	Smart City	1	25.00	25%	December2021
19	Srikalahasti	AMRUT	1	7.00	11%	December2021
20	Madanapalle	AMRUT	1	5.00	20%	December2021
21	Kadapa	AMRUT	1	20.00	0%	December2021
22	Anantapuramu	AMRUT	1	10.00	0%	December2021
23	Dharmavaram	AMRUT	1	15.00	0%	December2021
24	Guntakal	AMRUT	1	8.00	0%	December2021
25	Kurnool	AMRUT	1	2.00	50%	December2021
		AMRUT	1	10.00	10%	December2021
26	Nandyal	AMRUT	1	10.00	10%	December2021
27	Adoni	AMRUT	1	5.00	20%	December2021
28	Guntur	OTSFA	4	123.00	51%	Jun2022
29	Pulivendula	PLAN	1	10.00	15%	December2022
			1	1.50		
			7 (0.5MLD x 7nos)	3.50		
			1	0.02		
			1	0.07		
			1	0.08		
			1	0.10		
Grand Total			46	480.07		

III (C) Details of Proposed STPs in the State

Phase	Description	No. of ULBs	Proposed Total STP capacities (MLD)	Cost of Total STPs (crores)
I	Municipal Corporations	16	539.00	1617.00
II	ULBs having population above 1 Lakhs	18	221.00	663.00
III	ULBs having Population ranging between 75,000 to 1 Lakh	8	43.00	129.00
IV	ULBs having Population less than 75,000	78	499	1497.00
V	Taxes and others etc @20%			781.20
	Total		1302.00	4687.20

III D) Details of STPs Under Tendering:

S.No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1	Kanigiri	6.00	Tenders are in the process	Two years after date of award of the work
2	Sullurpet	8.00		
3	Allagadda	5.00		
4	Nandikotkur	5.00		
5	Madakasira	5.00		
6	Rayachoti	22.40	2 nd call No Bidders. 3 rd call Tenders are process.	
	Total	51.40		

II E) STATUS OF STPs UNDER RIVER STRETCHES:

- Total Estimated Sewage Generation (in MLD) 2020:302.00 MLD
- Existing no. of STP with Treatment Capacity (in MLD) :162.40 MLD
- Present Gap in Treatment Capacity (in MLD) : 139.60 MLD
- Capacity of under Construction STPs (in MLD) : 57.00 MLD

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-IV RIVERS						
1.	Tungabhadra	Kurnool	2.40MLD	10 MLD	10 %	DPR prepared for Rs.304.00 Crores proposed additional STPs of 78 MLD to satisfy the demand for the year 2035 and submitted to the Govt. of Andhra Pradesh for according administrative sanction. 1.At Tungabhadra Pump house-5.00 MLD 2. At Roja Dargha -3.00 MLD 3. At Roja Dargha – I -2.00 MLD 4.At Sri Chaitanya School – II- 5.00 MLD 5.At Saibaba Temple -3.00 MLD 6. At Nagasai Temple -2.00 MLD 7. At Nagasai Temple – I -3.00 MLD 8.At Law College -2.00 MLD 9. At Raghavendra Matam - 5.00 MLD 10. At Nagula Katta - 8.00 MLD 11. At Jammi Chettu -40.00MLD Total - 78.00 MLD
				2 MLD	50%	
2	Kundu	Nandyal	0.00	10 MLD	10%	Comprehensive DPR on UGD scheme is prepared for Rs.85.00 Cr with STPs capacity of 26 (21 + 5) MLD to cater the needs of 2035 year. DPR ssubmitted to the Govt. for according Administrative Sanction.

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-V RIVERS						
1.	Nagavali	Srikakulam	0.00	10 MLD	45%	Comprehensive proposal for providing UGD scheme for 2035 is prepared for an amount of Rs.190.36 Cr with an additional STP capacity of 12 MLD.
2.	Godavari	Rajamahendravaram	30.00	5 MLD	10 %	DPR on Comprehensive UGD scheme prepared with additional STP's of capacity 72.37 MLD for an amount of Rs.404.00 Cr. RMC has attended the remarks and resubmitted the proposals. Now it is proposed to take up the works with an estimated cost of Rs.107.00 crores in the first year.
3.	Krishna	Vijayawada	130.00	20 MLD	83%	DPR is prepared for Rs.246.38 Cr for providing Comprehensive UGD scheme to meet the 2035 demand including up-gradation of 2 STPs of 30.00 MLD capacity.

IV. Details of Industrial Pollution:

- No. of industries in the State: 9941No's
- No. of water polluting industries in the State: 1432 No's
- Quantity of effluent generated from the industries in MLD: 4505.152 MLD

Effluent Break-Up Details:

- Once through Cooling water: 3826.13 MLD
- Trade effluents: 375.36 MLD
- cooling tower/Boiler blow down: 254.12 MLD
- Domestic waste water: 49.54 MLD

From the total waste water generation from the industries, major portion is once

through cooling water (about 85%) and temperature to be maintained for discharge of once through cooling system is not more than 5⁰C temperature of intake water.

- ✓ From the Cooling tower/Boiler blow down (about 5.6%).
 - ✓ The remaining about 9.4% is generated from Trade effluent & Domestic Discharges.
 - ✓ APPCB is not permitting to discharge industrial / trade effluents into the rivers.
- Number of industrial units having ETPs: 1092 No's
 - Number of industrial units connected to CETP: 340 No's
 - i. Existing: 1092 no's ETPs
 - ii. Under construction:01
 - iii. Proposed;01
 - **Compliance status of the ETPs:**
 - ✓ APPCB is regularly monitoring the compliance status of ETPs and action is being initiated for non-compliance industries.
 - Number and total capacity of CETPs (details of existing/ under construction / proposed)
 - i. Existing: 7 No's with total capacity of 34.47 MLD
 - ii. Under construction: 1 no's
 - 1 MLD at Menakur, Nellore District
 - iii. Proposed: 3 no's
 - 1.5 MLD at Atchuthapuram SEZ, Visakhapatnam
 - 1.5 MLD at Nakkapalli, Visakhapatnam.
 - 1.2 MLD at Chittoor District

• **Status of compliance and operation of the CETPs**

S.No	Name and Address of the CETP & contact person	Design capacity	Current Operating capacity	Type and No. of member units	Compliance status
1.	Brandix India Apparel City Private Limited, APSEZ, Atchutapuram Pudimadaka Road, Visakhapatnam.	20 MLD	*4 MLD	Textile park- 14 units	Complied *In Brandix India Apparel City, textile industries were not established as anticipated. Hence effluent generation is less.
2.	RamkyPharma City (India) Ltd, JN PharmaCity, Parawada Mandal, Visakhapatnam.	8.5 MLD	5.0 MLD	Pharmaceutical & Bulk drugs- 92 units	Complied
3.	Kondapally Envirotech Pvt. Ltd., (KEPL), IDA, Kondapalli(V), Ibrahimpatnam (M), Krishna District.	0.2 MLD	0.05 MLD	Pharmaceutical & Bulk drugs- 14 units	Complied
4.	Vijayawada Auto Cluster Development Company, Industrial Estate, Auto Nagar, Vijayawada.	0.2 MLD	0.04 MLD	Food beverages, Herbal pharma, Oil solvents & lubricants - 35 units.	Complied
5.	Machilipatnam Imitation Jewellery Park Pvt. Ltd., Jewellery Park, Potheipalli, Machilipatnam.	0.07 MLD	0.002 MLD	Electro Plating - 48 Units	Complied
6.	Nagari Dyeing Owners Association, Chinthalapatteda (V), Nagari (M), Chittoor District.	4 MLD	0.8 MLD	Manual Dyeing units - 105 units	Complied
7.	Atchuthapuram Effluent Treatment Plant, Atchutapuram Visakhapatnam.	1.5 MLD	0.5 MLD	Pharmaceutical & Bulk drugs- 20 units	Complied

V. Solid Waste Management:

- Total number of Urban Local Bodies: **120** and their Population: **1.48** Crore
- Current Municipal Solid Waste Generation: **6850** TPD. for 120 ULBs (10 Newly Constituted ULBs – These ULBs have not yet developed urban Dynamics).
- 2 Waste to Energy Projects covering 13 ULBs are in progress with an installed capacity of 1500 TPD (30 MW),
- 31 Wet Waste Projects covering 34 ULBs treating 1430 TPD with an installed capacity of 1600 TPD are existing.
- 18 Wet Waste Projects covering 18 ULBs are in progress with an installed capacity of 420 TPD.
- Tenders were called for selection of agencies to establish ISWM projects in 72 ULBs under PPP mode.
- 76 Material Recovery facilities covering 76 ULBs treating 810 TPD with an installed capacity of 1000 TPD Existing.
- 44 Material Recovery facilities covering 44 ULBs are in progress with an installed capacity of 500 TPD.
- 3 Construction and Demolition waste processing plants in Greater Visakhapatnam Municipal Corporation, Vijayawada Municipal Corporation and Tirupati Municipal Corporation treating 100 TPD with an installed capacity of 200 TPD are existing.
- The Source Segregation in the State is 82.16 % and capacity utilization of the treatment units is the same percentage, Ward Secretariats and volunteer system established and unique in the State are ensuring 99 % door to door collection.
- Total no. of wards: 3634. No. of wards having door to door collection service: 3634. No. of wards practicing segregation at source: 2944
- 114 Dumpsites with an area of 1000 acres are existing in the state. Out of which remediation of 4 dumpsites in 4 ULBs (Visakhapatnam, Vijayawada, Tirupati and Tanuku) are under progress.
- No Dumpsites of legacy waste are within 1km buffer of both sides of the rivers in the State.

Status of ULB wise Management of Solid Waste:

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
1	Amudalavalasa	19	Existing WtC	10	85%	Vizag WtE		Established	4	85%
2	Ichchapuram	18	Existing WtC	10	85%	Feasibility Study under progress		Established	2	85%
3	Palasa-kasibugga	28	Existing WtC	15	80%	Feasibility Study under progress		In Progress		
4	Rajam	21	Existing WtC	12	80%	Vizag WtE		Established	4	85%
5	Bobbili	29	Existing WtC	16	90%	Vizag WtE		Established	8	85%
6	Salur	24	Existing WtC	13	90%	Vizag WtE		Established	6	90%
7	GVMC	918	Existing WtC	505	85%	Vizag WtE		Established	300	85%
8	Narsipatnam	30	Existing WtC	17	80%	Vizag WtE		Established	8	85%
9	Yellamanchali	23	Existing WtC	13	80%	Vizag WtE		Established	4	85%
10	Adoni	81	Existing WtCNG	45	80%	Connected to Cement Factories	3	Established	20	85%
11	Nuzivid	29	Existing WtC	16	80%	Guntur WtE		In Progress		
12	Thiruvuru	17	Existing WtCNG	9	80%	Guntur WtE		Established	2	85%
13	Tenali	80	Existing WtC	44	90%	Guntur WtE		Established	20	90%
14	Sattenpalle	28	WtCNG - Pidugurala	15	85%	Guntur WtE		Established	6	85%
15	Narsaraopet	57	WtCNG - Pidugurala	31	85%	Guntur WtE		Established	16	85%
16	Piduguralla	31	Existing WtCNG	17	85%	Guntur WtE		In Progress		
17	Allagadda	20	Existing WtC	11	85%	Connected to Cement Factories	1	Established	4	85%
18	Rayadurgam	30	Existing WtC	17	85%	RDF inprogress		Established	6	85%
19	Puttaparty	15	Existing WtC	8	85%	RDF inprogress		Established	2	85%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
20	Yemmiganur	46	WtCNG - Adoni	25	85%	RDF inprogress		Established	10	85%
21	Anantapur	131	WtCNG Planned	0		Connected to Cement Factories	8	Established	35	90%
22	Atmakur K	22	WtC Awarded	0		Connected to Cement Factories	1	Established	4	90%
23	Badvel	35	WtC Planned	0		Connected to Cement Factories	2	In Progress		
24	Dhone	29	WtC Planned	0		Connected to Cement Factories	2	Established	6	90%
25	Markapur	35	Existing WtC	19	80%	Feasibility Study under progress		Established	8	85%
26	Giddalur	19	Existing WtC	10	85%	RDF inprogress		Established	4	85%
27	Kanigiri	22	Existing WtC	12	85%	Feasibility Study under progress		Established	4	85%
28	Chirala	42	Existing WtC	23	90%	Guntur WtE		Established	9	90%
29	Gudivada	58	WtCNG awarded	0		RDF Connected / Guntur WtE	3	Established	14	90%
30	Palamaneru	25	Existing WtC	14	85%	Feasibility Study under progress		In Progress		
31	Punganur	27	Existing WtC	15	80%	Feasibility Study under progress		Established	6	85%
32	Madanpalle	67	Existing WtCNG	37	85%	RDF inprogress		In Progress		
33	Sullurpet	22	Existing WtC	12	80%	Feasibility Study under progress		Established	4	85%
34	Srikakulam	65	WtCNG Planned	0		Vizag WtE		Established	16	90%
35	Palakonda	16	WtC Awarded	0		Vizag WtE		In Progress		
36	Vizianagaram	119	WtCNG Planned	0		Vizag WtE		Established	30	90%
37	Parvathipuram	26	WtC Awarded	0		Vizag WtE		In Progress		

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
38	Nellimarla	14	WtC Planned	0		Vizag WtE		Established	2	90%
39	Gudur N	36	WtC Planned	0		Connected to Cement Factories	2	In Progress		
40	Guntakal	62	WtC Planned	0		Connected to Cement Factories	2	Established	14	90%
41	Jaggaiahpet	26	WtCNG awarded	0		RDF Connected / Guntur WtE	1	In Progress		
42	Jammalamadugu	22	Existing WtC	12	80%	Connected to Cement Factories	1	In Progress		
43	Pedana	16	WtC Awarded	0		Guntur WtE		In Progress		
44	Vuyyuru	20	WtC Awarded	0		Guntur WtE		In Progress		
45	Guntur	363	WtCNG Planned	0		Guntur WtE		Established	80	90%
46	Tadepalle	34	WtC Planned	0		Guntur WtE		Established	8	90%
47	Ponnur	29	WtC Planned	0		Guntur WtE		Established	6	90%
48	Chilakaluripet	49	WtC Planned	0		Guntur WtE		Established	12	90%
49	Mangalagiri	36	WtC Planned	0		Guntur WtE		Established	8	90%
50	Bapatla	34	WtCNG awarded	0		Guntur WtE		Established	8	90%
51	Repalle	25	WtC Awarded	0		Guntur WtE		Established	4	90%
52	Vinukonda	30	WtCNG awarded	0		Guntur WtE		InProgress		
53	Macherla	28	WtC Awarded	0		Feasibility Study under progress		Established	6	90%
54	Kadapa	167	WtCNG Planned	0		Connected to Cement Factories	6	Established	40	90%
55	Dharmavaram	62	WtC Planned	0		RDF in progress		In Progress		
56	Kadiri	43	WtC Awarded	0		Connected to Cement Factories	1	Established	8	90%
57	Gooty	24	WtC Planned	0		RDF in progress		Established	4	90%
58	Pamidi	14	WtC Planned	0		RDF inprogress		In Progress		

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
59	Hindupur	74	WtC Awarded	0		RDF inprogress		In Progress		
60	Kurnool	224	WtCNG Planned	0		Connected to Cement Factories	2	In Progress		
61	Kalyandurgam	21	WtC Awarded	0		RDF inprogress		Established	2	90%
62	Madakasira	12	WtC Awarded	0		RDF inprogress		Established	2	90%
63	Machilipatnam	89	WtC Awarded	0		RDF Connected / Guntur WtE	3	Established	20	90%
64	Mydukur	22	WtC Planned	0		Connected to Cement Factories	1	In Progress		
65	Nandigama	22	WtCNG awarded	0		RDF Connected / Guntur WtE	1	In Progress		
66	Nandikotkur	23	WtC Planned	0		Connected to Cement Factories	1	Established	4	90%
67	Gudur K	14	WtC Planned	0		RDF inprogress		In Progress		
68	Nandyal	98	WtCNG Planned	0		Connected to Cement Factories	3	In Progress		
69	Proddutur	79	WtCNG Planned	0		Connected to Cement Factories	2	In Progress		
70	Pulivendula	32	Existing WtC	18	85%	Connected to Cement Factories	2	Established	6	85%
71	Rajahmundry	168	WtCNG Planned	0		Connected to Cement Factories	3	Established	40	90%
72	Rajampeta	23	WtC Planned	0		Connected to Cement Factories	1	In Progress		
73	Rayachoti	44	WtC Planned	0		Connected to Cement Factories	2	Established	8	90%
74	Tadipatri	53	Existing WtC	29	90%	Connected to	2	Established	10	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
						Cement Factories				
75	Tirupati	208	Existing WtCNG	114	85%	Connected to Cement Factories	4	Established	45	85%
76	Ongole	123	WtCNG awarded	0		Guntur WtE		Established	30	90%
77	Chimakurthy	17	WtC Awarded	0		Guntur WtE		In Progress		
78	Addanki	20	WtC Awarded	0		Guntur WtE		Established	4	90%
79	Kandukur	28	WtC Awarded	0		Feasibility Study under progress		Established	6	90%
80	Kakinada	159	WtCNG Planned	0		Feasibility Study under progress		Established	35	90%
81	Vijayawada	507	Existing WtC	279	85%	RDF Connected / Guntur WtE	6	Established	150	85%
82	Gollaprolu	11	WtC Planned	0		Feasibility Study under progress		In Progress		
83	Pithapuram	25	WtC Planned	0		Feasibility Study under progress		Established	3	90%
84	Peddapuram	24	WtC Planned	0		Feasibility Study under progress		Established	3	90%
85	Samalkota	28	WtC Planned	0		Feasibility Study under progress		Established	4	90%
86	Yeleswaram	16	WtC Planned	0		Feasibility Study under progress		Established	2	90%
87	Ramachandrapuram	21	WtC Planned	0		Feasibility Study under progress		Established	2	90%
88	Mandapeta	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
89	Tuni	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
90	Mummidivaram	12	WtC Awarded	0		Feasibility Study under progress		Established	2	90%
91	Amalapuram	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%
92	Eluru	106	WtCNG Planned	0		Feasibility Study under progress		Established	22	90%
93	Tadepalligudem	51	WtC Planned	0		Feasibility Study under progress		Established	8	90%
94	Tanuku	44	WtC Planned	0		Feasibility Study under progress		In Progress		
95	Palakollu	33	WtC Planned	0		Feasibility Study under progress		In Progress		
96	Narsapuram	29	WtC Planned	0		Feasibility Study under progress		Established	4	90%
97	Bhimavaram	69	WtC Planned	0		Feasibility Study under progress		Established	12	90%
98	Nidadavole	21	WtC Planned	0		Feasibility Study under progress		In Progress		
99	Kovvur	19	WtC Planned	0		Feasibility Study under progress		In Progress		
100	Jangareddy Gudem	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
101	Chittoor	92	WtCNG Planned	0		Feasibility Study under progress		Established	18	90%
102	SriKalahasti	39	WtC Planned	0		Feasibility Study under progress		Established	8	90%
103	Nagari	30	WtC Planned	0		Feasibility Study		In Progress		

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
						under progress				
104	Puttur	26	WtC Planned	0		Feasibility Study under progress		In Progress		
105	Nellore	300	WtCNG Planned	0		Feasibility Study under progress		In Progress		
106	Venkatagiri	25	WtC Planned	0		Feasibility Study under progress		In Progress		
107	Yerraguntla	17	WtC Planned	0		Connected to Cement Factories	1	In Progress		
108	Naidupet	22	WtC Planned	0		Feasibility Study under progress		Established	4	90%
109	Atmakur N	15	WtC Planned	0		Feasibility Study under progress		In Progress		
110	Kavali	51	WtC Planned	0		Feasibility Study under progress		Established	10	90%
111	Akiveedu	11	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
112	Kondapalli	21	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
113	Dachepali	11	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
114	Gurazala	9	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
115	Darsi	12	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
116	Buchireddy Palem	12	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
117	Penukonda	10	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
118	Bethamcharla	14	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
119	Kamlapuram	7	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
120	Kupam	15	Tenders Called for establishing Integrated Solid Waste Management Projects under PPP Mode							
Total		6850								

VI. Bio-medical Waste Management:

- Total Bio-medical generation: 27.727 Tonnes/ day
- No. of Hospitals and Health Care Facilities: 10,976 Nos.

Status of Treatment Facility/ CBMWTF	:	Presently, there are 12 Nos. of Common Bio-medical Waste Treatment Facilities (CBMWTFs) in covering total 13 Districts in Andhra Pradesh for treatment and disposal of bio-medical waste as per the BMW Management Rules 2016.
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VII. Hazardous Waste Management:

- Total Hazardous Waste generation about: 5,65,832.59 TPA as per hazardous waste inventory, 2019-20.
- **For the month of May, 2021, the Quantity of Hazardous waste Treated & Disposed is as follows:**
 - i) Utilizable waste is 10222.657 TPM (suitable to use as raw material or as alternative fuel viz. Co-processing in Cement Plants so as to conserve the resources),
 - ii) Recyclable waste is 243.166 TPM (suitable for recycling /recovery of material viz. oil reclamation units, lead and zinc recovery units),
 - iii) Incinerable waste is 319.575 TPM (not suitable for any recycling / reuse and having high calorific value i.e. > 2500 K cal/kg) and
 - iv) Land fillable waste is 16193.75 TPM (not suitable for any recycling / reuse and having low calorific value i.e. < 2500 K cal/kg) is reaching and treated at the TSDFs in Visakhapatnam and Nellore.

- **Details of on-going or proposed TSDF:**

Two TSDF are existing in the State of Andhra Pradesh

- ✓ M/s Coastal Waste Management Project Unit-1, Parwada, Visakhapatnam.
- ✓ M/s Coastal Waste Management Project Unit-2 a division of Mumbai Waste Management Limited, S.P.S.R. Nellore District.

VIII. Plastic Waste Management:

Total plastic waste generation	46,222 TPA (As per Annual Report for the F.Y. 2019-20).
Treatment / Measures adopted for reduction or management of plastic waste	<ul style="list-style-type: none">• The recyclable plastic waste generated is being sent to recycling units and the non-recyclable plastic waste is being sent to cement plants and utilizing for road construction in some ULBs. 18 Nos of recyclers registered with APPCB. Total recycling capacity is 17116 TPA.• 29 ULBs tied up with nearby Cement Plants for co-incineration of non- recyclable plastic waste and 5123 MTs of Non-recyclable plastic waste was sent to cement plants for the F.Y 2019-20.• The MA&UD and PR&RD Dept., informed that they have been conducting strict vigilance and surprise visits on those who store or use or sell or dispose plastic with less than 50 microns' thickness, for which 519 Task force teams were constituted for inspections and raids to control plastic sale and usage of less than 50 microns' thickness carry bags / films in the ULBs of A.P. About 240 tons of plastic carry bags were seized and Rs. 169 lakhs towards fine was collected.

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

Details of Faecal Sludge Treatment Plants:

No. of Completed FSTPs	:	2 (30 KLD)
No. of In-progress FSTPs	:	64 (950 KLD)
No. of FSTPs to be retendered	:	11 (175 KLD)
No. of FSTPs DPRs to be prepared	:	10

IX(A): Details of Completed FSTPs:

S.No.	Name of ULB	Capacity(in KLD)	Operational Status of FSTP
1	Narsapur	15	Operational
2	Rajam	15	Operational

IX(B): Details of In-Progress FSTPs:

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
1	Dhone	20	August-21
2	Gooty	15	Sep-21
3	Jammalamadugu	15	Sep-21
4	Kadiri	25	Sep-21
5	Kalyanadurgam	10	Sep-21
6	Madakasira	5	Sep-21
7	Paamidi	10	Sep-21
8	Pulivendula	20	Sep-21
9	Puttaparthi	10	Sep-21
10	Rayachoti	25	Sep-21
11	Rayadurg	20	Sep-21
12	Allagadda	10	Sep-21
13	Atmakur (K)	15	Sep-21
14	Badvel	25	Sep-21
15	Gudur (K)	5	Sep-21
16	Mydukuru	15	Sep-21
17	Nandikotkur	15	Sep-21
18	Palamaneru	15	Ready for inauguration
19	Punganur	15	Sep-21
20	Rajampeta	15	Sep-21
21	Yerraguntla	10	Sep-21
22	Atmakur (N)	10	Sep-21
23	Giddalur	10	Sep-21
24	Gudur (N)	20	Sep-21
25	Kandukur	20	Sep-21
26	Kanigiri	15	August-21
27	Markapur	20	June-21
28	Nagari	20	Sep-21
29	Naidupet	15	Sep-21
30	Puttur	15	Sep-21
31	Sullurpeta	15	Sep-21
32	Venkatagiri	15	Sep-21
33	Addanki	10	Sep-21
34	Bapatla	25	August -21
35	Chimakurthy	10	Sep-21
36	Chirala	25	August -21
37	Macherla	15	Sep-21
38	Mangalagiri	25	Sep-21
39	Piduguralla	15	Sep-21

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
40	Ponnur	15	August -21
41	Repalle	15	Sep-21
42	Sattenapalli	15	Sep-21
43	Vinukonda	15	Ready for inauguration
44	Amalapuram	15	Sep-21
45	Gollaprolu	5	Sep-21
46	Kovvur	10	Sep-21
47	Mandapeta	15	Sep-21
48	Mummidivaram	10	Sep-21
49	Peddapuram	15	Sep-21
50	Pithapuram	15	Sep-21
51	Ramachandrapuram	15	August -21
52	Samalkota	15	Sep-21
53	Tuni	15	Sep-21
54	Yeleshwaram	10	Sep-21
55	Amudalavalasa	10	Sep-21
56	Bobbili	15	Ready for inauguration
57	Ichapuram	10	Sep-21
58	Narsipatnam	20	Sep-21
59	Nellimarla	10	Sep-21
60	Palakonda	10	Sep-21
61	Palasa-Kasibugga	15	Sep-21
62	Parvathipuram	15	Sep-21
63	Salur	15	Sep-21
64	Yelamanchili	15	Sep-21
Total		950	

IX (C) Details of FSTPs to be Retendered:

S.No	Name of the ULB	Capacity of Plant (KLD)
1	Jangareddigudem	15
2	Nidadavolu	15
3	Palacole	20
4	Pedana	10
5	Tadepalli	20
6	Tanuku	25
7	Vuyyuru	15
8	Jaggiahpeta	15
9	Nandigama	15
10	Nuzividu	15
11	Tiruvuru	10

IX(D) Details of FSTPs DPRs to be Prepared:

S.No	Name of ULB	Status of the project
1	Akiveedu	DPR to be prepared - Newly Constituted ULB
2	Kondapalli	DPR to be prepared - Newly Constituted ULB
3	Dachepali	DPR to be prepared - Newly Constituted ULB
4	Gurazala	DPR to be prepared - Newly Constituted ULB
5	Darsi	DPR to be prepared - Newly Constituted ULB
6	Buchireddy Palem	DPR to be prepared - Newly Constituted ULB
7	Penukonda	DPR to be prepared - Newly Constituted ULB
8	Bethamcharla	DPR to be prepared - Newly Constituted ULB
9	Kamlapuram	DPR to be prepared - Newly Constituted ULB
10	Kupam	DPR to be prepared - Newly Constituted ULB

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

- A total of 32 No's of outfall points of the major disposal drains have been identified which are contributing to River Pollution. All the above 32 No's of outfall points are provided with Meshes/Screens to prevent solid waste from falling in to the Rivers.

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

Commissioner & Director of Municipal Administration Appointment as a Nodal Officer for Polluted River stretches as per G.O.RT. No: 56

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

XIII. **Latest water quality of polluted river, its tributaries, drains with flow details:**

- APPCB has been monitoring the 5 polluted river stretches at 27 locations on monthly basis and the data is being uploaded in RRC Website <https://rrc.ap.gov.in/Views/Monitoring.aspx> every month. **The monitoring of water quality data for the month of May 2021 is enclosed.**
- **As per the analysis of samples collected at 27 locations in the month of May 2021 the B.O.D value is less than 3.0 mg/lit.**

XIV. Ground water regulation:

XV. Good irrigation practices being adopted by the State:

XVI. Rain Water Harvesting:

XVII. Demarcation of Floodplain and removal of illegal encroachments:

XVIII. Maintaining minimum e-flow of river:

- XIX.** Plantation activities along the rivers:
- XX.** Development of biodiversity park:
- XXI.** Reuse of Treated Water:
- XXII.** Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:
- XXIII.** Status of Preparation of Action Plan by the 13 Coastal States:
- XXIV.** Regulation of Mining Activities in the State/UT:
- XXV.** Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring.

ANNEXURE

Water quality status of polluted river stretches in Andhra Pradesh - 2021

I. 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, Total Coliform, 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, 2021

Parameter	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Standard		
														Class A	Class B	Class C
pH	4367	7.44	7.61	7.84	8.23									6.0 - 8.5	6.0 - 9.0	
	4359	7.50	6.85	7.07	6.96											
	0014	7.52	7.52	7.53	7.22	7.76										
	1218	7.36	7.75	7.08	7.31	7.87										
	2370	7.69	7.30	6.84	7.92	7.02										
	2371	7.05	7.19	6.97	7.90	7.78										
	1219	7.25	7.21	6.83	7.59	7.02										
	4365	7.22	7.42	7.22	7.5	7.38										
	4366	7.33	7.71	7.30	7.73	7.62										
	4358	7.57	6.95	7.52	7.49	7.38										
DO	4367	5.6	5.4	6.2	6.9									6.0	5.0	4.0
	4359	8.5	8.5	8.2	8.0											
	0014	6.0	7.9	6.7	6.0	6.6										
	1218	7.0	6.2	6.4	6.3	6.5										
	2370	8.4	8.0	6.8	6.6	6.6										
	2371	7.5	6.5	6.6	6.4	6.1										
	1219	7.2	7.8	8.5	6.9	6.8										
	4365	5.8	7.2	8.0	8.5	6.6										
	4366	5.4	7.0	7.0	7.6	6.5										
	4358	5.4	6.5	5.6	5.0	6.6										
BOD	4367	1.8	2.2	2.0	1.8									2.0	3.0	3.0
	4359	1.5	1.5	2.2	1.8											
	0014	1.8	2.2	1.9	1.8	1.7										
	1218	2.0	1.0	2.0	1.5	1.7										
	2370	1.4	1.4	2.6	2.2	2.0										
	2371	1.8	2.2	2.8	2.6	2.2										
	1219	2.0	1.6	1.4	1.8	1.6										
	4365	2.0	2.0	1.5	1.5	1.8										
	4366	2.6	2.3	2.0	2.0	2.4										
	4358	2.4	1.6	1.5	2.2	1.4										

Total Coliform	4367	150	150	120	120									50	500	5000
	4359	75	39	64	60											
	0014	120	120	120	120	120										
	1218	93	93	93	93	93										
	2370	150	120	120	120	120										
	2371	210	210	150	150	150										
	1219	210	240	120	120	150										
	4365	150	150	120	150	120										
	4366	210	210	210	240	150										
	4358	93	120	73	120	120										
Fecal Coliform	4367	15	9	9	9									---	500	---
	4359	4	4	4	4											
	0014	9	9	9	15	9										
	1218	7	7	7	7	4										
	2370	9	9	9	9	9										
	2371	15	20	15	15	15										
	1219	23	23	7	9	21										
	4365	15	11	9	15	9										
	4366	23	15	11	23	15										
4358	7	7	4	9	11											
TDS	4367	420	220	444	324									500 - 2000		
	4359	120	88	84	84											
	0014	160	156	108	106	140										
	1218	156	148	102	98	120										
	2370	220	168	172	168	128										
	2371	252	228	204	202	144										
	1219	208	166	124	98	140										
	4365	10560	18848	25064	21532	22820										
	4366	23256	23572	32208	34668	23580										
4358	17392	22032	34280	29360	16280											

Note::(1) All values are expressed in mg/L except pH & Total Coliform value. Total 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 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.

NOTE: Code No's 4359 & 4367 sample was not collected due to COVID-19.

2. 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, Total Coliform, 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, 2021:

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1175	7.8	7.9	7.3	7.7	7.4								6.0 - 8.5	6.0 - 9.0	
	3083	7.7	7.4	7.6	7.7	7.7										
	4381	7.88	7.94	8.19	8.02	7.82										
	1786	7.27	7.30	8.04	7.48	7.66										
	1787	7.22	7.68	7.99	7.38	7.42										
	0025	7.76	7.80	7.92	7.42	7.56										
	4375	7.79	7.80	7.70	7.58	7.46										
	1782	7.30	7.80	7.82	7.90	7.92										

DO	1175	5.7	5.9	5.6	5.6	5.2								6.0	5.0	4.0
	3083	7.7	5.6	5.3	5.3	5.9										
	4381	7.3	7.1	7.2	7.1	7.2										
	1786	7.3	7.2	7.3	7.2	7.1										
	1787	7.1	7.2	7.3	7.2	7.3										
	0025	7.0	7.2	7.1	7.0	7.2										
	4375	7.0	7.1	7.1	7.1	7.2										
	1782	4.4	4.6	4.3	4.2	4.3										
BOD	1175	1.5	1.7	2.5	2.8	2.5								2.0	3.0	3.0
	3083	1.5	1.3	2.7	2.2	1.2										
	4381	2.8	2.8	2.8	2.4	2.6										
	1786	2.6	2.4	2.6	2.4	2.6										
	1787	2.4	2.2	2.4	2.6	2.4										
	0025	2.2	2.4	2.6	2.8	2.6										
	4375	2.0	2.2	2.4	2.6	2.6										
	1782	2.6	2.8	2.6	2.8	2.8										
Total Coliform	1175	350	280	920	920	920								50	500	5000
	3083	250	220	1600	920	540										
	4381	120	120	150	75	75										
	1786	150	120	150	120	150										
	1787	93	120	150	120	150										
	0025	120	120	120	75	75										
	4375	130	120	93	93	93										
	1782	64	93	75	75	75										

04	4389	D/S of Kurnool town A/C with domestic sewage at Gondiparla, Kurnool.
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Month-wise data of water quality of river Tungabhadra, 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1785	7.8	7.8	7.8	7.7	7.5								6.0 – 8.5	6.0 – 9.0	
	1174	7.6	7.3	7.7	7.9	7.8										
	4388	6.8	7.4	7.2	7.6	7.0										
	4389	7.1	7.1	6.9	7.6	7.1										
DO	1785	5.3	5.7	4.8	5.0	5.0								6.0	5.0	4.0
	1174	5.5	5.5	5.0	5.3	5.4										
	4388	5.3	4.5	4.3	5.5	4.1										
	4389	5.2	4.9	4.2	5.5	4.4										
BOD	1785	2.8	2.8	3.0	2.5	2.7								2.0	3.0	3.0
	1174	2.3	2.8	2.8	3	2.2										
	4388	2.3	2.7	3.0	1.8	3										
	4389	2.8	3.0	3.0	1.3	2.5										
Total Coliform	1785	540	430	430	350	540								50	500	5000
	1174	920	540	540	540	920										
	4388	430	540	920	920	1600										
	4389	540	920	920	540	920										
Fecal Coliform	1785	210	130	170	130	240								---	500	---
	1174	170	180	220	210	280										
	4388	180	180	350	280	430										
	4389	140	210	430	220	250										
TDS	1785	636	812	724	454	508								500 - 2000		
	1174	738	898	1014	1185	946										
	4388	1042	1120	1196	1325	1384										
	4389	779	921	893	1095	1098										

Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal coliform. Total 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.

4. River Nagavalli:

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, Total Coliform, 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.

Month-wise data of water quality of river Nagavali, 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard			
														Class A	Class B	Class C	
pH	4351	7.86	7.30	7.24	7.97	7.66									6.0 – 8.5	6.0 – 9.0	
	1448	7.52	7.45	6.98	8.01	7.27											
	4346	8.28	7.62	7.39	8.82	7.33											
	4347	8.10	7.69	7.32	8.37	7.24											
DO	4351	6.0	6.7	6.7	6.2	5.8									6.0	5.0	4.0
	1448	5.9	6.5	8.1	6.5	7.5											
	4346	8.4	7.5	7.5	7.4	8.0											
	4347	6.4	7.2	7.0	7.0	7.5											
BOD	4351	1.3	1.7	1.4	2.1	2.0									2.0	3.0	3.0
	1448	1.9	1.9	1.4	2.0	1.7											
	4346	1.4	2.0	1.6	1.2	1.5											
	4347	1.9	2.2	1.8	1.4	1.8											
Total Coliform	4351	210	150	150	150	150									50	500	5000
	1448	120	120	93	120	120											
	4346	120	120	120	120	120											
	4347	150	150	210	150	150											
Fecal Coliform	4351	21	15	11	15	15									----	500	----
	1448	9	11	9	9	9											
	4346	7	9	7	7	9											
	4347	11	11	15	11	15											
TDS	4351	236	240	224	260	268									500-2000		
	1448	192	240	192	280	256											
	4346	252	224	240	272	232											
	4347	280	260	264	292	276											

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

Remarks: BOD & Fecal coliform values found to within the standard limits stipulated for bathing at all the locations.

5. 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, Total Coliform, 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, 2021

Parameters	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard			
													Class A	Class B	Class C	
pH	7.5	7.6	7.3	7.9	7.8									6.0 – 8.5		6.0 – 9.0
DO	5.1	4.8	5.1	5.0	5.6									6.0	5.0	4.0
BOD	2.5	2.5	2.8	1.8	3.0									2.0	3.0	3.0
Total Coliform	920	540	920	1600	1600									50	500	5000
Fecal Coliform	350	280	240	920	350									---	500	---
TDS	446	486	512	706	746									500 - 2000		
Note: All values are expressed in mg/L except pH, Total Coliform & Fecal Coliform value. Total 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.																

CPCB Water Quality Criteria for Designated Best Use

Designated-best- use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection.	A	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 50 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 6 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 2mg/l or less.
Outdoor bathing (Organized)	B	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 500 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 5 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less.
Drinking Water Source after conventional treatment and disinfection.	C	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 5000 or less. • pH between 6 to 9 • Dissolved oxygen 4 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Propagation of Wild life and Fisheries.	D	<ul style="list-style-type: none"> • pH between 6.5 to 8.5 • Dissolved oxygen 4 mg/l or more. • Free Ammonia (as N) 1.2 mg/l or less • pH 9 between 6.0 to 8.5.
Irrigation, Industrial Cooling, Controlled Waste disposal.	E	<ul style="list-style-type: none"> • Electrical Conductivity at 25°C micro mhos/cm Max. 2250. • Sodium Absorption ratio Max. 26 • Boron Max.2 mg/l.
	Below -E	Not Meeting A, B, C, D & E Criteria.

GOVERNMENT OF ANDHRA PRADESH
MUNICIPAL ADMINISTRATION & URBAN DEVELOPMENT (UBS) DEPARTMENT

Letter No.1282446/UBS/2020

Dated: 31-05-2021

From
The Special Chief Secretary to Government,
MA & UD Department,
A.P. Secretariat,
Velagapudi,
Guntur District

To
The Secretary,
Ministry of Jal Sakti,
MoHUA.,
Government of India,
New Delhi.(w.e.)

Sir,

Sub:-MA & UD Department - National Green Tribunal – Orders of the
National Green Tribunal Principal Bench, New Delhi in OA
No.673/2018 - Monthly ProgressReport for the month of April,
2021 -Furnished – Regarding.

Ref:-Orders of the National Green Tribunal Principal Bench, New Delhi
in OA No.673/2018, dt.24.09.2020.

In compliance to the directions of the Hon'ble National Green Tribunal
Principal Bench, New Delhi in the reference cited, I am herewith enclose the Monthly
Progress Report in the prescribed format for the month of April, 2021 for taking
further necessary action.

Yours faithfully,

G. Sudha Rani

For SPECIAL CHIEF SECRETARY TO GOVERNMENT



National Mission for Clean Ganga
Format for submission of Monthly Progress Report for the
month of APRIL, 2021 in the NGT Matter OA No. 673 of 2018
(in compliance to NGT order dated 24.09.2020)

For the State of Andhra Pradesh

Overall status of the State:

- I. Total Urban Population : 1.48 Crore
- II. Estimated Sewage Generation (MLD) : 1503.20 MLD (120 ULB's)

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD) : 515.85 MLD (43No's)
- Present Gap in Treatment Capacity in MLD : 987.35 MLD
- Capacity of under construction STP's : 480.07 MLD
- STPs under tender : 51.40 MLD
- No. of Operational STPs : 43 Nos
- No. of Non-complying STPs : Nil

III (A) Details of each existing STP in the State

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Utilization capacity in MLD	Operational Status of STP	Compliance Status of STP
1	GVMC	Old town	May'2019	38.00	35.23	Operational	Comply
2		Appughar	26.09.2010	25.00	21.42	Operational	Comply
3		Mudasarlova	April'2008	13.00	9.65	Operational	Comply
4		Narava	Aug-01	54.00	22.36	Operational	Comply
5		Anakapalle	April'2018	15.00	7.55	Operational	Comply
6		Madinabagh		2.00	1.02	Operational	Comply
7		Yathapalem Colonies	April'2008	2.50	1.01	Operational	Comply
8		Gajuwaka	April'2008	0.50	0.23	Operational	Comply
9		Karnavani palem	Dec' 2019	5.00	0.0	Operational	Comply
10		Mantripalem	April' 2008	1.00	0.31	Operational	Comply
11		Aganampudi	Dec' 2015	6.00	0.0	Operational	Comply
12		Rathi Cheruvu	Sep' 2019	2.00	0.65	Operational	Comply
13		Kommadi / Madhurawada	Aug' 2018	4.00	2.10	Operational	Comply
14		Bakkannapalem	Aug' 2011	1.00	0.36	Operational	Comply
15		Marikavalasa	Dec' 2012	2.00	1.15	Operational	Comply
16		Vambay Colony	Aug' 2011	3.00	1.38	Operational	Comply
17		YSR Nagar	Aug' 2011	2.00	1.30	Operational	Comply
18		Boyapalem	Aug' 2011	1.00	0.39	Operational	Comply
		Sub Total		177.00	106.11		

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Utilization capacity in MLD	Operational Status of STP	Compliance Status of STP
19	Rajamahendravaram	Hukumpeta	03.01.2009	30.00	30.0	Operational	Comply
20	Vijayawada	Ajith Singh Nagar-1	31.05.2011	40.00	39.52	Operational	Comply
21		Ajith Singh Nagar-2	31.05.2012	20.00	20.0	Operational	Comply
22		Ramalingeswar Nagar-1	30.06.2012	20.00	19.74	Operational	Comply
23		Ramalingeswar Nagar-2	20.10.2006	10.00	9.80	Operational	Comply
24		Autonagar -1	31.03.2005	10.00	9.70	Operational	Comply
25		Autonagar -2	31.12.2018	10.00	9.80	Operational	Comply
26		Jakkampudi	31.07.2017	20.00	13.50	Operational	Comply
			Sub Total		130.00	122.06	
27	Tirupathi	Thukivakam	30.09.2018	50.00	33.0	Operational	Comply
28	Kadapa	Nanapally	02.08.2012	20.00	10.0	Partly Operational	Comply
29	Pulivendula	Rotarypuram	25.01.2009	6.50	2.50	Partly Operational	Comply
30	Tadipatri	Gannevaripalle	10.10.2010	3.50	2.50	Operational	Comply
31		Gannevaripalle	10.10.2010	8.00	4.0	Operational	Comply
		Sub Total		11.50	6.50		
32	Puttaparthi	1.Sai Nagar	20.7.2001	0.50	0.50	Operational	Comply
33		2. Gokulam	20.7.2001	0.50	0.0	Under Rehabilitation	Comply
34		3. Prasanthi Gram	20.7.2001	0.50	0.0	Under Rehabilitation	Comply
		Sub Total		1.50	0.50		
35	Narsaraopeta	CPT Road	02.02.2018	15.55	8.50	Operational	Comply
36	Nellore	Janardhan Reddy Colony		5.00	5.0	Trail Run	Comply
37		Allepuram		55.00	0.0		
38		Drivers Colony		11.00	0.0		
		Sub Total		71.00	5.0		
39	Kurnool	Jammichettu	12.03.2019	0.80	0.80	Operational	Comply
40		Sankal Bagh	12.03.2019	0.80	0.80	Operational	Comply
41		Tungabhadra PumpHouse	10.03.2018	0.80	0.80	Operational	Comply
		Sub Total		2.40	2.4		
42	Tadepalli	Mahanadu-1	10.12.2018	0.20	0.20	Operational	Comply
43		Mahanadu-2	15.12.2018	0.20	0.20	Operational	Comply
		Grand Total		515.85	326.97		

III (B) Details of under construction STPs in the State

S. No.	Location	Scheme Name	No. of STP	Capacity of the plant in MLD	Physical Progress in %	Completion Timeline
1	Yemmiganur	UIDSSMT	1	19.80	96%	August 2021
2	Srikakulam	AMRUT	1	10.00	45%	December 2021
3	Vizianagaram	AMRUT	1	5.00	55%	December 2021
4	GVMC	Smart City (Package-I)	1	54.00	52%	December 2021
5	Kakinada	AMRUT	1	5.00	37%	December 2021
6	Rajamahendravaram	AMRUT	1	5.00	6.5%	December 2021
7	Bhimavaram	AMRUT	1	5.00	42%	December 2021
8	Tadepalli gudem	AMRUT	1	5.00	0%	December 2021
9	Eluru	AMRUT	1	5.00	36%	December 2021
10	Machilipatnam	AMRUT	1	5.00	46%	December 2021
11	Gudivada	AMRUT	1	5.00	37%	December 2021
12	Vijayawada	JNNURM	1	20.00	83%	December 2021
13	Tenali	AMRUT	1	10.00	35%	December 2021
		14 FC	1	2.00	30%	December 2021
14	Ongole	AMRUT	1	15.00	60%	December 2021
15	Chilakaluripeta	AMRUT	1	5.00	21%	December 2021
16	Kavali	AMRUT	1	15.00	77%	December 2021
17	Nellore	HUDCO	2	34.00	81%	December 2021
18	Tirupati	Smart City	1	25.00	25%	December 2021
19	Srikalahasti	AMRUT	1	7.00	8%	December 2021
20	Madanapalle	AMRUT	1	5.00	20%	December 2021
21	Kadapa	AMRUT	1	20.00	0%	December 2021
22	Anantapuramu	AMRUT	1	10.00	0%	December 2021
23	Dharmavaram	AMRUT	1	15.00	0%	December 2021
24	Guntakal	AMRUT	1	8.00	0%	December 2021
25	Kurnool	AMRUT	1	2.00	50%	December 2021
		AMRUT	1	10.00	10%	December 2021
26	Nandyal	AMRUT	1	10.00	10%	December 2021
27	Adoni	AMRUT	1	5.00	20%	December 2021
28	Guntur	OTSFA	4	123.00	51%	Jun 2022
29	Pulivendula	PLAN	1	10.00	9 %	December 2022
			1	1.50		
			7 (0.5MLD x 7nos)	3.50		
			1	0.02		
			1	0.07		
			1	0.08		
			1	0.10		
Grand Total			46	480.07		

III (C) Details of Proposed STPs in the State

Phase	Description	No. of ULBs	Proposed Total STP capacities (MLD)	Cost of Total STPs (crores)
I	Municipal Corporations	16	539.00	1617.00
II	ULBs having population above 1 Lakhs	18	221.00	663.00
III	ULBs having Population ranging between 75,000 to 1 Lakh	8	43.00	114.00
IV	ULBs having Population less than 75,000	78	499	1058.00
V	Taxes and others etc @20%			781.20
	Total		1302.00	4687.20

III D) Details of STPs Under Tendering:

S. No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1	Kanigiri	6.00	Re-tenders are in Progress	Two years after date of award of the work
2	Sullurpet	8.00		
3	Allagadda	5.00		
4	Nandikotkur	5.00		
5	Madakasira	5.00		
6	Rayachoti	22.40	2 nd call No Bidders. 3 rd call Tenders are process.	
	Total	51.40		

II E) STATUS OF STPs UNDER RIVER STRETCHES:

- Total Estimated Sewage Generation (in MLD) 2020 : 302.00 MLD
- Existing no. of STP with Treatment Capacity (in MLD) : 162.40 MLD
- Present Gap in Treatment Capacity (in MLD) : 139.60 MLD
- Capacity of under Construction STPs (in MLD) : 57.00 MLD

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-IV RIVERS						
1.	Tungabhadra	Kurnool	2.40 MLD	10 MLD	10 %	DPR prepared for Rs.304.00 Crores proposed additional STPs of 78 MLD to satisfy the demand for the year 2035 and submitted to the Govt. of Andhra Pradesh for according administrative sanction. 1. At Tungabhadra Pump house-5.00 MLD 2. At Roja Dargha -3.00 MLD 3. At Roja Dargha – I -2.00 MLD 4. At Sri Chaitanya School – II- 5.00 MLD 5. At Saibaba Temple -3.00 MLD 6. At Nagasai Temple -2.00 MLD 7. At Nagasai Temple – I -3.00 MLD 8. At Law College -2.00 MLD 9. At Raghavendra Matam - 5.00 MLD 10. At Nagula Katta - 8.00 MLD 11. At Jammi Chettu - 40.00MLD Total - 78.00 MLD
				2 MLD	50%	
2	Kundu	Nandyal	0.00	10 MLD	10%	Comprehensive DPR on UGD scheme is prepared for Rs.85.00 Cr with STPs capacity of 26 (21 + 5) MLD to cater the needs of 2035 year. DPR submitted to the Govt. for according Administrative Sanction.

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-V RIVERS						
1.	Nagavali	Srikakulam	0.00	10 MLD	45%	Comprehensive proposal for providing UGD scheme for 2035 is prepared for an amount of Rs.190.36 Cr with an additional STP capacity of 12 MLD.
2.	Godavari	Rajamahendravaram	30.00	5 MLD	6.5%	DPR on Comprehensive UGD scheme prepared with additional STP's of capacity 72.37 MLD for an amount of Rs.404.00 Cr. RMC has attended the remarks and resubmitted the proposals. Now it is proposed to take up the works with an estimated cost of Rs.107.00 crores in the first year.
3.	Krishna	Vijayawada	130.00	20 MLD	83%	DPR is prepared for Rs.246.38 Cr for providing Comprehensive UGD scheme to meet the 2035 demand including up-gradation of 2 STPs of 30.00 MLD capacity.

IV. Details of Industrial Pollution:

- No. of industries in the State: 9941No's
- No. of water polluting industries in the State: 1123 No's
- Quantity of effluent generated from the industries in MLD: 4494.76 MLD

Effluent Break-Up Details:

- Once through Cooling water: 3826.13 MLD
- Trade effluents: 364.97 MLD
- cooling tower/Boiler blow down: 254.12 MLD
- Domestic waste water: 49.54 MLD

From the total waste water generation from the industries, major portion is once

through cooling water (about 85%) and temperature to be maintained for discharge of once through cooling system is not more than 5⁰C temperature of intake water.

- ✓ From the Cooling tower/Boiler blow down (about 5.6%).
 - ✓ The remaining about 9.4% is generated from Trade effluent & Domestic Discharges.
 - ✓ APPCB is not permitting to discharge industrial / trade effluents into the rivers.
- Number of industrial units having ETPs: 793 No's
 - Number of industrial units connected to CETP: 330 No's
 - i. Existing: 793 no's ETPs
 - ii. Under construction: Nil
 - iii. Proposed; Nil
 - **Compliance status of the ETPs:**
 - ✓ APPCB is regularly monitoring the compliance status of ETPs and action is being initiated for non-compliance industries.
 - Number and total capacity of CETPs (details of existing/ under construction / proposed)
 - i. Existing: 7 No's with total capacity of 31 MLD
 - ii. Under construction: 1 no's
 - 1 MLD at Menakur, Nellore District
 - iii. Proposed: 3 no's
 - 1.5 MLD at Atchuthapuram SEZ, Visakhapatnam
 - 1.5 MLD at Nakkapalli, Visakhapatnam.
 - 1.2 MLD at Chittoor District

• **Status of compliance and operation of the CETPs**

S. No.	Name and Address of the CETP & contact person	Design capacity	Current Operating capacity	Type and No. of member units	Compliance status
1.	Brandix India Apparel City Private Limited, APSEZ, Atchutapuram Pudimadaka Road, Visakhapatnam.	20 MLD	*4 MLD	Textile park- 14 units	Complied *In Brandix India Apparel City, textile industries were not established as anticipated. Hence effluent generation is less.
2.	RamkyPharma City (India) Ltd, JN PharmaCity, Parawada Mandal, Visakhapatnam.	5.0 MLD	4.8 MLD	Pharmaceutical & Bulk drugs- 92 units	Complied
3.	Kondapally Envirotech Pvt. Ltd., (KEPL), IDA, Kondapalli (V), Ibrahimpatnam (M), Krishna District.	0.2 MLD	0.15 MLD	Pharmaceutical & Bulk drugs- 13 units	Complied
4.	Vijayawada Auto Cluster Development Company, Industrial Estate, Auto Nagar, Vijayawada.	0.2 MLD	0.2 MLD	Food beverages, Herbal pharma, Oil solvents & lubricants - 38 units.	Complied
5.	Machilipatnam Imitation Jewellery Park Pvt. Ltd., Jewellery Park, Pothepalli, Machilipatnam.	0.07 MLD	0.002 MLD	Electro Plating - 48 Units	Complied
6.	Nagari Dyeing Owners Association, Chinthalapatteda (V), Nagari (M), Chittoor District.	4 MLD	0.8 MLD	Manual Dyeing units - 105 units	Complied
7.	Atchuthapuram Effluent Treatment Plant, Atchutapuram Visakhapatnam.	1.5 MLD	1.5 MLD	Pharmaceutical & Bulk drugs- 20 units	Complied

V. Solid Waste Management:

- Total number of Urban Local Bodies: **120** and their Population: **1.48** Crore
- Current Municipal Solid Waste Generation: **6850** TPD. for 120 ULBs (10 Newly Constituted ULBs – These ULBs have not yet developed urban Dynamics).
- 2 Waste to Energy Projects covering 13 ULBs are in progress with an installed capacity of 1500 TPD (30 MW),
- 30 Wet Waste Projects covering 33 ULBs treating 1400 TPD with an installed capacity of 1600 TPD are existing.
- 20 Wet Waste Projects covering 20 ULBs are in progress with an installed capacity of 500 TPD.
- Tenders were called for selection of agencies to establish ISWM projects in 72 ULBs under PPP mode.
- 76 Material Recovery facilities covering 76 ULBs treating 810 TPD with an installed capacity of 1000 TPD Existing.
- 44 Material Recovery facilities covering 44 ULBs are in progress with an installed capacity of 500 TPD.
- 3 Construction and Demolition waste processing plants in Greater Visakhapatnam Municipal Corporation, Vijayawada Municipal Corporation and Tirupati Municipal Corporation treating 100 TPD with an installed capacity of 200 TPD are existing.
- The Source Segregation in the State is 82.16 % and capacity utilization of the treatment units is the same percentage, Ward Secretariats and volunteer system established and unique in the State are ensuring 99 % door to door collection.
- Total no. of wards: 3634. No. of wards having door to door collection service: 3634. No. of wards practicing segregation at source: 2944
- 114 Dumpsites with an area of 1000 acres are existing in the state. Out of which remediation of 4 dumpsites in 4 ULBs (Visakhapatnam, Vijayawada, Tirupati and Tanuku) are under progress.
- No Dumpsites of legacy waste are within 1km buffer of both sides of the rivers in the State.

Status of ULB wise Management of Solid Waste:

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
1	Amudalavalasa	19	Existing WtC	10	85%	Vizag WtE		Established	4	85%
2	Ichchapuram	18	Existing WtC	10	85%	Feasibility Study under progress		Established	2	85%
3	Palasa-kasibugga	28	Existing WtC	15	80%	Feasibility Study under progress		In Progress		
4	Rajam	21	Existing WtC	12	80%	Vizag WtE		Established	4	85%
5	Bobbili	29	Existing WtC	16	90%	Vizag WtE		Established	8	85%
6	Salur	24	Existing WtC	13	90%	Vizag WtE		Established	6	90%
7	GVMC	918	Existing WtC	505	85%	Vizag WtE		Established	300	85%
8	Narsipatnam	30	Existing WtC	17	80%	Vizag WtE		Established	8	85%
9	Yellamanchali	23	Existing WtC	13	80%	Vizag WtE		Established	4	85%
10	Adoni	81	Existing WtCNG	45	80%	Connected to Cement Factories	3	Established	20	85%
11	Nuzivid	29	Existing WtC	16	80%	Guntur WtE		In Progress		
12	Thiruvuru	17	Existing WtCNG	9	80%	Guntur WtE		Established	2	85%
13	Tenali	80	Existing WtC	44	90%	Guntur WtE		Established	20	90%
14	Sattenpalle	28	WtCNG - Piduguralla	15	85%	Guntur WtE		Established	6	85%
15	Narsaraopet	57	WtCNG - Piduguralla	31	85%	Guntur WtE		Established	16	85%
16	Piduguralla	31	Existing WtCNG	17	85%	Guntur WtE		In Progress		
17	Allagadda	20	Existing WtC	11	85%	Connected to Cement Factories	1	Established	4	85%
18	Rayadurgam	30	Existing WtC	17	85%	RDF in progress		Established	6	85%
19	Puttaparty	15	Existing WtC	8	85%	RDF in progress		Established	2	85%

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
20	Yemmiganur	46	WtCNG - Adoni	25	85%	RDF in progress		Established	10	85%
21	Anantapur	131	WtCNG Planned	0		Connected to Cement Factories	8	Established	35	90%
22	Atmakur K	22	WtC Awarded	0		Connected to Cement Factories	1	Established	4	90%
23	Badvel	35	WtC Planned	0		Connected to Cement Factories	2	In Progress		
24	Dhone	29	WtC Planned	0		Connected to Cement Factories	2	Established	6	90%
25	Markapur	35	Existing WtC	19	80%	Feasibility Study under progress		Established	8	85%
26	Giddalur	19	Existing WtC	10	85%	RDF in progress		Established	4	85%
27	Kanigiri	22	Existing WtC	12	85%	Feasibility Study under progress		Established	4	85%
28	Chirala	42	Existing WtC	23	90%	Guntur WtE		Established	9	90%
29	Gudivada	58	WtCNG awarded	0		RDF Connected / Guntur WtE	3	Established	14	90%
30	Palamaneru	25	Existing WtC	14	85%	Feasibility Study under progress		In Progress		
31	Punganur	27	Existing WtC	15	80%	Feasibility Study under progress		Established	6	85%
32	Madanpalle	67	Existing WtCNG	37	85%	RDF in progress		In Progress		
33	Sullurpet	22	Existing WtC	12	80%	Feasibility Study under progress		Established	4	85%
34	Srikakulam	65	WtCNG Planned	0		Vizag WtE		Established	16	90%
35	Palakonda	16	WtC Awarded	0		Vizag WtE		In Progress		
36	Vizianagaram	119	WtCNG Planned	0		Vizag WtE		Established	30	90%
37	Parvathipuram	26	WtC Awarded	0		Vizag WtE		In Progress		

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
38	Nellimarla	14	WtC Planned	0		Vizag WtE		Established	2	90%
39	Gudur N	36	WtC Planned	0		Connected to Cement Factories	2	In Progress		
40	Guntakal	62	WtC Planned	0		Connected to Cement Factories	2	Established	14	90%
41	Jaggiahpet	26	WtCNG awarded	0		RDF Connected / Guntur WtE	1	In Progress		
42	Jammalamadugu	22	Existing WtC	12	80%	Connected to Cement Factories	1	In Progress		
43	Pedana	16	WtC Awarded	0		Guntur WtE		In Progress		
44	Vuyyuru	20	WtC Awarded	0		Guntur WtE		In Progress		
45	Guntur	363	WtCNG Planned	0		Guntur WtE		Established	80	90%
46	Tadepalle	34	WtC Planned	0		Guntur WtE		Established	8	90%
47	Ponnur	29	WtC Planned	0		Guntur WtE		Established	6	90%
48	Chilakaluripet	49	WtC Planned	0		Guntur WtE		Established	12	90%
49	Mangalagiri	36	WtC Planned	0		Guntur WtE		Established	8	90%
50	Bapatla	34	WtCNG awarded	0		Guntur WtE		Established	8	90%
51	Repalle	25	WtC Awarded	0		Guntur WtE		Established	4	90%
52	Vinukonda	30	WtCNG awarded	0		Guntur WtE		In Progress		
53	Macherla	28	WtC Awarded	0		Feasibility Study under progress		Established	6	90%
54	Kadapa	167	WtCNG Planned	0		Connected to Cement Factories	6	Established	40	90%
55	Dharmavaram	62	WtC Planned	0		RDF in progress		In Progress		
56	Kadiri	43	WtC Awarded	0		Connected to Cement Factories	1	Established	8	90%
57	Gooty	24	WtC Planned	0		RDF in progress		Established	4	90%
58	Pamidi	14	WtC Planned	0		RDF in progress		In Progress		

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
59	Hindupur	74	WtC Awarded	0		RDF inprogress		In Progress		
60	Kurnool	224	WtCNG Planned	0		Connected to Cement Factories	2	In Progress		
61	Kalyandurgam	21	WtC Awarded	0		RDF inprogress		Established	2	90%
62	Madakasira	12	WtC Awarded	0		RDF inprogress		Established	2	90%
63	Machilipatnam	89	WtC Awarded	0		RDF Connected / Guntur WtE	3	Established	20	90%
64	Mydukur	22	WtC Planned	0		Connected to Cement Factories	1	In Progress		
65	Nandigama	22	WtCNG awarded	0		RDF Connected / Guntur WtE	1	In Progress		
66	Nandikotkur	23	WtC Planned	0		Connected to Cement Factories	1	Established	4	90%
67	Gudur K	14	WtC Planned	0		RDF inprogress		In Progress		
68	Nandyal	98	WtCNG Planned	0		Connected to Cement Factories	3	In Progress		
69	Proddutur	79	WtCNG Planned	0		Connected to Cement Factories	2	In Progress		
70	Pulivendula	32	Existing WtC	18	85%	Connected to Cement Factories	2	Established	6	85%
71	Rajahmundry	168	WtCNG Planned	0		Connected to Cement Factories	3	Established	40	90%
72	Rajampeta	23	WtC Planned	0		Connected to Cement Factories	1	In Progress		
73	Rayachoti	44	WtC Planned	0		Connected to Cement Factories	2	Established	8	90%
74	Tadipatri	53	Existing WtC	29	90%	Connected to	2	Established	10	90%

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
						Cement Factories				
75	Tirupati	208	Existing WtCNG	114	85%	Connected to Cement Factories	4	Established	45	85%
76	Ongole	123	WtCNG awarded	0		Guntur WtE		Established	30	90%
77	Chimakurthy	17	WtC Awarded	0		Guntur WtE		In Progress		
78	Addanki	20	WtC Awarded	0		Guntur WtE		Established	4	90%
79	Kandukur	28	WtC Awarded	0		Feasibility Study under progress		Established	6	90%
80	Kakinada	159	WtCNG Planned	0		Feasibility Study under progress		Established	35	90%
81	Vijayawada	507	Existing WtC	279	85%	RDF Connected / Guntur WtE	6	Established	150	85%
82	Gollaprolu	11	WtC Planned	0		Feasibility Study under progress		In Progress		
83	Pithapuram	25	WtC Planned	0		Feasibility Study under progress		Established	3	90%
84	Peddapuram	24	WtC Planned	0		Feasibility Study under progress		Established	3	90%
85	Samalkota	28	WtC Planned	0		Feasibility Study under progress		Established	4	90%
86	Yeleswaram	16	WtC Planned	0		Feasibility Study under progress		Established	2	90%
87	Ramachandrapuram	21	WtC Planned	0		Feasibility Study under progress		Established	2	90%
88	Mandapeta	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
89	Tuni	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization	Dry Waste Processing	
											Feasibility Study under progress	Established
90	Mummidivaram	12	WIC Awarded	0		Feasibility Study under progress		Established	2	90%		
91	Amalapuram	26	WIC Awarded	0		Feasibility Study under progress		Established	3	90%		
92	Eluru	106	WICNG Planned	0		Feasibility Study under progress		Established	22	90%		
93	Tadepalligudem	51	WIC Planned	0		Feasibility Study under progress		Established	8	90%		
94	Tanuku	44	WIC Planned	0		Feasibility Study under progress		In Progress				
95	Palakollu	33	WIC Planned	0		Feasibility Study under progress		In Progress				
96	Narsapuram	29	WIC Planned	0		Feasibility Study under progress		Established	4	90%		
97	Bhimavaram	69	WIC Planned	0		Feasibility Study under progress		Established	12	90%		
98	Nidadavole	21	WIC Planned	0		Feasibility Study under progress		In Progress				
99	Kovvur	19	WIC Planned	0		Feasibility Study under progress		In Progress				
100	Jangareddy Gudem	26	WIC Planned	0		Feasibility Study under progress		Established	4	90%		
101	Chittoor	92	WICNG Planned	0		Feasibility Study under progress		Established	18	90%		
102	SriKalahasti	39	WIC Planned	0		Feasibility Study under progress		Established	8	90%		
103	Nagarjuna	30	WIC Planned	0		Feasibility Study under progress		In Progress				

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
						under progress				
104	Puttur	26	WtC Planned	0		Feasibility Study under progress		In Progress		
105	Nellore	300	WtCNG Planned	0		Feasibility Study under progress		In Progress		
106	Venkatagiri	25	WtC Planned	0		Feasibility Study under progress		In Progress		
107	Yerraguntla	17	WtC Planned	0		Connected to Cement Factories	1	In Progress		
108	Naidupet	22	WtC Planned	0		Feasibility Study under progress		Established	4	90%
109	Atmakur N	15	WtC Planned	0		Feasibility Study under progress		In Progress		
110	Kavali	51	WtC Planned	0		Feasibility Study under progress		Established	10	90%
111	Akiveedu	11				DPR under Progress - Newly Constituted ULB				
112	Kondapalli	21				DPR under Progress - Newly Constituted ULB				
113	Dachepali	11				DPR under Progress - Newly Constituted ULB				
114	Gurazala	9				DPR under Progress - Newly Constituted ULB				
115	Darsi	12				DPR under Progress - Newly Constituted ULB				
116	Buchireddy Palem	12				DPR under Progress - Newly Constituted ULB				
117	Penukonda	10				DPR under Progress - Newly Constituted ULB				
118	Bethamcharla	14				DPR under Progress - Newly Constituted ULB				
119	Kamlapuram	7				DPR under Progress - Newly Constituted ULB				
120	Kupam	15				DPR under Progress - Newly Constituted ULB				
Total		6850								

VI. Bio-medical Waste Management:

- Total Bio-medical generation: 20.3 Tonnes/ day
- No. of Hospitals and Health Care Facilities: 11,046 Nos.

Status of Treatment Facility/ CBMWTF	:	Presently, there are 12 Nos. of Common Bio-medical Waste Treatment Facilities (CBMWTFs) in covering total 13 Districts in Andhra Pradesh for treatment and disposal of bio-medical waste
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VII. Hazardous Waste Management:

- Total Hazardous Waste generation about: 5,65,832.59 TPA as per hazardous waste inventory, 2019-20.
- **For the month of April, 2021, the Quantity of Hazardous waste Treated & Disposed is as follows:**

- i) Utilizable waste is 8298.31 TPM (suitable to use as raw material or as alternative fuel viz. Co-processing in Cement Plants so as to conserve the resources),
- ii) Recyclable waste is 157.08 TPM (suitable for recycling /recovery of material viz. oil reclamation units, lead and zinc recovery units),
- iii) Incinerable waste is 278.00 TPM (not suitable for any recycling / reuse and having high calorific value i.e. > 2500 K cal/kg) and
- iv) Land fillable waste is 13678.15 TPM (not suitable for any recycling / reuse and having low calorific value i.e. < 2500 K cal/kg) is reaching and treated at the TSDFs in Visakhapatnam and Nellore.

- **Details of on-going or proposed TSDF:**

Two TSDF are existing in the State of Andhra Pradesh

- ✓ M/s Coastal Waste Management Project Unit-1, Parwada, Visakhapatnam.
- ✓ M/s Coastal Waste Management Project Unit-2 a division of Mumbai Waste Management Limited, S.P.S.R. Nellore District.

VIII. Plastic Waste Management:

Total plastic waste generation	46,222 TPA (As per Annual Report for the F.Y. 2019-20).
Treatment / Measures adopted for reduction or management of plastic waste	<ul style="list-style-type: none"> • The recyclable plastic waste generated is being sent to recycling units and the non-recyclable plastic waste is being sent to cement plants and utilizing for road construction in some ULBs. 18 Nos of recyclers registered with APPCB. Total recycling capacity is 17116 TPA. • 29 ULBs tied up with nearby Cement Plants for co-incineration of non- recyclable plastic waste and 5123 MTs of Non-recyclable plastic waste was sent to cement plants for the F.Y 2019-20. • The MA&UD and PR&RD Dept., informed that they have been conducting strict vigilance and surprise visits on those who store or use or sell or dispose plastic with less than 50 microns' thickness, for which 519 Task force teams were constituted for inspections and raids to control plastic sale and usage of less than 50 microns thickness carry bags / films in the ULBs of A.P. About 239 tons of plastic carry bags were seized and Rs. 169 lakhs towards fine was collected.

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

Details of Faecal Sludge Treatment Plants:

No. of Completed FSTPs	:	2 (30 KLD)
No. of In-progress FSTPs	:	64 (950 KLD)
No. of FSTPs to be retendered	:	11 (175 KLD)
No. of FSTPs DPRs to be prepared	:	10

IX (A): Details of Completed FSTPs:

S.No.	Name of ULB	Capacity(in KLD)	Operational Status of FSTP
1	Narsapur	15	Operational
2	Rajam	15	Operational

IX (B): Details of In-Progress FSTPs:

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
1	Dhone	20	June 21
2	Gooty	15	Sep-21
3	Jammalamadugu	15	Sep-21
4	Kadiri	25	Sep-21
5	Kalyanadurgam	10	Sep-21
6	Madakasira	5	Sep-21
7	Paamidi	10	Sep-21
8	Pulivendula	20	Sep-21
9	Puttaparthi	10	Sep-21
10	Rayachoti	25	Sep-21
11	Rayadurg	20	Sep-21
12	Allagadda	10	Sep-21
13	Atmakur (K)	15	Sep-21
14	Badvel	25	Sep-21
15	Gudur (K)	5	Sep-21
16	Mydukuru	15	Sep-21
17	Nandikotkur	15	Sep-21
18	Palamaneru	15	Ready for inauguration
19	Punganur	15	Sep-21
20	Rajampeta	15	Sep-21
21	Yerraguntla	10	Sep-21
22	Atmakur (N)	10	Sep-21
23	Giddalur	10	Sep-21
24	Gudur (N)	20	Sep-21
25	Kandukur	20	Sep-21
26	Kanigiri	15	Sep-21
27	Markapur	20	June-21
28	Nagari	20	Sep-21
29	Naidupet	15	Sep-21
30	Puttur	15	Sep-21
31	Sullurpeta	15	Sep-21
32	Venkatagiri	15	Sep-21
33	Addanki	10	Sep-21
34	Bapatla	25	June-21
35	Chimakurthy	10	Sep-21
36	Chirala	25	June-21
37	Macherla	15	Sep-21
38	Mangalagiri	25	Sep-21
39	Piduguralla	15	Sep-21

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
40	Ponnur	15	June-21
41	Repalle	15	Sep-21
42	Sattenapalli	15	Sep-21
43	Vinukonda	15	Ready for inauguration
44	Amalapuram	15	Sep-21
45	Gollaprolu	5	Sep-21
46	Kovvur	10	Sep-21
47	Mandapeta	15	Sep-21
48	Mummidivaram	10	Sep-21
49	Peddapuram	15	Sep-21
50	Pithapuram	15	Sep-21
51	Ramachandrapuram	15	May-21
52	Samalkota	15	Sep-21
53	Tuni	15	Sep-21
54	Yeleshwaram	10	Sep-21
55	Amudalavalasa	10	Sep-21
56	Bobbili	15	Ready for inauguration
57	Ichapuram	10	Sep-21
58	Narsipatnam	20	Sep-21
59	Nellimarla	10	Sep-21
60	Palakonda	10	Sep-21
61	Palasa-Kasibugga	15	Sep-21
62	Parvathipuram	15	Sep-21
63	Salur	15	Sep-21
64	Yelamanchili	15	Sep-21
Total		950	

IX (C) Details of FSTPs to be Retendered:

S.No	Name of the ULB	Capacity of Plant (KLD)
1	Jangareddigudem	15
2	Nidadavolu	15
3	Palacole	20
4	Pedana	10
5	Tadepalli	20
6	Tanuku	25
7	Vuyyuru	15
8	Jaggaihpeta	15
9	Nandigama	15
10	Nuzividu	15
11	Tiruvuru	10

IX (D) Details of FSTPs DPRs to be Prepared:

S.No	Name of ULB	Status of the project
1	Akiveedu	DPR to be prepared - Newly Constituted ULB
2	Kondapalli	DPR to be prepared - Newly Constituted ULB
3	Dachepali	DPR to be prepared - Newly Constituted ULB
4	Gurazala	DPR to be prepared - Newly Constituted ULB
5	Darsi	DPR to be prepared - Newly Constituted ULB
6	Buchireddy Palem	DPR to be prepared - Newly Constituted ULB
7	Penukonda	DPR to be prepared - Newly Constituted ULB
8	Bethamcharla	DPR to be prepared - Newly Constituted ULB
9	Kamlapuram	DPR to be prepared - Newly Constituted ULB
10	Kupam	DPR to be prepared - Newly Constituted ULB

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

- A total of 32 No's of outfall points of the major disposal drains have been identified which are contributing to River Pollution. All the above 32 No's of outfall points are provided with Meshes/Screens to prevent solid waste from falling in to the Rivers.

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

Commissioner & Director of Municipal Administration Appointment as a Nodal Officer for Polluted River stretches as per G.O.RT. No: 56

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

XIII. Latest water quality of polluted river, its tributaries, drains with flow details:

- APPCB has been monitoring the 5 polluted river stretches at 27 locations on monthly basis and the data is being uploaded in RRC Website <https://rrc.ap.gov.in/Views/Monitoring.aspx> every month. The monitoring of water quality data for the month of April 2021 is enclosed.
- As per the analysis of samples collected at 27 locations in the month of April 2021 the B.O.D value is less than 3.0 mg/lit.

XIV. Ground water regulation:

XV. Good irrigation practices being adopted by the State:

XVI. Rain Water Harvesting:

XVII. Demarcation of Floodplain and removal of illegal encroachments:

XVIII. Maintaining minimum e-flow of river:

- XIX.** Plantation activities along the rivers:
- XX.** Development of biodiversity park:
- XXI.** Reuse of Treated Water:
- XXII.** Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:
- XXIII.** Status of Preparation of Action Plan by the 13 Coastal States:
- XXIV.** Regulation of Mining Activities in the State/UT:
- XXV.** Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring.

ENCLOSURES

ANNEXURE

Water quality status of polluted river stretches in Andhra Pradesh - 2021

I. 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, Total Coliform, 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, Goyalanka, East Godavari Dist.

Month-wise data of water quality of river Godavari, 2021

Parameter	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Standard		
														Class A	Class B	Class C
pH	4367	7.44	7.61	7.84	8.23									6.0 - 8.5	6.0 - 9.0	
	4359	7.50	6.85	7.07	6.96											
	0014	7.52	7.52	7.53	7.22											
	1218	7.36	7.75	7.08	7.31											
	2370	7.69	7.30	6.84	7.92											
	2371	7.05	7.19	6.97	7.90											
	1219	7.25	7.21	6.83	7.59											
	4365	7.22	7.42	7.22	7.5											
	4366	7.33	7.71	7.30	7.73											
	4358	7.57	6.95	7.52	7.49											
DO	4367	5.6	5.4	6.2	6.9									6.0	5.0	4.0
	4359	8.5	8.5	8.2	8.0											
	0014	6.0	7.9	6.7	6.0											
	1218	7.0	6.2	6.4	6.3											
	2370	8.4	8.0	6.8	6.6											
	2371	7.5	6.5	6.6	6.4											
	1219	7.2	7.8	8.5	6.9											
	4365	5.8	7.2	8.0	8.5											
	4366	5.4	7.0	7.0	7.6											
	4358	5.4	6.5	5.6	5.0											
BOD	4367	1.8	2.2	2.0	1.8									2.0	3.0	3.0
	4359	1.5	1.5	2.2	1.8											
	0014	1.8	2.2	1.9	1.8											
	1218	2.0	1.0	2.0	1.5											
	2370	1.4	1.4	2.6	2.2											
	2371	1.8	2.2	2.8	2.6											
	1219	2.0	1.6	1.4	1.8											
	4365	2.0	2.0	1.5	1.5											
	4366	2.6	2.3	2.0	2.0											
	4358	2.4	1.6	1.5	2.2											

Total Coliform	4367	150	150	120	120										50	500	5000
	4359	75	39	64	60												
	0014	120	120	120	120												
	1218	93	93	93	93												
	2370	150	120	120	120												
	2371	210	210	150	150												
	1219	210	240	120	120												
	4365	150	150	120	150												
	4366	210	210	210	240												
	4358	93	120	73	120												
Fecal Coliform	4367	15	9	9	9										---	500	---
	4359	4	4	4	4												
	0014	9	9	9	15												
	1218	7	7	7	7												
	2370	9	9	9	9												
	2371	15	20	15	15												
	1219	23	23	7	9												
	4365	15	11	9	15												
	4366	23	15	11	23												
	4358	7	7	4	9												
TDS	4367	420	220	444	324										500 - 2000		
	4359	120	88	84	84												
	0014	160	156	108	106												
	1218	156	148	102	98												
	2370	220	168	172	168												
	2371	252	228	204	202												
	1219	208	166	124	98												
	4365	10560	18848	25064	21532												
	4366	23256	23572	32208	34668												
	4358	17392	22032	34280	29360												

Note: (1) All values are expressed in mg/L except pH & Total Coliform value. Total 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 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.

2. 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, Total Coliform, 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, 2021:

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1175	7.8	7.9	7.3	7.7									6.0 - 8.5	6.0 - 9.0	
	3083	7.7	7.4	7.6	7.7											
	4381	7.88	7.94	8.19	8.02											
	1786	7.27	7.30	8.04	7.48											
	1787	7.22	7.68	7.99	7.38											
	0025	7.76	7.80	7.92	7.42											
	4375	7.79	7.80	7.70	7.58											
	1782	7.30	7.80	7.82	7.90											

DO	1175	5.7	5.9	5.6	5.6									6.0	5.0	4.0
	3083	7.7	5.6	5.3	5.3											
	4381	7.3	7.1	7.2	7.1											
	1786	7.3	7.2	7.3	7.2											
	1787	7.1	7.2	7.3	7.2											
	0025	7.0	7.2	7.1	7.0											
	4375	7.0	7.1	7.1	7.1											
	1782	4.4	4.6	4.3	4.2											
BOD	1175	1.5	1.7	2.5	2.8									2.0	3.0	3.0
	3083	1.5	1.3	2.7	2.2											
	4381	2.8	2.8	2.8	2.4											
	1786	2.6	2.4	2.6	2.4											
	1787	2.4	2.2	2.4	2.6											
	0025	2.2	2.4	2.6	2.8											
	4375	2.0	2.2	2.4	2.6											
	1782	2.6	2.8	2.6	2.8											
Total Coliform	1175	350	280	920	920									50	500	5000
	3083	250	220	1600	920											
	4381	120	120	150	75											
	1786	150	120	150	120											
	1787	93	120	150	120											
	0025	120	120	120	75											
	4375	130	120	93	93											
	1782	64	93	75	75											

3. 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, Total Coliform, 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	U/S of Kurnool town B/C with domestic sewage & A/c of Rayalaseema alkalies industries at Gondiparla, Kurnool.
04	4389	D/S of Kurnool town A/C with domestic sewage at Gondiparla, Kurnool.

Month-wise data of water quality of river Tungabhadra, 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1785	7.8	7.8	7.8	7.7									6.0 – 8.5	6.0 – 9.0	
	1174	7.6	7.3	7.7	7.9											
	4388	6.8	7.4	7.2	7.6											
	4389	7.1	7.1	6.9	7.6											
DO	1785	5.3	5.7	4.8	5.0									6.0	5.0	4.0
	1174	5.5	5.5	5.0	5.3											
	4388	5.3	4.5	4.3	5.5											
	4389	5.2	4.9	4.2	5.5											
BOD	1785	2.8	2.8	3.0	2.5									2.0	3.0	3.0
	1174	2.3	2.8	2.8	3											
	4388	2.3	2.7	3.0	1.8											
	4389	2.8	3.0	3.0	1.3											
Total Coliform	1785	540	430	430	350									50	500	5000

	1174	920	540	540	540												
	4388	430	540	920	920												
	4389	540	920	920	540												
Fecal Coliform	1785	210	130	170	130												
	1174	170	180	220	210									---	500	---	
	4388	180	180	350	280												
	4389	140	210	430	220												
TDS	1785	636	812	724	454												
	1174	738	898	1014	1185												
	4388	1042	1120	1196	1325												
	4389	779	921	893	1095												
Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal coliform. Total 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.																	

4. River Nagavali:

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, Total Coliform, 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.

Month-wise data of water quality of river Nagavali, 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	4351	7.86	7.30	7.24	7.97									6.0 – 8.5	6.0 – 9.0	
	1448	7.52	7.45	6.98	8.01											
	4346	8.28	7.62	7.39	8.82											
	4347	8.10	7.69	7.32	8.37											
DO	4351	6.0	6.7	6.7	6.2									6.0	5.0	4.0
	1448	5.9	6.5	8.1	6.5											
	4346	8.4	7.5	7.5	7.4											
	4347	6.4	7.2	7.0	7.0											
BOD	4351	1.3	1.7	1.4	2.1									2.0	3.0	3.0
	1448	1.9	1.9	1.4	2.0											
	4346	1.4	2.0	1.6	1.2											
	4347	1.9	2.2	1.8	1.4											
Total Coliform	4351	210	150	150	150									50	500	5000
	1448	120	120	93	120											
	4346	120	120	120	120											
	4347	150	150	210	150											
Fecal Coliform	4351	21	15	11	15									---	500	---
	1448	9	11	9	9											
	4346	7	9	7	7											
	4347	11	11	15	11											
TDS	4351	236	240	224	260									500-2000		
	1448	192	240	192	280											
	4346	252	224	240	272											
	4347	280	260	264	292											

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

Remarks: BOD & Fecal coliform values found to within the standard limits stipulated for bathing at all the locations.

5. 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, Total Coliform, 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, 2021

Parameters	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard			
													Class A	Class B	Class C	
pH	7.5	7.6	7.3	7.9										6.0 – 8.5		6.0 – 9.0
DO	5.1	4.8	5.1	5.0										6.0	5.0	4.0
BOD	2.5	2.5	2.8	1.8										2.0	3.0	3.0
Total Coliform	920	540	920	1600										50	500	5000
Fecal Coliform	350	280	240	920										---	500	---
TDS	446	486	512	706										500 - 2000		
Note: All values are expressed in mg/L except pH, Total Coliform & Fecal Coliform value. Total 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.																

CPCB Water Quality Criteria for Designated Best Use

Designated-best- use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection.	A	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 50 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 6 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 2mg/l or less.
Outdoor bathing (Organized)	B	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 500 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 5 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less.
Drinking Water Source after conventional treatment and disinfection.	C	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 5000 or less. • pH between 6 to 9 • Dissolved oxygen 4 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Propagation of Wild life and Fisheries.	D	<ul style="list-style-type: none"> • pH between 6.5 to 8.5 • Dissolved oxygen 4 mg/l or more. • Free Ammonia (as N) 1.2 mg/l or less • pH 9 between 6.0 to 8.5.
Irrigation, Industrial Cooling, Controlled Waste disposal.	E	<ul style="list-style-type: none"> • Electrical Conductivity at 25°C micro mhos/cm Max. 2250. • Sodium Absorption ratio Max. 26 • Boron Max.2 mg/l.
	Below -E	Not Meeting A, B, C, D & E Criteria.

GOVERNMENT OF ANDHRA PRADESH
MUNICIPAL ADMINISTRATION & URBAN DEVELOPMENT (UBS) DEPARTMENT

Letter No.1282446/UBS/2020, Dated: 03-05-2021

From
The Special Chief Secretary to Government,
MA & UD Department,
A.P. Secretariat,
Velagapudi,
Guntur District

To
The Secretary,
Ministry of Jal Sakti,
MoHUA.,
Government of India,
New Delhi.(w.e.)

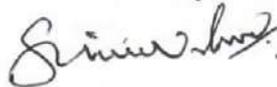
Sir,

Sub:-MA & UD Department - National Green Tribunal – Orders of the
National Green Tribunal Principal Bench, New Delhi in OA
No.673/2018 - Monthly Progress Report for the month of March,
2021 - Furnished – Regarding.

Ref:-Orders of the National Green Tribunal Principal Bench, New Delhi
in OA No.673/2018, dt.24.09.2020.

In compliance to the directions of the Hon'ble National Green Tribunal
Principal Bench, New Delhi in the reference cited, I am herewith enclose the Monthly
Progress Report in the prescribed format for the month of March, 2021 for taking
further necessary action.

Yours faithfully,



For SPECIAL CHIEF SECRETARY TO GOVERNMENT

National Mission for Clean Ganga
Format for submission of Monthly Progress Report for
the month of MARCH, 2021 in the NGT Matter OA No. 673 of
2018 (in compliance to NGT order dated 24.09.2020)

For the State of Andhra Pradesh

Overall status of the State:

- I. Total Urban Population: 1.48 Crore
- II. Estimated Sewage Generation (MLD) : 1503.20 MLD (120 ULB's)

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD) : 515.85 MLD (43No's)
- Present Gap in Treatment Capacity in MLD : 987.35 MLD
- Capacity of under construction STP's : 480.07 MLD
- STPs under tender : 51.40 MLD
- No. of Operational STPs : 43 Nos
- No. of Non-complying STPs : Nil

III (A) Details of each existing STP in the State

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Utilization capacity in MLD	Operational Status of STP	Compliance Status of STP
1	GVMC	Old town	May'2019	38.00	35.23	Operational	Comply
2		Appughar	26.09.2010	25.00	21.42	Operational	Comply
3		Mudasarlova	April'2008	13.00	9.65	Operational	Comply
4		Narava	Aug-01	54.00	22.36	Operational	Comply
5		Anakapalle	April'2018	15.00	7.55	Operational	Comply
6		Madinabagh			2.00	1.02	Operational

7		Yathapalem Colonies	April'2008	2.50	1.01	Operational	Comply
8		Gajuwaka	April'2008	0.50	0.23	Operational	Comply
9		Karnavanipalem	Dec' 2019	5.00	0.0	Operational	Comply
10		Mantripalem	April' 2008	1.00	0.31	Operational	Comply
11		Aganampudi	Dec' 2015	6.00	0.0	Operational	Comply
12		Rathi Cheruvu	Sep' 2019	2.00	0.65	Operational	Comply
13		Kommadi / Madhurawada	Aug' 2018	4.00	2.10	Operational	Comply
14		Bakkannapalem	Aug' 2011	1.00	0.36	Operational	Comply
15		Marikavalasa	Dec' 2012	2.00	1.15	Operational	Comply
16		Vambay Colony	Aug' 2011	3.00	1.38	Operational	Comply
17		YSR Nagar	Aug' 2011	2.00	1.30	Operational	Comply
18		Boyapalem	Aug' 2011	1.00	0.39	Operational	Comply
			Sub Total	177.00	106.11		
Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Utilization capacity in MLD	Operational Status of STP	Compliance Status of STP
19	Rajamahendravaram	Hukumpeta	03.01.2009	30.00	30.0	Operational	Comply
20	Vijayawada	Ajith Singh Nagar-1	31.05.2011	40.00	39.52	Operational	Comply
21		Ajith Singh Nagar-2	31.05.2012	20.00	20.0	Operational	Comply
22		Ramalingeswar Nagar-1	30.06.2012	20.00	19.74	Operational	Comply
23		Ramalingeswar Nagar-2	20.10.2006	10.00	9.80	Operational	Comply
24		Autonagar -1	31.03.2005	10.00	9.70	Operational	Comply
25		Autonagar -2	31.12.2018	10.00	9.80	Operational	Comply
26		Jakkampudi	31.07.2017	20.00	13.50	Operational	Comply
				Sub Total	130.00	122.06	
27	Tirupathi	Thukivakam	30.09.2018	50.00	33.0	Operational	Comply
28	Kadapa	Nanapally	02.08.2012	20.00	10.0	Partly Operational	Comply
29	Pulivendula	Rotarypuram	25.01.2009	6.50	2.50	Partly Operational	Comply
30	Tadipatri	Gannevaripalle	10.10.2010	3.50	2.50	Operational	Comply
31		Gannevaripalle	10.10.2010	8.00	4.0	Operational	Comply
			Sub Total	11.50	6.50		

32	Puttaparth	1.Sai Nagar	20.7.2001	0.50	0.50	Operational	Comply
33		2. Gokulam	20.7.2001	0.50	0.0	Under Rehabilitation	Comply
34		3. Prasanthi Gram	20.7.2001	0.50	0.0	Under Rehabilitation	Comply
			Sub Total	1.50	0.50		
35	Narsaraopeta	CPT Road	02.02.2018	15.55	8.50	Operational	Comply
36	Nellore	Janardhan Reddy Colony		5.00	5.0	Trail Run	Comply
37		Allepuram		55.00	0.0		
38		Drivers Colony		11.00	0.0		
			Sub Total	71.00	5.0		
39	Kurnool	Jammichettu	12.03.2019	0.80	0.80	Operational	Comply
40		Sankal Bagh	12.03.2019	0.80	0.80	Operational	Comply
41		Tungabhadra PumpHouse	10.03.2018	0.80	0.80	Operational	Comply
			Sub Total	2.40	2.4		
42	Tadepalli	Mahanadu-1	10.12.2018	0.20	0.20	Operational	Comply
43		Mahanadu-2	15.12.2018	0.20	0.20	Operational	Comply
			Grand Total	515.85	326.97		

III (B) Details of under construction STPs in the State

S.No.	Location	Scheme Name	No. of STP	Capacity of the plant in MLD	Physical Progress in %	Completion Timeline
1	Yemmiganur	UIDSSMT	1	19.80	96%	August 2021
2	Srikakulam	AMRUT	1	10.00	45%	December2021
3	Vizianagaram	AMRUT	1	5.00	55%	December2021
4	GVMC	Smart City (Package-I)	1	54.00	52%	December2021
5	Kakinada	AMRUT	1	5.00	37%	December2021
6	Rajamahendravaram	AMRUT	1	5.00	5%	December2021
7	Bhimavaram	AMRUT	1	5.00	42%	December2021
8	Tadepalligudem	AMRUT	1	5.00	0%	December2021
9	Eluru	AMRUT	1	5.00	35%	December2021
10	Machilipatnam	AMRUT	1	5.00	46%	December2021
11	Gudivada	AMRUT	1	5.00	35%	December2021
12	Vijayawada	JNNURM	1	20.00	83%	December2021
13	Tenali	AMRUT	1	10.00	35%	December2021
		14 FC	1	2.00	30%	December2021
14	Ongole	AMRUT	1	15.00	59%	December2021
15	Chilakaluripeta	AMRUT	1	5.00	21%	December2021
16	Kavali	AMRUT	1	15.00	77%	December2021
17	Nellore	HUDCO	2	34.00	81%	December2021
18	Tirupati	Smart City	1	25.00	25%	December2021
19	Srikalahasti	AMRUT	1	7.00	8%	December2021
20	Madanapalle	AMRUT	1	5.00	20%	December2021
21	Kadapa	AMRUT	1	20.00	0%	December2021
22	Anantapuramu	AMRUT	1	10.00	0%	December2021
23	Dharmavaram	AMRUT	1	15.00	0%	December2021
24	Guntakal	AMRUT	1	8.00	0%	December2021
25	Kurnool	AMRUT	1	2.00	50%	December2021
		AMRUT	1	10.00	10%	December2021
26	Nandyal	AMRUT	1	10.00	10%	December2021
27	Adoni	AMRUT	1	5.00	20%	December2021
28	Guntur	OTSFA	4	123.00	51%	Jun2022
29	Pulivendula	PLAN	1	10.00	5%	December2022
			1	1.50		
			7 (0.5MLD x 7nos)	3.50		
			1	0.02		
			1	0.07		
			1	0.08		
			1	0.10		
Grand Total			46	480.07		

III (C) Details of Proposed STPs in the State

Phase	Description	No. of ULBs	Proposed Total STP capacities (MLD)	Cost of Total STPs (crores)
I	Municipal Corporations	16	539.00	1617.00
II	ULBs having population above 1 Lakhs	18	221.00	663.00
III	ULBs having Population ranging between 75,000 to 1 Lakh	8	43.00	114.00
IV	ULBs having Population less than 75,000	78	499	1058.00
V	Taxes and others etc @20%			781.20
	Total		1302.00	4687.20

III D) Details of STPs Under Tendering:

S.No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1	Kanigiri	6.00	Re-tenders are in Progress	Two years after date of award of the work
2	Sullurpet	8.00		
3	Allagadda	5.00		
4	Nandikotkur	5.00		
5	Madakasira	5.00		
6	Rayachoti	22.40	2 nd call No Bidders. 3 rd call Tenders are process.	
	Total	51.40		

II E) STATUS OF STPs UNDER RIVER STRETCHES:

- Total Estimated Sewage Generation (in MLD) 2020:302.00 MLD
- Existing no. of STP with Treatment Capacity (in MLD) :162.40 MLD
- Present Gap in Treatment Capacity (in MLD) : 139.60 MLD
- Capacity of under Construction STPs (in MLD) : 57.00 MLD

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-IV RIVERS						

1.	Tungabhadra	Kurnool	2.40MLD	10 MLD	10 %	<p>DPR prepared for Rs.304.00 Crores proposed additional STPs of 78 MLD to satisfy the demand for the year 2035 and submitted to the Govt. of Andhra Pradesh for according administrative sanction.</p> <p>1. At Tungabhadra Pump house-5.00 MLD</p> <p>2. At Roja Dargha -3.00 MLD</p> <p>3. At Roja Dargha – I -2.00 MLD</p> <p>4. At Sri Chaitanya School – II- 5.00 MLD</p> <p>5. At Saibaba Temple -3.00 MLD</p> <p>6. At Nagasai Temple -2.00 MLD</p> <p>7. At Nagasai Temple – I -3.00 MLD</p> <p>8. At Law College -2.00 MLD</p> <p>9. At Raghavendra Matam - 5.00 MLD</p> <p>10. At Nagula Katta - 8.00 MLD</p> <p>11. At Jammi Chettu -<u>40.00MLD</u></p> <p>Total - <u>78.00 MLD</u></p>
				2 MLD	50%	
2	Kundu	Nandyal	0.00	10 MLD	10%	<p>Comprehensive DPR on UGD scheme is prepared for Rs.85.00 Cr with STPs capacity of 26 (21 + 5) MLD to cater the needs of 2035 year. DPR submitted to the Govt. for according Administrative Sanction.</p>

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-V RIVERS						
1.	Nagavali	Srikakulam	0.00	10 MLD	45%	Comprehensive proposal for providing UGD scheme for 2035 is prepared for an amount of Rs.190.36 Cr with an additional STP capacity of 12 MLD.
2.	Godavari	Rajamahendravaram	30.00	5 MLD	5%	DPR on Comprehensive UGD scheme prepared with additional STP's of capacity 72.37 MLD for an amount of Rs.404.00 Cr. RMC has attended the remarks and resubmitted the proposals. Now it is proposed to take up the works with an estimated cost of Rs.107.00 crores in the first year.
3.	Krishna	Vijayawada	130.00	20 MLD	83%	DPR is prepared for Rs.246.38 Cr for providing Comprehensive UGD scheme to meet the 2035 demand including up-gradation of 2 STPs of 30.00 MLD capacity.

IV. Details of Industrial Pollution:

- No. of industries in the State: 9941No's
- No. of water polluting industries in the State: 1123 No's
- Quantity of effluent generated from the industries in MLD: 4494.76 MLD

Effluent Break-Up Details:

- Once through Cooling water: 3826.13 MLD
- Trade effluents: 364.97 MLD
- cooling tower/Boiler blow down: 254.12 MLD
- Domestic waste water: 49.54 MLD

From the total waste water generation from the industries, major portion is once

through cooling water (about 85%) and temperature to be maintained for discharge of once through cooling system is not more than 5⁰C temperature of intake water.

- ✓ From the Cooling tower/Boiler blow down (about 5.6%).
 - ✓ The remaining about 9.4% is generated from Trade effluent & Domestic Discharges.
 - ✓ APPCB is not permitting to discharge industrial / trade effluents into the rivers.
- Number of industrial units having ETPs: 793 No's
 - Number of industrial units connected to CETP: 330 No's
 - i. Existing: 793 no's ETPs
 - ii. Under construction: Nil
 - iii. Proposed; Nil
 - **Compliance status of the ETPs:**
 - ✓ APPCB is regularly monitoring the compliance status of ETPs and action is being initiated for non-compliance industries.
 - Number and total capacity of CETPs (details of existing/ under construction / proposed)
 - i. Existing: 7 No's with total capacity of 31 MLD
 - ii. Under construction: 1 no's
 - 1 MLD at Menakur, Nellore District
 - iii. Proposed: 3 no's
 - 1.5 MLD at Atchuthapuram SEZ, Visakhapatnam
 - 1.5 MLD at Nakkapalli, Visakhapatnam.
 - 1.2 MLD at Chittoor District

• **Status of compliance and operation of the CETPs**

S.No	Name and Address of the CETP & contact person	Design capacity	Current Operating capacity	Type and No. of member units	Compliance status
1.	Brandix India Apparel City Private Limited, APSEZ, Atchutapuram Pudimadaka Road, Visakhapatnam.	20 MLD	*4 MLD	Textile park- 14 units	Complied *In Brandix India Apparel City, textile industries were not established as anticipated. Hence effluent generation is less.
2.	RamkyPharma City (India) Ltd, JN PharmaCity, Parawada Mandal, Visakhapatnam.	5.0 MLD	4.8 MLD	Pharmaceutical & Bulk drugs- 92 units	Complied
3.	Kondapally Envirotech Pvt. Ltd., (KEPL), IDA, Kondapalli(V), Ibrahimpatnam (M), Krishna District.	0.2 MLD	0.15 MLD	Pharmaceutical & Bulk drugs- 13 units	Complied
4.	Vijayawada Auto Cluster Development Company, Industrial Estate, Auto Nagar, Vijayawada.	0.2 MLD	0.2 MLD	Food beverages, Herbal pharma, Oil solvents & lubricants - 38 units.	Complied
5.	Machilipatnam Imitation Jewellery Park Pvt. Ltd., Jewellery Park, Potheipalli, Machilipatnam.	0.07 MLD	0.002 MLD	Electro Plating - 48 Units	Complied
6.	Nagari Dyeing Owners Association, Chinthalapatteda (V), Nagari (M), Chittoor District.	4 MLD	0.8 MLD	Manual Dyeing units - 105 units	Complied
7.	Atchuthapuram Effluent Treatment Plant, Atchutapuram Visakhapatnam.	1.5 MLD	1.5 MLD	Pharmaceutical & Bulk drugs- 20 units	Complied

V. Solid Waste Management:

- Total number of Urban Local Bodies: **120** and their Population: **1.48** Crore
- Current Municipal Solid Waste Generation: **6850** TPD. for 120 ULBs (10 Newly Constituted ULBs – These ULBs have not yet developed urban Dynamics).
- 2 Waste to Energy Projects covering 13 ULBs are in progress with an installed capacity of 1500 TPD (30 MW),
- 30 Wet Waste Projects covering 33 ULBs treating 1400 TPD with an installed capacity of 1600 TPD are existing.
- 23 Wet Waste Projects covering 24 ULBs are in progress with an installed capacity of 500 TPD.
- 53 Wet Waste Projects (43 compost and 10 Biomethanation) covering 53 ULBs are proposed and RFP process is in progress and Feasibility study for dry waste management in the 53 ULBs is under progress
- Detailed Project Reports are being prepared for Waste Treatment units in the Newly Constituted ULBs.
- 76 Material Recovery facilities covering 76 ULBs treating 810 TPD with an installed capacity of 1000 TPD Existing.
- 44 Material Recovery facilities covering 44 ULBs are in progress with an installed capacity of 500 TPD.
- 3 Construction and Demolition waste processing plants in Greater Visakhapatnam Municipal Corporation, Vijayawada Municipal Corporation and Tirupati Municipal Corporation treating 100 TPD with an installed capacity of 200 TPD are existing.
- The Source Segregation in the State is 81 % and capacity utilization of the treatment units is the same percentage, Ward Secretariats and volunteer system established and unique in the State are ensuring 99 % door to door collection.
- Total no. of wards: 3634. No. of wards having door to door collection service: 3634. No. of wards practicing segregation at source: 2944
- 114 Dumpsites with an area of 1000 acres are existing in the state. Out of which remediation of 4 dumpsites in 4 ULBs (Visakhapatnam, Vijayawada, Tirupati and Tanuku) are under progress.
- No Dumpsites of legacy waste are within 1km buffer of both side of the rivers in the State.

Status of ULB wise Management of Solid Waste:

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
1	Amudalavalasa	19	Existing WtC	10	85%	Vizag WtE		Established	4	85%
2	Ichchapuram	18	Existing WtC	10	85%	Feasibility Study under progress		Established	2	85%
3	Palasa-kasibugga	28	Existing WtC	15	80%	Feasibility Study under progress		In Progress		
4	Rajam	21	Existing WtC	12	80%	Vizag WtE		Established	4	85%
5	Bobbili	29	Existing WtC	16	90%	Vizag WtE		Established	8	85%
6	Salur	24	Existing WtC	13	90%	Vizag WtE		Established	6	90%
7	GVMC	918	Existing WtC	505	85%	Vizag WtE		Established	300	85%
8	Narsipatnam	30	Existing WtC	17	80%	Vizag WtE		Established	8	85%
9	Yellamanchali	23	Existing WtC	13	80%	Vizag WtE		Established	4	85%
10	Adoni	81	Existing WtCNG	45	80%	Connected to Cement Factories	3	Established	20	85%
11	Nuzivid	29	Existing WtC	16	80%	Guntur WtE		In Progress		
12	Thiruvuru	17	Existing WtCNG	9	80%	Guntur WtE		Established	2	85%
13	Tenali	80	Existing WtC	44	90%	Guntur WtE		Established	20	90%
14	Sattenpalle	28	WtCNG - Piduguralla	15	85%	Guntur WtE		Established	6	85%
15	Narsaraopet	57	WtCNG - Piduguralla	31	85%	Guntur WtE		Established	16	85%
16	Piduguralla	31	Existing WtCNG	17	85%	Guntur WtE		In Progress		
17	Allagadda	20	Existing WtC	11	85%	Connected to Cement Factories	1	Established	4	85%
18	Rayadurgam	30	Existing WtC	17	85%	RDF inprogress		Established	6	85%
19	Puttaparty	15	Existing WtC	8	85%	RDF inprogress		Established	2	85%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
20	Yemmiganur	46	WtCNG - Adoni	25	85%	RDF inprogress		Established	10	85%
21	Anantapur	131	WtCNG Planned	0		Connected to Cement Factories	8	Established	35	90%
22	Atmakur K	22	WtC Awarded	0		Connected to Cement Factories	1	Established	4	90%
23	Badvel	35	WtC Planned	0		Connected to Cement Factories	2	In Progress		
24	Dhone	29	WtC Planned	0		Connected to Cement Factories	2	Established	6	90%
25	Markapur	35	Existing WtC	19	80%	Feasibility Study under progress		Established	8	85%
26	Giddalur	19	Existing WtC	10	85%	RDF inprogress		Established	4	85%
27	Kanigiri	22	Existing WtC	12	85%	Feasibility Study under progress		Established	4	85%
28	Chirala	42	Existing WtC	23	90%	Guntur WtE		Established	9	90%
29	Gudivada	58	WtCNG awarded	0		RDF Connected / Guntur WtE	3	Established	14	90%
30	Palamaneru	25	Existing WtC	14	85%	Feasibility Study under progress		In Progress		
31	Punganur	27	Existing WtC	15	80%	Feasibility Study under progress		Established	6	85%
32	Madanpalle	67	Existing WtCNG	37	85%	RDF inprogress		In Progress		
33	Sullurpet	22	Existing WtC	12	80%	Feasibility Study under progress		Established	4	85%
34	Srikakulam	65	WtCNG Planned	0		Vizag WtE		Established	16	90%
35	Palakonda	16	WtC Awarded	0		Vizag WtE		In Progress		
36	Vizianagaram	119	WtCNG Planned	0		Vizag WtE		Established	30	90%
37	Parvathipuram	26	WtC Awarded	0		Vizag WtE		In Progress		

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
38	Nellimarla	14	WtC Planned	0		Vizag WtE		Established	2	90%
39	Gudur N	36	WtC Planned	0		Connected to Cement Factories	2	In Progress		
40	Guntakal	62	WtC Planned	0		Connected to Cement Factories	2	Established	14	90%
41	Jaggaiahpet	26	WtCNG awarded	0		RDF Connected / Guntur WtE	1	In Progress		
42	Jammalamadugu	22	Existing WtC	12	80%	Connected to Cement Factories	1	In Progress		
43	Pedana	16	WtC Awarded	0		Guntur WtE		In Progress		
44	Vuyyuru	20	WtC Awarded	0		Guntur WtE		In Progress		
45	Guntur	363	WtCNG Planned	0		Guntur WtE		Established	80	90%
46	Tadepalle	34	WtC Planned	0		Guntur WtE		Established	8	90%
47	Ponnur	29	WtC Planned	0		Guntur WtE		Established	6	90%
48	Chilakaluripet	49	WtC Planned	0		Guntur WtE		Established	12	90%
49	Mangalagiri	36	WtC Planned	0		Guntur WtE		Established	8	90%
50	Bapatla	34	WtCNG awarded	0		Guntur WtE		Established	8	90%
51	Repalle	25	WtC Awarded	0		Guntur WtE		Established	4	90%
52	Vinukonda	30	WtCNG awarded	0		Guntur WtE		InProgress		
53	Macherla	28	WtC Awarded	0		Feasibility Study under progress		Established	6	90%
54	Kadapa	167	WtCNG Planned	0		Connected to Cement Factories	6	Established	40	90%
55	Dharmavaram	62	WtC Planned	0		RDF in progress		In Progress		
56	Kadiri	43	WtC Awarded	0		Connected to Cement Factories	1	Established	8	90%
57	Gooty	24	WtC Planned	0		RDF in progress		Established	4	90%
58	Pamidi	14	WtC Planned	0		RDF inprogress		In Progress		

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
59	Hindupur	74	WtC Awarded	0		RDF inprogress		In Progress		
60	Kurnool	224	WtCNG Planned	0		Connected to Cement Factories	2	In Progress		
61	Kalyandurgam	21	WtC Awarded	0		RDF inprogress		Established	2	90%
62	Madakasira	12	WtC Awarded	0		RDF inprogress		Established	2	90%
63	Machilipatnam	89	WtC Awarded	0		RDF Connected / Guntur WtE	3	Established	20	90%
64	Mydukur	22	WtC Planned	0		Connected to Cement Factories	1	In Progress		
65	Nandigama	22	WtCNG awarded	0		RDF Connected / Guntur WtE	1	In Progress		
66	Nandikotkur	23	WtC Planned	0		Connected to Cement Factories	1	Established	4	90%
67	Gudur K	14	WtC Planned	0		RDF inprogress		In Progress		
68	Nandyal	98	WtCNG Planned	0		Connected to Cement Factories	3	In Progress		
69	Proddatur	79	WtCNG Planned	0		Connected to Cement Factories	2	In Progress		
70	Pulivendula	32	Existing WtC	18	85%	Connected to Cement Factories	2	Established	6	85%
71	Rajahmundry	168	WtCNG Planned	0		Connected to Cement Factories	3	Established	40	90%
72	Rajampeta	23	WtC Planned	0		Connected to Cement Factories	1	In Progress		
73	Rayachoti	44	WtC Planned	0		Connected to Cement Factories	2	Established	8	90%
74	Tadipatri	53	Existing WtC	29	90%	Connected to	2	Established	10	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
						Cement Factories				
75	Tirupati	208	Existing WtCNG	114	85%	Connected to Cement Factories	4	Established	45	85%
76	Ongole	123	WtCNG awarded	0		Guntur WtE		Established	30	90%
77	Chimakurthy	17	WtC Awarded	0		Guntur WtE		In Progress		
78	Addanki	20	WtC Awarded	0		Guntur WtE		Established	4	90%
79	Kandukur	28	WtC Awarded	0		Feasibility Study under progress		Established	6	90%
80	Kakinada	159	WtCNG Planned	0		Feasibility Study under progress		Established	35	90%
81	Vijayawada	507	Existing WtC	279	85%	RDF Connected / Guntur WtE	6	Established	150	85%
82	Gollaprolu	11	WtC Planned	0		Feasibility Study under progress		In Progress		
83	Pithapuram	25	WtC Planned	0		Feasibility Study under progress		Established	3	90%
84	Peddapuram	24	WtC Planned	0		Feasibility Study under progress		Established	3	90%
85	Samalkota	28	WtC Planned	0		Feasibility Study under progress		Established	4	90%
86	Yeleswaram	16	WtC Planned	0		Feasibility Study under progress		Established	2	90%
87	Ramachandrapuram	21	WtC Planned	0		Feasibility Study under progress		Established	2	90%
88	Mandapeta	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
89	Tuni	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
90	Mummidivaram	12	WtC Awarded	0		Feasibility Study under progress		Established	2	90%
91	Amalapuram	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%
92	Eluru	106	WtCNG Planned	0		Feasibility Study under progress		Established	22	90%
93	Tadepalligudem	51	WtC Planned	0		Feasibility Study under progress		Established	8	90%
94	Tanuku	44	WtC Planned	0		Feasibility Study under progress		In Progress		
95	Palakollu	33	WtC Planned	0		Feasibility Study under progress		In Progress		
96	Narsapuram	29	WtC Planned	0		Feasibility Study under progress		Established	4	90%
97	Bhimavaram	69	WtC Planned	0		Feasibility Study under progress		Established	12	90%
98	Nidadavole	21	WtC Planned	0		Feasibility Study under progress		In Progress		
99	Kovvur	19	WtC Planned	0		Feasibility Study under progress		In Progress		
100	Jangareddy Gudem	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
101	Chittoor	92	WtCNG Planned	0		Feasibility Study under progress		Established	18	90%
102	SriKalahasti	39	WtC Planned	0		Feasibility Study under progress		Established	8	90%
103	Nagari	30	WtC Planned	0		Feasibility Study		In Progress		

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
						under progress				
104	Puttur	26	WtC Planned	0		Feasibility Study under progress		In Progress		
105	Nellore	300	WtCNG Planned	0		Feasibility Study under progress		In Progress		
106	Venkatagiri	25	WtC Planned	0		Feasibility Study under progress		In Progress		
107	Yerraguntla	17	WtC Planned	0		Connected to Cement Factories	1	In Progress		
108	Naidupet	22	WtC Planned	0		Feasibility Study under progress		Established	4	90%
109	Atmakur N	15	WtC Planned	0		Feasibility Study under progress		In Progress		
110	Kavali	51	WtC Planned	0		Feasibility Study under progress		Established	10	90%
111	Akiveedu	11				DPR under Progress - Newly Constituted ULB				
112	Kondapalli	21				DPR under Progress - Newly Constituted ULB				
113	Dachepali	11				DPR under Progress - Newly Constituted ULB				
114	Gurazala	9				DPR under Progress - Newly Constituted ULB				
115	Darsi	12				DPR under Progress - Newly Constituted ULB				
116	BuchireddyPale m	12				DPR under Progress - Newly Constituted ULB				
117	Penukonda	10				DPR under Progress - Newly Constituted ULB				
118	Bethamcharla	14				DPR under Progress - Newly Constituted ULB				
119	Kamlapuram	7				DPR under Progress - Newly Constituted ULB				
120	Kupam	15				DPR under Progress - Newly Constituted ULB				
Total		6850								

VI. Bio-medical Waste Management:

- Total Bio-medical generation: 15.13 Tonnes/ day
- No. of Hospitals and Health Care Facilities: 10,844 Nos.

Status of Treatment Facility/ CBMWTF	:	Presently, there are 12 Nos. of Common Bio-medical Waste Treatment Facilities (CBMWTFs) in covering total 13 Districts in Andhra Pradesh for treatment and disposal of bio-medical waste
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VII. Hazardous Waste Management:

- Total Hazardous Waste generation about: 5,65,832.60 TPA as per hazardous waste inventory, 2019-20.

Break-up details:

- Utilizable waste is 10908.422 TPM (suitable to use as raw material or as alternative fuel viz. Co-processing in Cement Plants so as to conserve the resources),
 - Recyclable waste is 112.651 TPM (suitable for recycling /recovery of material viz. oil reclamation units, lead and zinc recovery units),
 - Incinerable waste is 305.54 TPM (not suitable for any recycling / reuse and having high calorific value i.e. > 2500 K cal/kg) and
 - Land fillable waste is 20746.861 TPM (not suitable for any recycling / reuse and having low calorific value i.e. < 2500 K cal/kg) is reaching and treated at the TSDFs in Visakhapatnam and Nellore.
- No. of Industries generating Hazardous waste: 2648 Nos. as per hazardous waste inventory, 2019-20.

• Details of on-going or proposed TSDF:

Two TSDF are existing in the State of Andhra Pradesh

- ✓ M/s Coastal Waste Management Project Unit-1, Parwada, Visakhapatnam.
- ✓ M/s Coastal Waste Management Project Unit-2 a division of Mumbai Waste Management Limited, S.P.S.R. Nellore District.

VIII. Plastic Waste Management:

Total plastic waste generation	46,222 TPA (As per Annual Report for the F.Y. 2019-20).
Treatment / Measures adopted for reduction or management of plastic waste	<ul style="list-style-type: none">• The recyclable plastic waste generated is being sent to recycling units and the non-recyclable plastic waste is being sent to cement plants and utilizing for road construction in some ULBs. 18 Nos of recyclers registered with APPCB. Total recycling capacity is 17116 TPA.• 29 ULBs tied up with nearby Cement Plants for co-incineration of non- recyclable plastic waste and 5123 MTs of Non-recyclable plastic waste was sent to cement plants for the F.Y 2019-20.• The MA&UD and PR&RD Dept., informed that they have been conducting strict vigilance and surprise visits on those who store or use or sell or dispose plastic with less than 50 microns' thickness, for which 519 Task force teams were constituted for inspections and raids to control plastic sale and usage of less than 50 microns thickness carry bags / films in the ULBs of A.P. About 239 tons of plastic carry bags were seized and Rs. 169 lakhs towards fine was collected.

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

Details of Faecal Sludge Treatment Plants:

No. of Completed FSTPs	:	2 (30 KLD)
No. of In-progress FSTPs	:	64 (950 KLD)
No. of FSTPs to be retendered	:	11 (175 KLD)
No. of FSTPs DPRs to be prepared	:	10

IX(A): Details of Completed FSTPs:

S.No.	Name of ULB	Capacity(in KLD)	Operational Status of FSTP
1	Narsapur	15	Operational
2	Rajam	15	Operational

IX(B): Details of In-Progress FSTPs:

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
1	Dhone	20	May-21
2	Gooty	15	Sep-21
3	Jammalamadugu	15	Sep-21
4	Kadiri	25	Sep-21
5	Kalyanadurgam	10	Sep-21
6	Madakasira	5	Sep-21
7	Paamidi	10	Sep-21
8	Pulivendula	20	Sep-21
9	Puttaparthi	10	Sep-21
10	Rayachoti	25	Sep-21
11	Rayadurg	20	Sep-21
12	Allagadda	10	Sep-21
13	Atmakur (K)	15	Sep-21
14	Badvel	25	Sep-21
15	Gudur (K)	5	Sep-21
16	Mydukuru	15	Sep-21
17	Nandikotkur	15	Sep-21
18	Palamaneru	15	April -21 (Ready for inauguration)
19	Punganur	15	Sep-21
20	Rajampeta	15	Sep-21
21	Yerraguntla	10	Sep-21
22	Atmakur (N)	10	Sep-21
23	Giddalur	10	Sep-21
24	Gudur (N)	20	Sep-21
25	Kandukur	20	Sep-21
26	Kanigiri	15	Sep-21
27	Markapur	20	May-21
28	Nagari	20	Sep-21
29	Naidupet	15	Sep-21
30	Puttur	15	Sep-21
31	Sullurpeta	15	Sep-21
32	Venkatagiri	15	Sep-21
33	Addanki	10	Sep-21
34	Bapatla	25	May-21
35	Chimakurthy	10	Sep-21
36	Chirala	25	May-21
37	Macherla	15	Sep-21
38	Mangalagiri	25	Sep-21
39	Piduguralla	15	Sep-21

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
40	Ponnur	15	May-21
41	Repalle	15	Sep-21
42	Sattenapalli	15	Sep-21
43	Vinukonda	15	April -21 (Ready for inauguration)
44	Amalapuram	15	Sep-21
45	Gollaprolu	5	Sep-21
46	Kovvur	10	Sep-21
47	Mandapeta	15	Sep-21
48	Mummidivaram	10	Sep-21
49	Peddapuram	15	Sep-21
50	Pithapuram	15	Sep-21
51	Ramachandrapuram	15	May-21
52	Samalkota	15	Sep-21
53	Tuni	15	Sep-21
54	Yeleshwaram	10	Sep-21
55	Amudalavalasa	10	Sep-21
56	Bobbili	15	April -21 (Ready for inauguration)
57	Ichapuram	10	Sep-21
58	Narsipatnam	20	Sep-21
59	Nellimarla	10	Sep-21
60	Palakonda	10	Sep-21
61	Palasa-Kasibugga	15	Sep-21
62	Parvathipuram	15	Sep-21
63	Salur	15	Sep-21
64	Yelamanchili	15	Sep-21
Total		950	

IX (C) Details of FSTPs to be Retendered:

S.No	Name of the ULB	Capacity of Plant (KLD)
1	Jangareddigudem	15
2	Nidadavolu	15
3	Palacole	20
4	Pedana	10
5	Tadepalli	20
6	Tanuku	25
7	Vuyyuru	15
8	Jaggaihpeta	15
9	Nandigama	15
10	Nuzividu	15
11	Tiruvuru	10

IX(D) Details of FSTPs DPRs to be Prepared:

S.No	Name of ULB	Status of the project
1	Akiveedu	DPR to be prepared - Newly Constituted ULB
2	Kondapalli	DPR to be prepared - Newly Constituted ULB
3	Dachepali	DPR to be prepared - Newly Constituted ULB
4	Gurazala	DPR to be prepared - Newly Constituted ULB
5	Darsi	DPR to be prepared - Newly Constituted ULB
6	BuchireddyPalem	DPR to be prepared - Newly Constituted ULB
7	Penukonda	DPR to be prepared - Newly Constituted ULB
8	Bethamcharla	DPR to be prepared - Newly Constituted ULB
9	Kamlapuram	DPR to be prepared - Newly Constituted ULB
10	Kupam	DPR to be prepared - Newly Constituted ULB

- X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment:
- A total of 32 No's of outfall points of the major disposal drains have been identified which are contributing to River Pollution. All the above 32 No's of outfall points are provided with Meshes/Screens to prevent solid waste from falling in to the Rivers.
- XI. **Details of Nodal Officer appointed by Chief Secretary in the State/UT:**
Commissioner & Director of Municipal Administration Appointment as a Nodal Officer for Polluted river stretches as per G.O.RT. No: 56
- XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:
- XIII. **Latest water quality of polluted river, its tributaries, drains with flow details:**
- APPCB has been monitoring the 5 polluted river stretches at 27 locations on monthly basis and the data is being uploaded in RRC Website <https://rrc.ap.gov.in/Views/Monitoring.aspx> every month. **The monitoring of water quality data for the month of March 2021 is enclosed.**
 - **As per the analysis of samples collected at 27 locations in the month of March 2021 the B.O.D value is less than 3.0 mg/lit.**
- XIV. Ground water regulation:
- XV. Good irrigation practices being adopted by the State:
- XVI. Rain Water Harvesting:
- XVII. Demarcation of Floodplain and removal of illegal encroachments:
- XVIII. Maintaining minimum e-flow of river:

- XIX.** Plantation activities along the rivers:
- XX.** Development of biodiversity park:
- XXI.** Reuse of Treated Water:
- XXII.** Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:
- XXIII.** Status of Preparation of Action Plan by the 13 Coastal States:
- XXIV.** Regulation of Mining Activities in the State/UT:
- XXV.** Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring.

ENCLOSURES

ANNEXURE

Water quality status of polluted river stretches in Andhra Pradesh - 2021

I. 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, 2021 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, 2021

Parameter	Code	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Dec	Standard		
														Class A	Class B	Class C
pH	4367	7.44	7.61	7.84										6.0 - 8.5	6.0 - 9.0	
	4359	7.50	6.85	7.07												
	0014	7.52	7.52	7.53												
	1218	7.36	7.75	7.08												
	2370	7.69	7.30	6.84												
	2371	7.05	7.19	6.97												
	1219	7.25	7.21	6.83												
	4365	7.22	7.42	7.22												
	4366	7.33	7.71	7.30												
	4358	7.57	6.95	7.52												
DO	4367	5.6	5.4	6.2										6.0	5.0	4.0
	4359	8.5	8.5	8.2												
	0014	6.0	7.9	6.7												
	1218	7.0	6.2	6.4												
	2370	8.4	8.0	6.8												
	2371	7.5	6.5	6.6												
	1219	7.2	7.8	8.5												
	4365	5.8	7.2	8.0												
	4366	5.4	7.0	7.0												
	4358	5.4	6.5	5.6												
BOD	4367	1.8	2.2	2.0										2.0	3.0	3.0
	4359	1.5	1.5	2.2												
	0014	1.8	2.2	1.9												
	1218	2.0	1.0	2.0												
	2370	1.4	1.4	2.6												
	2371	1.8	2.2	2.8												
	1219	2.0	1.6	1.4												
	4365	2.0	2.0	1.5												
	4366	2.6	2.3	2.0												
	4358	2.4	1.6	1.5												

2. 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, 2021 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, 2021:

Parameters	Code	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1175	7.8	7.9	7.3										6.0 - 8.5	6.0 - 9.0	
	3083	7.7	7.4	7.6												
	4381	7.88	7.94	8.19												
	1786	7.27	7.30	8.04												
	1787	7.22	7.68	7.99												
	0025	7.76	7.80	7.92												
	4375	7.79	7.80	7.70												
	1782	7.30	7.80	7.82												

DO	1175	5.7	5.9	5.6											6.0	5.0	4.0
	3083	7.7	5.6	5.3													
	4381	7.3	7.1	7.2													
	1786	7.3	7.2	7.3													
	1787	7.1	7.2	7.3													
	0025	7.0	7.2	7.1													
	4375	7.0	7.1	7.1													
	1782	4.4	4.6	4.3													
BOD	1175	1.5	1.7	2.5											2.0	3.0	3.0
	3083	1.5	1.3	2.7													
	4381	2.8	2.8	2.8													
	1786	2.6	2.4	2.6													
	1787	2.4	2.2	2.4													
	0025	2.2	2.4	2.6													
	4375	2.0	2.2	2.4													
	1782	2.6	2.8	2.6													
Fecal Coliform	1175	76	81	350											---	500	---
	3083	81	76	920													
	4381	<3	3	3													
	1786	<3	3	3													
	1787	<3	3	3													
	0025	<3	3	3													
	4375	<3	3	3													
	1782	<3	3	3													

TDS	1175	372	428	445										500 - 2000
	3083	386	418	389										
	4381	446	480	470										
	1786	416	450	540										
	1787	430	430	460										
	0025	374	380	418										
	4375	368	350	384										
	1782	25100	19000	23300										
<p>Note: All values are expressed in mg/L except pH, Total Coliform value& Fecal coliform. Total Coliform& Fecal Coliform is expressed in MPN count / 100 ml.</p> <p>Remarks: BOD & 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>														

3. 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, 2021 is as follows:

S. No.	Code	Location point
01	1785	Manthralayam, Kurnool Dist.
02	1174	Bhavapuram, Kurnool Dist.
03	4388	U/S of Kurnool town B/C with domestic sewage& A/c of Rayalaseema alkalies industries at Gondiparla, Kurnool.
04	4389	D/S of Kurnool town A/C with domestic sewage at Gondiparla, Kurnool.

Month-wise data of water quality of river Tungabhadra, 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1785	7.8	7.8	7.8										6.0 – 8.5	6.0 – 9.0	
	1174	7.6	7.3	7.7												
	4388	6.8	7.4	7.2												
	4389	7.1	7.1	6.9												
DO	1785	5.3	5.7	4.8										6.0	5.0	4.0
	1174	5.5	5.5	5.0												
	4388	5.3	4.5	4.3												
	4389	5.2	4.9	4.2												
BOD	1785	2.8	2.8	3.0										2.0	3.0	3.0
	1174	2.3	2.8	2.8												
	4388	2.3	2.7	3.0												
	4389	2.8	3.0	3.0												
Fecal Coliform	1785	210	130	170										---	500	---
	1174	170	180	220												
	4388	180	180	350												
	4389	140	210	430												
TDS	1785	636	812	724										500 - 2000		
	1174	738	898	1014												
	4388	1042	1120	1196												
	4389	779	921	893												
<p>Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal coliform. Total Coliform & Fecal Coliform is expressed in MPN count / 100 ml.</p> <p>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 like D/S of Kurnool town. Hence, this location may be categorized as Class – C at these points.</p>																

4. River Nagavali:

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, 2021 is as follows:

S. No.	Code	Location point
01	4351	River Nagavali at Kuneru, 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.

Month-wise data of water quality of river Nagavali, 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Class A				Class B	Class C
														7.86	7.30	7.24	4351		
DO	4347	6.4	7.2	7.0										6.0	5.0	4.0			
	4346	8.4	7.5	7.5										6.0	5.0	4.0			
	1448	5.9	6.5	8.1										6.0	5.0	4.0			
	4351	6.0	6.7	6.7										6.0	5.0	4.0			
pH	4347	8.10	7.69	7.32										6.0-8.5	6.0-9.0	6.0-9.0			
	4346	8.28	7.62	7.39										6.0-8.5	6.0-9.0	6.0-9.0			
	1448	7.52	7.45	6.98										6.0-8.5	6.0-9.0	6.0-9.0			
	4351	7.86	7.30	7.24										6.0-8.5	6.0-9.0	6.0-9.0			

*Standard

BOD	4351	1.3	1.7	1.4										2.0	3.0	3.0
	1448	1.9	1.9	1.4												
	4346	1.4	2.0	1.6												
	4347	1.9	2.2	1.8												
Fecal Coliform	4351	21	15	11										---	500	---
	1448	9	11	9												
	4346	7	9	7												
	4347	11	11	15												
TDS	4351	236	240	224										500 - 2000		
	1448	192	240	192												
	4346	252	224	240												
	4347	280	260	264												
<p>Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal coliform. Total Coliform & Fecal coliform is expressed in MPN count / 100 ml.</p>																
<p>Remarks: BOD & Fecal coliform values found to within the standard limits stipulated for bathing at all the locations.</p>																

5. 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, 2021 is as follows:

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

Month-wise data of water quality of river Kundu, 2021

Parameters	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	*Standard		
													Class A	Class B	Class C
pH	7.5	7.6	7.3										6.0 – 8.5		6.0 – 9.0
DO	5.1	4.8	5.1										6.0	5.0	4.0
BOD	2.5	2.5	2.8										2.0	3.0	3.0
Fecal Coliform	350	280	240										---	500	---
TDS	446	486	512										500 - 2000		
Note: All values are expressed in mg/L except pH, Total Coliform & Fecal Coliform value. Total 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.															

CPCB Water Quality Criteria for Designated Best Use

Designated-best- use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection.	A	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 50 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 6 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 2mg/l or less.
Outdoor bathing (Organized)	B	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 500 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 5 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less.
Drinking Water Source after conventional treatment and disinfection.	C	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 5000 or less. • pH between 6 to 9 • Dissolved oxygen 4 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Propagation of Wild life and Fisheries.	D	<ul style="list-style-type: none"> • pH between 6.5 to 8.5 • Dissolved oxygen 4 mg/l or more. • Free Ammonia (as N) 1.2 mg/l or less • pH 9 between 6.0 to 8.5.
Irrigation, Industrial Cooling, Controlled Waste disposal.	E	<ul style="list-style-type: none"> • Electrical Conductivity at 25°C micro mhos/cm Max. 2250. • Sodium Absorption ratio Max. 26 • Boron Max.2 mg/l.
	Below -E	Not Meeting A, B, C, D & E Criteria.

GOVERNMENT OF ANDHRA PRADESH
MUNICIPAL ADMINISTRATION & URBAN DEVELOPMENT (UBS) DEPARTMENT

Letter No. 1282446/UBS/2020

Dated: 24-03-2021

From
The Special Chief Secretary to Government,
MA & UD Department,
A.P. Secretariat,
Velagapudi,
Guntur District

To
The Secretary,
Ministry of Jal Sakti,
MoHUA.,
Government of India,
New Delhi.(w.e.)

Sir,

Sub:- MA & UD Department - National Green Tribunal – Orders of the National Green Tribunal Principal Bench, New Delhi in OA No.673/2018 - Monthly Progress Report for the month of February, 2021 - Furnished – Regarding.

Ref:- Orders of the National Green Tribunal Principal Bench, New Delhi in OA No.673/2018, dt.24.09.2020.

*** **

In compliance to the directions of the Hon'ble National Green Tribunal Principal Bench, New Delhi in the reference cited, I am herewith enclose the Monthly Progress Report in the prescribed format for the month of February, 2021 for taking further necessary action.

Yours faithfully,

G. Sudha Rayo

For SPECIAL CHIERF SECRETARY TO GOVERNMENT



National Mission for Clean Ganga
Format for submission of Monthly Progress Report for
the month of FEBRUARY, 2021 in the NGT Matter OA No. 673
of 2018 (in compliance to NGT order dated 24.09.2020)

For the State of Andhra Pradesh

Overall status of the State:

- I. Total Urban Population : 1.48 Crore
- II. Estimated Sewage Generation (MLD) : 1503.20 MLD (120 ULB's)

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD) : 515.85 MLD (43No's)
- Present Gap in Treatment Capacity in MLD : 987.35 MLD
- Capacity of under construction STP's : 480.07 MLD
- STPs under tender : 51.40 MLD
- No. of Operational STPs : 43 Nos
- No. of Non-complying STPs : Nil

III (A) Details of each existing STP in the State

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Operational Status of STP	Compliance Status of STP
1	GVMC	Old town	May'2019	38.00	Operational	Comply
2		Appughar	26.09.2010	25.00	Operational	Comply
3		Mudasarlova	April'2008	13.00	Operational	Comply
4		Narava	Aug-01	54.00	Operational	Comply
5		Anakapalle	April'2018	15.00	Operational	Comply
6		Madinabagh	Dec'2015	2.00	Operational	Comply
7		Yathapalem Colonies	April'2008	2.50	Operational	Comply
8		Gajuwaka	April'2008	0.50	Operational	Comply
9		Karnavani palem	Dec' 2019	5.00	Operational	Comply
10		Mantripalem	April' 2008	1.00	Operational	Comply
11		Aganampudi	Dec' 2015	6.00	Operational	Comply
12		Rathi Cheruvu	Sep' 2019	2.00	Operational	Comply
13		Kommadi / Madhurawada	Aug' 2018	4.00	Operational	Comply
14		Bakkannapalem	Aug' 2011	1.00	Operational	Comply
15		Marikavalasa	Dec' 2012	2.00	Operational	Comply
16		Vambay Colony	Aug' 2011	3.00	Operational	Comply
17		YSR Nagar	Aug' 2011	2.00	Operational	Comply
18		Boyapalem	Aug' 2011	1.00	Operational	Comply
		Sub Total		177.00		

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Operational Status of STP	Compliance Status of STP
19	Rajamahe-ndravaram	Hukumpeta	03.01.2009	30.00	Operational	Comply
20	Vijayawada	Ajith Singh Nagar-1	31.05.2011	40.00	Operational	Comply
21		Ajith Singh Nagar-2	31.05.2012	20.00	Operational	Comply
22		Ramalingeswar Nagar-1	30.06.2012	20.00	Operational	Comply
23		Ramalingeswar Nagar-2	20.10.2006	10.00	Operational	Comply
24		Autonagar Nagar-1	31.03.2005	10.00	Operational	Comply
25		Autonagar Nagar-2	31.12.2018	10.00	Operational	Comply
26		Jakkampudi	31.07.2017	20.00	Operational	Comply
			Sub Total	130.00		
27	Tirupathi	Thukivakam	30.09.2018	50.00	Operational	Comply
28	Kadapa	Nanapally	02.08.2012	20.00	Partly Operational	Comply
29	Pulivendula	Rotarypuram	25.01.2009	6.50	Partly Operational	Comply
30	Tadipatri	Gannevaripalle	10.10.2010	3.50	Operational	Comply
31		Gannevaripalle	10.10.2010	8.00	Operational	Comply
			Sub Total	11.50		
32	Puttaparthi	1.Sai Nagar	20.7.2001	0.50	Operational	Comply
33		2. Gokulam	20.7.2001	0.50	Under Rehabilitation	Comply
34		3. Prasanthi Gram	20.7.2001	0.50	Under Rehabilitation	Comply
			Sub Total	1.50		
35	Narsaraopeta	CPT Road	02.02.2018	15.55	Operational	Comply
36	Nellore	Janardhan Reddy Colony		5.00	Trail Run	Comply
37		Allepuram		55.00		
38		Drivers Colony		11.00		
			Sub Total	71.00		
39	Kurnool	Jammichettu	12.03.2019	0.80	Operational	Comply
40		Sankal Bagh	12.03.2019	0.80	Operational	Comply
41		Tungabhadra PumpHouse	10.03.2018	0.80	Operational	Comply
			Sub Total	2.40		
42	Tadepalli	Mahanadu-1	10.12.2018	0.20	Operational	Comply
43		Mahanadu-2	15.12.2018	0.20	Operational	Comply
			Grand Total	515.85		

III (B) Details of under construction STPs in the State

S. No.	Location	Scheme Name	No. of STP	Capacity of the plant in MLD	Physical Progress in %	Completion Timeline
1	Yemmiganur	UIDSSMT	1	19.80	96%	March 2021
2	Srikakulam	AMRUT	1	10.00	45%	December 2021
3	Vizianagaram	AMRUT	1	5.00	55%	December 2021
4	GVMC	Smart City (Package-I)	1	54.00	52%	December 2021
5	Kakinada	AMRUT	1	5.00	37%	December 2021
6	Rajamahendravaram	AMRUT	1	5.00	5%	December 2021
7	Bhimavaram	AMRUT	1	5.00	42%	December 2021
8	Tadepalligudem	AMRUT	1	5.00	0%	December 2021
9	Eluru	AMRUT	1	5.00	35%	December 2021
10	Machilipatnam	AMRUT	1	5.00	45%	December 2021
11	Gudivada	AMRUT	1	5.00	32%	December 2021
12	Vijayawada	JNNURM	1	20.00	83%	December 2021
13	Tenali	AMRUT	1	10.00	35%	December 2021
		14 FC	1	2.00	30%	December 2021
14	Ongole	AMRUT	1	15.00	59%	December 2021
15	Chilakaluripeta	AMRUT	1	5.00	21%	December 2021
16	Kavali	AMRUT	1	15.00	77%	December 2021
17	Nellore	HUDCO	2	34.00	81%	December 2021
18	Tirupati	Smart City	1	25.00	25%	December 2021
19	Srikalahasti	AMRUT	1	7.00	8%	December 2021
20	Madanapalle	AMRUT	1	5.00	20%	December 2021
21	Kadapa	AMRUT	1	20.00	0%	December 2021
22	Anantapuramu	AMRUT	1	10.00	0%	December 2021
23	Dharmavaram	AMRUT	1	15.00	0%	December 2021
24	Guntakal	AMRUT	1	8.00	0%	December 2021
25	Kurnool	AMRUT	1	2.00	30%	December 2021
		AMRUT	1	10.00	5%	December 2021
26	Nandyal	AMRUT	1	10.00	10%	December 2021
27	Adoni	AMRUT	1	5.00	15%	December 2021
28	Guntur	OTSFA	4	123.00	51%	Jun 2022
29	Pulivendula	PLAN	1	10.00	0%	December 2022 (Agreement entered)
			1	1.50		
			7 (0.5MLD x 7nos)	3.50		
			1	0.02		
			1	0.07		
			1	0.08		
			1	0.10		
Grand Total			46	480.07		

III (C) Details of Proposed STPs in the State

Phase	Description	No. of ULBs	Proposed Total STP capacities (MLD)	Cost of Total STPs (crores)
I	Municipal Corporations	16	539.00	1617.00
II	ULBs having population above 1 Lakhs	18	221.00	663.00
III	ULBs having Population ranging between 75,000 to 1 Lakh	8	43.00	114.00
IV	ULBs having Population less than 75,000	78	499	1058.00
V	Taxes and others etc @20%			781.20
	Total		1302.00	4687.20

III D) Details of STPs Under Tendering:

S. No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1	Kanigiri	6.00	Technical bids are opened & bids are under scrutiny.	Two years after date of award of the work
2	Sullurpet	8.00		
3	Allagadda	5.00		
4	Nandikotkur	5.00		
5	Madakasira	5.00		
6	Rayachoti	22.40	2 nd call No Bidders. 3 rd call Tenders are process.	
	Total	51.40		

III E) STATUS OF STPs UNDER RIVER STRETCHES:

- Total Estimated Sewage Generation (in MLD) 2020 : 302.00 MLD
- Existing no. of STP with Treatment Capacity (in MLD) : 162.40 MLD
- Present Gap in Treatment Capacity (in MLD) : 139.60 MLD
- Capacity of under Construction STPs (in MLD) : 57.00 MLD

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-IV RIVERS						

1.	Tungabhadra	Kurnool	2.40 MLD	10 MLD	5 %	<p>DPR prepared for Rs.304.00 Crores proposed additional STPs of 78 MLD to satisfy the demand for the year 2035 and submitted to the Govt. of Andhra Pradesh for according administrative sanction.</p> <p>1. At Tungabhadra Pump house-5.00 MLD 2. At Roja Dargha -3.00 MLD 3. At Roja Dargha – I -2.00 MLD 4. At Sri Chaitanya School – II- 5.00 MLD 5. At Saibaba Temple -3.00 MLD 6. At Nagasai Temple -2.00 MLD 7. At Nagasai Temple – I -3.00 MLD 8. At Law College -2.00 MLD 9. At Raghavendra Matam - 5.00 MLD 10. At Nagula Katta - 8.00 MLD 11. At Jammi Chettu - 40.00MLD</p> <p style="text-align: right;">Total - 78.00 MLD</p>
				2 MLD	30%	
2	Kundu	Nandyal	0.00	10 MLD	10%	<p>Comprehensive DPR on UGD scheme is prepared for Rs.85.00 Cr with STPs capacity of 26 (21 + 5) MLD to cater the needs of 2035 year. DPR submitted to the Govt. for according Administrative Sanction.</p>

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-V RIVERS						
1.	Nagavali	Srikakulam	0.00	10 MLD	45%	Comprehensive proposal for providing UGD scheme to meet the 2035 demand is prepared for an amount of Rs.190.36 Cr with an additional STP capacity of 12 MLD.
2.	Godavari	Rajamahendravaram	30.00	5 MLD	5%	DPR on Comprehensive UGD scheme prepared with additional STP's of capacity 72.37 MLD for an amount of Rs.404.00 Cr. RMC has attended the remarks and resubmitted the proposals. Now it is proposed to take up the works with an estimated cost of Rs.107.00 crores in the first year.
3.	Krishna	Vijayawada	130.00	20 MLD	83%	DPR is prepared for Rs.246.38 Cr for providing Comprehensive UGD scheme to meet the 2035 demand including up-gradation of 2 STPs of 30.00 MLD capacity.

IV. Details of Industrial Pollution:

- No. of industries in the State: 9941No's
- No. of water polluting industries in the State: 1123 No's
- Quantity of effluent generated from the industries in MLD: 4494.76 MLD

Effluent Break-Up Details:

- Once through Cooling water: 3826.13 MLD
- Trade effluents: 364.97 MLD
- cooling tower/Boiler blow down: 254.12 MLD
- Domestic waste water: 49.54 MLD

From the total waste water generation from the industries, major portion is once through cooling water (about 85%) and temperature to be maintained for discharge of once through cooling system is not more than 5⁰C temperature of intake water.

- ✓ From the Cooling tower/Boiler blow down (about 5.6%).
- ✓ The remaining about 9.4% is generated from Trade effluent & Domestic Discharges.
- ✓ APPCB is not permitting to discharge industrial / trade effluents into the rivers.
- Number of industrial units having ETPs: 793 No's
- Number of industrial units connected to CETP: 330 No's
 - i. Existing: 793 no's ETPs
 - ii. Under construction: Nil
 - iii. Proposed; Nil
- **Compliance status of the ETPs:**
 - ✓ APPCB is regularly monitoring the compliance status of ETPs and action is being initiated for non-compliance industries.
- Number and total capacity of CETPs (details of existing/ under construction / proposed)
 - i. Existing: 7 No's with total capacity of 31 MLD
 - ii. Under construction: 1 No
 - 1 MLD at Menakur, Nellore District
 - iii. Proposed: 3 no's
 - 1.5 MLD at Atchuthapuram SEZ, Visakhapatnam
 - 1.5 MLD at Nakkapalli, Visakhapatnam.
 - 1.2 MLD at Chittoor District

• **Status of compliance and operation of the CETPs**

S. No.	Name and Address of the CETP & contact person	Design capacity	Current Operating capacity	Type and No. of member units	Compliance status
1.	Brandix India Apparel City Private Limited, APSEZ, Atchutapuram Pudimadaka Road, Visakhapatnam.	20 MLD	*4 MLD	Textile park- 14 units	Complied *In Brandix India Apparel City, textile industries were not established as anticipated. Hence effluent generation is less.
2.	RamkyPharma City (India) Ltd, JN PharmaCity, Parawada Mandal, Visakhapatnam.	5.0 MLD	4.8 MLD	Pharmaceutical & Bulk drugs- 92 units	Complied
3.	KondapallyEnvirotech Pvt. Ltd., (KEPL), IDA, Kondapalli (V), Ibrahimpatnam (M), Krishna District.	0.2 MLD	0.15 MLD	Pharmaceutical & Bulk drugs- 13 units	Complied
4.	Vijayawada Auto Cluster Development Company, Industrial Estate, Auto Nagar, Vijayawada.	0.2 MLD	0.2 MLD	Food beverages, Herbal pharma, Oil solvents & lubricants - 38 units.	Complied
5.	Machilipatnam Imitation Jewellery Park Pvt. Ltd., Jewellery Park, Potheipalli, Machilipatnam.	0.07 MLD	0.002 MLD	Electro Plating - 48 Units	Complied
6.	Nagari Dyeing Owners Association, Chinthalapatteda (V), Nagari (M), Chittoor District.	4 MLD	0.8 MLD	Manual Dyeing units - 105 units	Complied
7.	Atchuthapuram Effluent Treatment Plant, Atchutapuram Visakhapatnam.	1.5 MLD	1.5 MLD	Pharmaceutical & Bulk drugs- 20 units	Complied

V. Solid Waste Management:

- Total number of Urban Local Bodies: **120** and their Population: **1.48** Crore
- Current Municipal Solid Waste Generation: **6850** TPD. for 120 ULBs (10 Newly Constituted ULBs – These ULBs have not yet developed urban Dynamics).
- 2 Waste to Energy Projects covering 13 ULBs are in progress with an installed capacity of 1500 TPD (30 MW),
- 30 Wet Waste Projects covering 33 ULBs treating 1400 TPD with an installed capacity of 1600 TPD are existing.
- 23 Wet Waste Projects covering 24 ULBs are in progress with an installed capacity of 500 TPD.
- 53 Wet Waste Projects (43 compost and 10 Biomethanation) covering 53 ULBs are proposed and RFP process is in progress and Feasibility study for dry waste management in the 53 ULBs is under progress
- Detailed Project Reports are being prepared for Waste Treatment units in the Newly Constituted ULBs.
- 76 Material Recovery facilities covering 76 ULBs treating 810 TPD with an installed capacity of 1000 TPD Existing.
- 44 Material Recovery facilities covering 44 ULBs are in progress with an installed capacity of 500 TPD.
- 3 Construction and Demolition waste processing plants in Greater Visakhapatnam Municipal Corporation, Vijayawada Municipal Corporation and Tirupati Municipal Corporation treating 100 TPD with an installed capacity of 200 TPD are existing.
- The Source Segregation in the State is 81 % and capacity utilization of the treatment units is the same percentage, Ward Secretariats and volunteer system established and unique in the State are ensuring 99 % door to door collection.
- Total no. of wards: 3634. No. of wards having door to door collection service: 3634. No. of wards practicing segregation at source: 2944
- 114 Dumpsites with an area of 1000 acres are existing in the state. Out of which remediation of 4 dumpsites in 4 ULBs (Visakhapatnam, Vijayawada, Tirupati and Tanuku) are under progress.
- No Dumpsites of legacy waste are within 1km buffer of both side of the rivers in the State.

Status of ULB wise Management of Solid Waste:

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
1	Amudalavalasa	19	Existing WtC	10	85%	Vizag WtE		Established	4	85%
2	Ichchapuram	18	Existing WtC	10	85%	Feasibility Study under progress		Established	2	85%
3	Palasa-kasibugga	28	Existing WtC	15	80%	Feasibility Study under progress		In Progress		
4	Rajam	21	Existing WtC	12	80%	Vizag WtE		Established	4	85%
5	Bobbili	29	Existing WtC	16	90%	Vizag WtE		Established	8	85%
6	Salur	24	Existing WtC	13	90%	Vizag WtE		Established	6	90%
7	GVMC	918	Existing WtC	505	85%	Vizag WtE		Established	300	85%
8	Narsipatnam	30	Existing WtC	17	80%	Vizag WtE		Established	8	85%
9	Yellamanchali	23	Existing WtC	13	80%	Vizag WtE		Established	4	85%
10	Adoni	81	Existing WtCNG	45	80%	Connected to Cement Factories	3	Established	20	85%
11	Nuzivid	29	Existing WtC	16	80%	Guntur WtE		In Progress		
12	Thiruvuru	17	Existing WtCNG	9	80%	Guntur WtE		Established	2	85%
13	Tenali	80	Existing WtC	44	90%	Guntur WtE		Established	20	90%
14	Sattenpalle	28	WtCNG - Pidugurala	15	85%	Guntur WtE		Established	6	85%
15	Narsaraopet	57	WtCNG - Pidugurala	31	85%	Guntur WtE		Established	16	85%
16	Piduguralla	31	Existing WtCNG	17	85%	Guntur WtE		In Progress		
17	Allagadda	20	Existing WtC	11	85%	Connected to Cement Factories	1	Established	4	85%
18	Rayadurgam	30	Existing WtC	17	85%	RDF in progress		Established	6	85%
19	Puttaparty	15	Existing WtC	8	85%	RDF in progress		Established	2	85%

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
20	Yemmiganur	46	WtCNG - Adoni	25	85%	RDF in progress		Established	10	85%
21	Anantapur	131	WtCNG Planned	0		Connected to Cement Factories	8	Established	35	90%
22	Atmakur K	22	WtC Awarded	0		Connected to Cement Factories	1	Established	4	90%
23	Badvel	35	WtC Planned	0		Connected to Cement Factories	2	In Progress		
24	Dhone	29	WtC Planned	0		Connected to Cement Factories	2	Established	6	90%
25	Markapur	35	Existing WtC	19	80%	Feasibility Study under progress		Established	8	85%
26	Giddalur	19	Existing WtC	10	85%	RDF in progress		Established	4	85%
27	Kanigiri	22	Existing WtC	12	85%	Feasibility Study under progress		Established	4	85%
28	Chirala	42	Existing WtC	23	90%	Guntur WtE		Established	9	90%
29	Gudivada	58	WtCNG awarded	0		RDF Connected / Guntur WtE	3	Established	14	90%
30	Palamaneru	25	Existing WtC	14	85%	Feasibility Study under progress		In Progress		
31	Punganur	27	Existing WtC	15	80%	Feasibility Study under progress		Established	6	85%
32	Madanpalle	67	Existing WtCNG	37	85%	RDF in progress		In Progress		
33	Sullurpet	22	Existing WtC	12	80%	Feasibility Study under progress		Established	4	85%
34	Srikakulam	65	WtCNG Planned	0		Vizag WtE		Established	16	90%
35	Palakonda	16	WtC Awarded	0		Vizag WtE		In Progress		
36	Vizianagaram	119	WtCNG Planned	0		Vizag WtE		Established	30	90%
37	Parvathipuram	26	WtC Awarded	0		Vizag WtE		In Progress		

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
38	Nellimarla	14	WtC Planned	0		Vizag WtE		Established	2	90%
39	Gudur N	36	WtC Planned	0		Connected to Cement Factories	2	In Progress		
40	Guntakal	62	WtC Planned	0		Connected to Cement Factories	2	Established	14	90%
41	Jaggaiahpet	26	WtCNG awarded	0		RDF Connected / Guntur WtE	1	In Progress		
42	Jammalamadugu	22	Existing WtC	12	80%	Connected to Cement Factories	1	In Progress		
43	Pedana	16	WtC Awarded	0		Guntur WtE		In Progress		
44	Vuyyuru	20	WtC Awarded	0		Guntur WtE		In Progress		
45	Guntur	363	WtCNG Planned	0		Guntur WtE		Established	80	90%
46	Tadepalle	34	WtC Planned	0		Guntur WtE		Established	8	90%
47	Ponnur	29	WtC Planned	0		Guntur WtE		Established	6	90%
48	Chilakaluripet	49	WtC Planned	0		Guntur WtE		Established	12	90%
49	Mangalagiri	36	WtC Planned	0		Guntur WtE		Established	8	90%
50	Bapatla	34	WtCNG awarded	0		Guntur WtE		Established	8	90%
51	Repalle	25	WtC Awarded	0		Guntur WtE		Established	4	90%
52	Vinukonda	30	WtCNG awarded	0		Guntur WtE		In Progress		
53	Macherla	28	WtC Awarded	0		Feasibility Study under progress		Established	6	90%
54	Kadapa	167	WtCNG Planned	0		Connected to Cement Factories	6	Established	40	90%
55	Dharmavaram	62	WtC Planned	0		RDF in progress		In Progress		
56	Kadiri	43	WtC Awarded	0		Connected to Cement Factories	1	Established	8	90%
57	Gooty	24	WtC Planned	0		RDF in progress		Established	4	90%
58	Pamidi	14	WtC Planned	0		RDF in progress		In Progress		

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
59	Hindupur	74	WtC Awarded	0		RDF inprogress		In Progress		
60	Kurnool	224	WtCNG Planned	0		Connected to Cement Factories	2	In Progress		
61	Kalyandurgam	21	WtC Awarded	0		RDF inprogress		Established	2	90%
62	Madakasira	12	WtC Awarded	0		RDF inprogress		Established	2	90%
63	Machilipatnam	89	WtC Awarded	0		RDF Connected / Guntur WtE	3	Established	20	90%
64	Mydukur	22	WtC Planned	0		Connected to Cement Factories	1	In Progress		
65	Nandigama	22	WtCNG awarded	0		RDF Connected / Guntur WtE	1	In Progress		
66	Nandikotkur	23	WtC Planned	0		Connected to Cement Factories	1	Established	4	90%
67	Gudur K	14	WtC Planned	0		RDF inprogress		In Progress		
68	Nandyal	98	WtCNG Planned	0		Connected to Cement Factories	3	In Progress		
69	Proddutur	79	WtCNG Planned	0		Connected to Cement Factories	2	In Progress		
70	Pulivendula	32	Existing WtC	18	85%	Connected to Cement Factories	2	Established	6	85%
71	Rajahmundry	168	WtCNG Planned	0		Connected to Cement Factories	3	Established	40	90%
72	Rajampeta	23	WtC Planned	0		Connected to Cement Factories	1	In Progress		
73	Rayachoti	44	WtC Planned	0		Connected to Cement Factories	2	Established	8	90%
74	Tadipatri	53	Existing WtC	29	90%	Connected to	2	Established	10	90%

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
						Cement Factories				
75	Tirupati	208	Existing WtCNG	114	85%	Connected to Cement Factories	4	Established	45	85%
76	Ongole	123	WtCNG awarded	0		Guntur WtE		Established	30	90%
77	Chimakurthy	17	WtC Awarded	0		Guntur WtE		In Progress		
78	Addanki	20	WtC Awarded	0		Guntur WtE		Established	4	90%
79	Kandukur	28	WtC Awarded	0		Feasibility Study under progress		Established	6	90%
80	Kakinada	159	WtCNG Planned	0		Feasibility Study under progress		Established	35	90%
81	Vijayawada	507	Existing WtC	279	85%	RDF Connected / Guntur WtE	6	Established	150	85%
82	Gollaprolu	11	WtC Planned	0		Feasibility Study under progress		In Progress		
83	Pithapuram	25	WtC Planned	0		Feasibility Study under progress		Established	3	90%
84	Peddapuram	24	WtC Planned	0		Feasibility Study under progress		Established	3	90%
85	Samalkota	28	WtC Planned	0		Feasibility Study under progress		Established	4	90%
86	Yeleswaram	16	WtC Planned	0		Feasibility Study under progress		Established	2	90%
87	Ramachandrapuram	21	WtC Planned	0		Feasibility Study under progress		Established	2	90%
88	Mandapeta	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
89	Tuni	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
90	Mummidivaram	12	WtC Awarded	0		Feasibility Study under progress		Established	2	90%
91	Amalapuram	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%
92	Eluru	106	WtCNG Planned	0		Feasibility Study under progress		Established	22	90%
93	Tadepalligudem	51	WtC Planned	0		Feasibility Study under progress		Established	8	90%
94	Tanuku	44	WtC Planned	0		Feasibility Study under progress		In Progress		
95	Palakollu	33	WtC Planned	0		Feasibility Study under progress		In Progress		
96	Narsapuram	29	WtC Planned	0		Feasibility Study under progress		Established	4	90%
97	Bhimavaram	69	WtC Planned	0		Feasibility Study under progress		Established	12	90%
98	Nidadavole	21	WtC Planned	0		Feasibility Study under progress		In Progress		
99	Kovvur	19	WtC Planned	0		Feasibility Study under progress		In Progress		
100	Jangareddy Gudem	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
101	Chittoor	92	WtCNG Planned	0		Feasibility Study under progress		Established	18	90%
102	SriKalahasti	39	WtC Planned	0		Feasibility Study under progress		Established	8	90%
103	Nagari	30	WtC Planned	0		Feasibility Study		In Progress		

S. No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
						under progress				
104	Puttur	26	WtC Planned	0		Feasibility Study under progress		In Progress		
105	Nellore	300	WtCNG Planned	0		Feasibility Study under progress		In Progress		
106	Venkatagiri	25	WtC Planned	0		Feasibility Study under progress		In Progress		
107	Yerraguntla	17	WtC Planned	0		Connected to Cement Factories	1	In Progress		
108	Naidupet	22	WtC Planned	0		Feasibility Study under progress		Established	4	90%
109	Atmakur N	15	WtC Planned	0		Feasibility Study under progress		In Progress		
110	Kavali	51	WtC Planned	0		Feasibility Study under progress		Established	10	90%
111	Akiveedu	11				DPR under Progress - Newly Constituted ULB				
112	Kondapalli	21				DPR under Progress - Newly Constituted ULB				
113	Dachepali	11				DPR under Progress - Newly Constituted ULB				
114	Gurazala	9				DPR under Progress - Newly Constituted ULB				
115	Darsi	12				DPR under Progress - Newly Constituted ULB				
116	Buchireddy Palem	12				DPR under Progress - Newly Constituted ULB				
117	Penukonda	10				DPR under Progress - Newly Constituted ULB				
118	Bethamcharla	14				DPR under Progress - Newly Constituted ULB				
119	Kamlapuram	7				DPR under Progress - Newly Constituted ULB				
120	Kupam	15				DPR under Progress - Newly Constituted ULB				
Total		6850								

VI. Bio-medical Waste Management:

- Total Bio-medical generation: 15.13 Tonnes/ day
- No. of Hospitals and Health Care Facilities: 10,778 Nos.

Status of Treatment Facility/ CBMWTF	:	Presently, there are 12 Nos. of Common Bio-medical Waste Treatment Facilities (CBMWTFs) in covering total 13 Districts in Andhra Pradesh for treatment and disposal of bio-medical waste
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VII. Hazardous Waste Management:

- Total Hazardous Waste generation about: 5,65,832.60 TPA as per hazardous waste inventory, 2019-20.

Break-up details:

- Utilizable waste is 349572.08 TPA (suitable to use as raw material or as alternative fuel viz. Co-processing in Cement Plants so as to conserve the resources),
 - Recyclable waste is 53608.98 TPA (suitable for recycling /recovery of material viz. oil reclamation units, lead and zinc recovery units),
 - Incinerable waste is 4287.08 TPA (not suitable for any recycling / reuse and having high calorific value i.e. > 2500 K cal/kg) and
 - Land fillable waste is 158364.46 TPA (not suitable for any recycling / reuse and having low calorific value i.e. < 2500 K cal/kg) is reaching and treated at the TSDFs in Visakhapatnam and Nellore.
- No. of Industries generating Hazardous waste: 2648 Nos. as per hazardous waste inventory, 2019-20.

• Details of on-going or proposed TSDF:

Two TSDF are existing in the State of Andhra Pradesh

- ✓ M/s Coastal Waste Management Project Unit-1, Parwada, Visakhapatnam.
- ✓ M/s Coastal Waste Management Project Unit-2 a division of Mumbai Waste Management Limited, S.P.S.R. Nellore District.

VIII. Plastic Waste Management:

Total plastic waste generation	46,222 TPA (As per Annual Report for the F.Y. 2019-20).
Treatment / Measures adopted for reduction or management of plastic waste	<ul style="list-style-type: none"> • The recyclable plastic waste generated is being sent to recycling units and the non-recyclable plastic waste is being sent to cement plants and utilizing for road construction in some ULBs. 18 Nos of recyclers registered with APPCB. Total recycling capacity is 17116 TPA. • 29 ULBs tied up with nearby Cement Plants for co-incineration of non- recyclable plastic waste and 5123 MTs of Non-recyclable plastic waste was sent to cement plants for the F.Y 2019-20. • The MA&UD and PR&RD Dept., informed that they have been conducting strict vigilance and surprise visits on those who store or use or sell or dispose plastic with less than 50 microns' thickness, for which 519 Task force teams were constituted for inspections and raids to control plastic sale and usage of less than 50 microns thickness carry bags / films in the ULBs of A.P. About 239 tons of plastic carry bags were seized and Rs. 169 lakhs towards fine was collected.

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

Details of Faecal Sludge Treatment Plants:

No. of Completed FSTPs	:	2 (30 KLD)
No. of In-progress FSTPs	:	64 (950 KLD)
No. of FSTPs to be retendered	:	11 (175 KLD)
No. of FSTPs DPRs to be prepared	:	10

IX(A): Details of Completed FSTPs:

S.No.	Name of ULB	Capacity(in KLD)	Operational Status of FSTP
1	Narsapur	15	Operational
2	Rajam	15	Operational

IX(B): Details of In-Progress FSTPs:

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
1	Dhone	20	Mar-21
2	Gooty	15	Sep-21
3	Jammalamadugu	15	Sep-21
4	Kadiri	25	Sep-21
5	Kalyanadurgam	10	Sep-21
6	Madakasira	5	Sep-21
7	Paamidi	10	Sep-21
8	Pulivendula	20	Sep-21
9	Puttaparthi	10	Sep-21
10	Rayachoti	25	Sep-21
11	Rayadurg	20	Sep-21
12	Allagadda	10	Sep-21
13	Atmakur (K)	15	Sep-21
14	Badvel	25	Sep-21
15	Gudur (K)	5	Sep-21
16	Mydukuru	15	Sep-21
17	Nandikotkur	15	Sep-21
18	Palamaneru	15	Mar-21
19	Punganur	15	Sep-21
20	Rajampeta	15	Sep-21
21	Yerraguntla	10	Sep-21
22	Atmakur (N)	10	Sep-21
23	Giddalur	10	Sep-21
24	Gudur (N)	20	Sep-21
25	Kandukur	20	Sep-21
26	Kanigiri	15	Sep-21
27	Markapur	20	May-21
28	Nagari	20	Sep-21
29	Naidupet	15	Sep-21
30	Puttur	15	Sep-21
31	Sullurpeta	15	Sep-21
32	Venkatagiri	15	Sep-21
33	Addanki	10	Sep-21
34	Bapatla	25	May-21
35	Chimakurthy	10	Sep-21
36	Chirala	25	May-21
37	Macherla	15	Sep-21
38	Mangalagiri	25	Sep-21
39	Piduguralla	15	Sep-21
40	Ponnur	15	May-21
41	Repalle	15	Sep-21

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
42	Sattenapalli	15	Sep-21
43	Vinukonda	15	Mar-21
44	Amalapuram	15	Sep-21
45	Gollaprolu	5	Sep-21
46	Kovvur	10	Sep-21
47	Mandapeta	15	Sep-21
48	Mummidivaram	10	Sep-21
49	Peddapuram	15	Sep-21
50	Pithapuram	15	Sep-21
51	Ramachandrapuram	15	May-21
52	Samalkota	15	Sep-21
53	Tuni	15	Sep-21
54	Yeleshwaram	10	Sep-21
55	Amudalavalasa	10	Sep-21
56	Bobbili	15	Mar-21
57	Ichapuram	10	Sep-21
58	Narsipatnam	20	Sep-21
59	Nellimarla	10	Sep-21
60	Palakonda	10	Sep-21
61	Palasa-Kasibugga	15	Sep-21
62	Parvathipuram	15	Sep-21
63	Salur	15	Sep-21
64	Yelamanchili	15	Sep-21
Total		950	

IX (C) Details of FSTPs to be Retendered:

S.No	Name of the ULB	Capacity of Plant (KLD)
1	Jangareddigudem	15
2	Nidadavolu	15
3	Palacole	20
4	Pedana	10
5	Tadepalli	20
6	Tanuku	25
7	Vuyyuru	15
8	Jaggaihpeta	15
9	Nandigama	15
10	Nuzividu	15
11	Tiruvuru	10

IX (D) Details of FSTPs DPRs to be Prepared:

S.No	Name of ULB	Status of the project
1	Akiveedu	DPR to be prepared - Newly Constituted ULB
2	Kondapalli	DPR to be prepared - Newly Constituted ULB
3	Dachepali	DPR to be prepared - Newly Constituted ULB
4	Gurazala	DPR to be prepared - Newly Constituted ULB
5	Darsi	DPR to be prepared - Newly Constituted ULB
6	Buchireddy Palem	DPR to be prepared - Newly Constituted ULB
7	Penukonda	DPR to be prepared - Newly Constituted ULB
8	Bethamcharla	DPR to be prepared - Newly Constituted ULB
9	Kamlapuram	DPR to be prepared - Newly Constituted ULB
10	Kupam	DPR to be prepared - Newly Constituted ULB

- X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment:
- A total of 32 No's of outfall points of the major disposal drains have been identified which are contributing to River Pollution. All the above 32 No's of outfall points are provided with Meshes/Screens to prevent solid waste from falling in to the Rivers.
- XI. Details of Nodal Officer appointed by Chief Secretary in the State/UT:
- XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:
- XIII. **Latest water quality of polluted river, its tributaries, drains with flow details:**
- APPCB has been monitoring the 5 polluted river stretches at 27 locations on monthly basis and the data is being uploaded in RRC Website <https://rrc.ap.gov.in/Views/Monitoring.aspx> every month. **The monitoring of water quality data for the month of February 2021 is enclosed.**
 - **As per the analysis of samples collected at 27 locations in the month of February 2021 the B.O.D value is less than 3.0 mg/lit.**
- XIV. Ground water regulation:
- XV. Good irrigation practices being adopted by the State:
- XVI. Rain Water Harvesting:
- XVII. Demarcation of Floodplain and removal of illegal encroachments:
- XVIII. Maintaining minimum e-flow of river:
- XIX. Plantation activities along the rivers:
- XX. Development of biodiversity park:

XXI. Reuse of Treated Water:

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

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

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

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

ENCLOSURES

ANNEXURE Water quality status of polluted river stretches in Andhra Pradesh - 2021

I. 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, 2021 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, 2021

Parameter	Code	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Dec	Standard		
														Class A	Class B	Class C
pH	4367	7.44	7.61											6.0 - 8.5	6.0 - 9.0	
	4359	7.50	6.85													
	0014	7.52	7.52													
	1218	7.36	7.75													
	2370	7.69	7.30													
	2371	7.05	7.19													
	1219	7.25	7.21													
	4365	7.22	7.42													
	4366	7.33	7.71													
	4358	7.57	6.95													
DO	4367	5.6	5.4											6.0	5.0	4.0
	4359	8.5	8.5													
	0014	6.0	7.9													
	1218	7.0	6.2													
	2370	8.4	8.0													
	2371	7.5	6.5													
	1219	7.2	7.8													
	4365	5.8	7.2													
	4366	5.4	7.0													
	4358	5.4	6.5													
BOD	4367	1.8	2.2											2.0	3.0	3.0
	4359	1.5	1.5													

	0014	1.8	2.2														
	1218	2.0	1.0														
	2370	1.4	1.4														
	2371	1.8	2.2														
	1219	2.0	1.6														
	4365	2.0	2.0														
	4366	2.6	2.3														
	4358	2.4	1.6														

Fecal Coliform	4367	15	9														
	4359	4	4														
	0014	9	9														
	1218	7	7														
	2370	9	9														
	2371	15	20														
	1219	23	23														
	4365	15	11														
	4366	23	15														
	4358	7	7														
TDS	4367	420	220														
	4359	120	88														
	0014	160	156														
	1218	156	148														
	2370	220	168														
	2371	252	228														
	1219	208	166														
	4365	10560	18848														
	4366	23256	23572														
	4358	17392	22032														

Note:: All values are expressed in mg/L except pH & Total Coliform value. Total.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 .High TDS values at Narsapuram could be attributed to the intrusion of backwaters of Bay of Bengal.

2. 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, 2021 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, 2021:

Parameters	Code	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1175	7.8	7.9											6.0 - 8.5	6.0 - 9.0	
	3083	7.7	7.4													
	4381	7.88	7.94													
	1786	7.27	7.30													
	1787	7.22	7.68													
	0025	7.76	7.80													
	4375	7.79	7.80													
	1782	7.30	7.80													

DO	3083	7.7	5.6											6.0	5.0	4.0
	4381	7.3	7.1													
	1786	7.3	7.2													
	1787	7.1	7.2													
	0025	7.0	7.2													
	4375	7.0	7.1													
	1782	4.4	4.6													
	1175	1.5	1.7													
	3083	1.5	1.3													
	4381	2.8	2.8													
BOD	1786	2.6	2.4											2.0	3.0	3.0
	1787	2.4	2.2													
	0025	2.2	2.4													
	4375	2.0	2.2													
	1782	2.6	2.8													
Fecal Coliform	1175	76	81											---	500	---
	3083	81	76													
	4381	<3	3													
	1786	<3	3													
	1787	<3	3													
	0025	<3	3													
	4375	<3	3													
	1782	<3	3													

TDS	1175	372	428											500 - 2000
	3083	386	418											
	4381	446	480											
	1786	416	450											
	1787	430	430											
	0025	374	380											
	4375	368	350											
	1782	25100	19000											
<p>Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal coliform. Total Coliform & Fecal Coliform is expressed in MPN count / 100 ml.</p> <p>Remarks: BOD & 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>														

3. 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, 2021 is as follows:

S. No.	Code	Location point
01	1785	Manthralayam, Kurnool Dist.
02	1174	Bhavapuram, Kurnool Dist.
03	4388	U/S of Kurnool town B/C with domestic sewage & A/c of Rayalaseema alkalies industries at Gondiparla, Kurnool.
04	4389	D/S of Kurnool town A/C with domestic sewage at Gondiparla, Kurnool.

Month-wise data of water quality of river Tungabhadra, 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1785	7.8	7.8											6.0 – 8.5	6.0 – 9.0	
	1174	7.6	7.3													
	4388	6.8	7.4													
	4389	7.1	7.1													
DO	1785	5.3	5.7											6.0	5.0	4.0
	1174	5.5	5.5													
	4388	5.3	4.5													
	4389	5.2	4.9													
BOD	1785	2.8	2.8											2.0	3.0	3.0
	1174	2.3	2.8													
	4388	2.3	2.7													

Month-wise data of water quality of river Nagavali, 2021

Parameters	Code	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	4351	7.86	7.30											6.0 – 8.5	6.0 – 9.0	
	1448	7.52	7.45													
	4346	8.28	7.62													
	4347	8.10	7.69													
DO	4351	6.0	6.7											6.0	5.0	4.0
	1448	5.9	6.5													
	4346	8.4	7.5													
	4347	6.4	7.2													
BOD	4351	1.3	1.7											2.0	3.0	3.0
	1448	1.9	1.9													
	4346	1.4	2.0													
	4347	1.9	2.2													
Fecal Coliform	4351	21	15											---	500	---
	1448	9	11													
	4346	7	9													
	4347	11	11													
TDS	4351	236	240											500 - 2000		
	1448	192	240													
	4346	252	224													
	4347	280	260													

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

Remarks: BOD & Fecal coliform values found to within the standard limits stipulated for bathing at all the locations.

5. 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, 2021 is as follows:

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

Month-wise data of water quality of river Kundu, 2021

Parameters	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	*Standard		
													Class A	Class B	Class C
pH	7.5	7.6											6.0 – 8.5		6.0 – 9.0
DO	5.1	4.8											6.0	5.0	4.0
BOD	2.5	2.5											2.0	3.0	3.0
Fecal Coliform	350	280											---	500	---
TDS	446	486											500 - 2000		
Note: All values are expressed in mg/L except pH, Total Coliform & Fecal Coliform value. Total 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.															

CPCB Water Quality Criteria for Designated Best Use

Designated-best- use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection.	A	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 50 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 6 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 2mg/l or less.
Outdoor bathing (Organized)	B	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 500 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 5 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less.
Drinking Water Source after conventional treatment and disinfection.	C	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 5000 or less. • pH between 6 to 9 • Dissolved oxygen 4 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Propagation of Wild life and Fisheries.	D	<ul style="list-style-type: none"> • pH between 6.5 to 8.5 • Dissolved oxygen 4 mg/l or more. • Free Ammonia (as N) 1.2 mg/l or less • pH 9 between 6.0 to 8.5.
Irrigation, Industrial Cooling, Controlled Waste disposal.	E	<ul style="list-style-type: none"> • Electrical Conductivity at 25°C micro mhos/cm Max. 2250. • Sodium Absorption ratio Max. 26 • Boron Max.2 mg/l.
	Below -E	Not Meeting A, B, C, D & E Criteria.

GOVERNMENT OF ANDHRA PRADESH
MUNICIPAL ADMINISTRATION & URBAN DEVELOPMENT (UBS) DEPARTMENT

Letter No. 1282446/UBS/2020

Dated:19-02-2021

From
The Principal Secretary to Government,
MA & UD Department,
A.P. Secretariat,
Velagapudi,
Guntur District

To
The Secretary,
Ministry of Jal Sakti,
MoHUA.,
Government of India,
New Delhi.(w.e.)

Sir,

Sub:- MA & UD Department - National Green Tribunal – Orders of the National Green Tribunal Principal Bench, New Delhi in OA No.673/2018 - Monthly Progress Report for the month of January, 2021 - Furnished – Regarding.

Ref:- Orders of the National Green Tribunal Principal Bench, New Delhi in OA No.673/2018, dt.24.09.2020.

** * **

In compliance to the directions of the Hon'ble National Green Tribunal Principal Bench, New Delhi in the reference cited, I am herewith enclose the Monthly Progress Report in the prescribed format for the month of January, 2021 for taking further necessary action.

Yours faithfully,

G. Sudha Ray

For PRINCIPAL SECRETARY TO GOVERNMENT

↓

National Mission for Clean Ganga
Format for submission of Monthly Progress Report for
the month of JANUARY, 2021 in the NGT Matter OA No. 673
of 2018 (in compliance to NGT order dated 24.09.2020)

For the State of Andhra Pradesh

Overall status of the State:

I. Total Population: Urban Population: 1.48 Crore

II. Estimated Sewage Generation: 1503.20 MLD

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD) : 515.85 MLD (43No's)
- Present Gap in Treatment Capacity in MLD : 987.35 MLD
- Capacity of under construction STP's : 474.07 MLD
- No. of Operational STPs : 43 Nos
- No. of Complying STPs : 43 Nos
- No. of Non-complying STPs : Nil

III A): Details of Each Existing STP in the State:

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Operational Status of STP	Compliance Status of STP
1	Visakhapatnam GVMC	Old town	May'2019	38.00	Operational	Comply
2		Appughar	26.09.2010	25.00	Operational	Comply
3		Mudasarlova	April'2008	13.00	Operational	Comply
4		Narava	Aug-01	54.00	Operational	Comply
5		Anakapalle	April'2018	15.00	Operational	Comply
6		Madinabagh		2.00	Operational	Comply
7		Yathapalem Colonies	April'2008	2.50	Operational	Comply
8		Gajuwaka	April'2008	0.50	Operational	Comply
9		Karnavani palem	Dec' 2019	5.00	Operational	Comply
10		Mantripalem	April' 2008	1.00	Operational	Comply
11		Aganampudi	Dec' 2015	6.00	Operational	Comply
12		Rathi Cheruvu	Sep' 2019	2.00	Operational	Comply

13		Kommadi / Madhurawada	Aug' 2018	4.00	Operational	Comply
14		Bakkannapalem	Aug' 2011	1.00	Operational	Comply
15		Marikavalasa	Dec' 2012	2.00	Operational	Comply
16		Vambay Colony	Aug' 2011	3.00	Operational	Comply
17		YSR Nagar	Aug' 2011	2.00	Operational	Comply
18		Boyapalem	Aug' 2011	1.00	Operational	Comply
			Sub Total	177.00		
19	Rajamahendravaram	Hukumpeta	03.01.2009	30.00	Operational	Comply
20	Vijayawada	Ajith Singh Nagar-1	31.05.2011	40.00	Operational	Comply
21		Ajith Singh Nagar-2	31.05.2012	20.00	Operational	Comply
22		Ramalingeswar Nagar-1	30.06.2012	20.00	Operational	Comply
23		Ramalingeswar Nagar-2	20.10.2006	10.00	Operational	Comply
24		Autonagar Nagar-1	31.03.2005	10.00	Operational	Comply
25		Autonagar Nagar-2	31.12.2018	10.00	Operational	Comply
26		Jakkampudi	31.07.2017	20.00	Operational	Comply
			Sub Total	130.00		
27	Tirupathi	Thukivakam	30.09.2018	50.00	Operational	Comply
28	Kadapa	Nanapally	02.08.2012	20.00	Partly Operational	Comply
29	Pulivendula	Rotarypuram	25.01.2009	6.50	Partly Operational	Comply
30	Tadipatri	Gannevaripalle	10.10.2010	3.50	Operational	Comply
31		Gannevaripalle	10.10.2010	8.00	Operational	Comply
			Sub Total	11.50		
32	Puttaparthi	1.Sai Nagar	20.7.2001	0.50	Operational	Comply
33		2. Gokulam	20.7.2001	0.50	Under Rehabilitation	Comply
34		3. Prasanthi Gram	20.7.2001	0.50	Under Rehabilitation	Comply
			Sub Total	1.50		
35	Narsaraopeta	CPT Road	02.02.2018	15.55	Operational	Comply

36	Nellore	Janardhan Reddy Colony		5.00	Trail Run	
37		Allepuram		55.00		
38		Drivers Colony		11.00		
			Sub Total	71.00		
39	Kurnool	Jammichettu	12.03.2019	0.80	Operational	Comply
40		Sankal Bagh	12.03.2019	0.80	Operational	Comply
41		Tungabhadra PumpHouse	10.03.2018	0.80	Operational	Comply
			Sub Total	2.40		
42	Tadepalli	Mahanadu-1	10.12.2018	0.20	Operational	Comply
43		Mahanadu-2	15.12.2018	0.20		Comply
			Grand Total	515.85		

III B) Details of under Construction STPs in the State

S.No.	Location	Scheme Name	No. of STP	Capacity of the plant in MLD	Physical Progress in %	Completion Timeline
1	Yemmiganur	UIDSSMT	1	19.80	96%	March 2021
2	Srikakulam	AMRUT	1	10.00	23.43%	December2021
3	Vizianagaram	AMRUT	1	5.00	54%	December2021
4	GVMC	JNNURM	2	2.00	50%	December2021
		Smart City (Package-I)	1	46.00	48%	December2021
5	Kakinada	AMRUT	1	5.00	24%	December2021
6	Rajamahendravaram	AMRUT	1	5.00	5%	December2021
7	Bhimavaram	AMRUT	1	5.00	42%	December2021
8	Tadepalli gudem	AMRUT	1	5.00	0%	December2021
9	Eluru	AMRUT	1	5.00	35%	December2021
10	Machilipatnam	AMRUT	1	5.00	45%	December2021
11	Gudivada	AMRUT	1	5.00	32%	December2021
12	Vijayawada	JnNURM	1	20.00	83%	December2021

13	Tenali	AMRUT	1	10.00	35%	December2021
		14 FC	1	2.00	5%	December2021
14	Ongole	AMRUT	1	15.00	40%	December2021
15	Chilakaluripeta	AMRUT	1	5.00	20%	December2021
16	Kavali	AMRUT	1	15.00	71%	December2021
17	Nellore	HUDCO	2	34.00	81%	December2021
18	Tirupati	Smart City	1	25.00	25%	December2021
19	Srikalahasti	AMRUT	1	7.00	8%	December2021
20	Madanapalle	AMRUT	1	5.00	20%	December2021
21	Kadapa	AMRUT	1	20.00	0%	December2021
22	Anantapuramu	AMRUT	1	10.00	0%	December2021
23	Dharmavaram	AMRUT	1	15.00	0%	December2021
24	Guntakal	AMRUT	1	8.00	0%	December2021
25	Kurnool	AMRUT	1	2.00	25%	December2021
		AMRUT	1	10.00	5%	December2021
26	Nandyal	AMRUT	1	10.00	5%	December2021
27	Adoni	AMRUT	1	5.00	10%	December2021
28	Guntur	OTSFA	4	123.00	50%	Jun2022
29	Pulivendula	PLAN	1	10.00	0%	December2022
			1	1.50		
			7 (0.5MLD x 7nos)	3.50		
			1	0.02		
			1	0.07		
			1	0.08		
			1	0.10		
Grand Total			47	474.07		

III.C) Details of proposed STPs in the State

S.No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1	Kanigiri	6.00	Technical bids are opened	Two years after
2	Sullurpet	9.00		

			& bids are under scrutiny.	date of award of the work
3	Allagadda	5.00		
4	Nandikotkur	5.00		
5	Madakasira	5.00		
6	Rayachoti	22.40		
	Total	52.40		

III D) Details of STPs Under Tendering:

Phase	Description	No. of ULBs	Proposed Total STP capacities (MLD)	Cost of Total STPs (crores)
I	Municipal Corporations	16	407.93	571.20
II	ULBs having population above 1 Lakhs	17	218.73	305.20
III	ULBs having Population ranging between 75,000 to 1 Lakh	7	57.68	114.00
IV	ULBs having Population less than 75,000	78	530.93	1058.00
	Total		1215.27	2048.40

III E) STATUS OF STPs UNDER RIVER STRETCHES:

- Total Estimated Sewage Generation (in MLD) 2020 : 302.00 MLD
- Existing no. of STP with Treatment Capacity (in MLD) : 162.40 MLD
- Present Gap in Treatment Capacity (in MLD) : 139.60 MLD
- Capacity of under Construction STPs (in MLD) : 57.00 MLD

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-IV RIVERS						

1.	Tungabhadra	Kurnool	2.40MLD	10 MLD	5%	<p>DPR prepared for Rs.304.00 Crores proposed additional STPs of 78 MLD to satisfy the demand for the year 2035 and submitted to the Govt. of Andhra Pradesh for according administrative sanction.</p> <p>1. At Tungabhadra pump house- 5.00 MLD</p> <p>2. At Roja Dargha - 3.00 MLD</p> <p>3. At Roja Dargha – I -2.00 MLD</p> <p>4. At Sri Chaitanya School – II- 5.00 MLD</p> <p>5. At Saibaba Temple -3.00 MLD</p> <p>6. At Nagasai Temple -2.00 MLD</p> <p>7. At Nagasai Temple – I -3.00 MLD</p> <p>8. At Law College -2.00 MLD</p> <p>9. At Raghavendra Matam - 5.00 MLD</p> <p>10. At Nagula Katta - 8.00 MLD</p> <p>11. At Jammi Chettu - 40.00MLD</p> <p style="text-align: right;">Total - 78.00MLD</p>
				2 MLD	20%	
2	Kundu	Nandyal	0.00	10 MLD	5%	<p>Comprehensive DPR on UGD scheme is prepared for Rs.85.00 Cr with STPs capacity of 26 (21 + 5) MLD to cater the needs of 2035 year. DPR submitted to the Govt. for according Administrative Sanction.</p>

S. No	Name of River Stretch	Name of the ULB	Existing STP Capacity (in MLD)	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
PRIORITY-V RIVERS						
1.	Nagavali	Srikakulam	0.00	10 MLD	45%	<p>Comprehensive proposal for providing UGD scheme for 2035 needs is prepared for an amount of Rs.190.36 Cr with an additional STP capacity of 12 MLD.</p>

2.	Godavari	Rajamahendravaram	30.00	5 MLD	5%	DPR on Comprehensive UGD scheme prepared with additional STP's of capacity 72.37 MLD for an amount of Rs.404.00 Cr. RMC has attended the remarks and resubmitted the proposals. Now it is proposed to take up the works with an estimated cost of Rs.107.00 crores in the first year.
3.	Krishna	Vijayawada	130.00	20 MLD	83%	DPR is prepared for Rs.246.38 Cr to for providing Comprehensive UGD scheme to meet the 2035 demand including up-gradation of 2 STPs of 30.00 MLD capacity.

IV. Details of Industrial Pollution:

- No. of industries in the State:9941No's
- No. of water polluting industries in the State: 1069 No's
- Quantity of effluent generated from the industries in MLD:4494.33 MLD (**the breakup of effluent is through *Once through Cooling water: 3826.13 MLD + Process waste water: 364.97 MLD + cooling tower/Boiler blow down: 254.118 MLD + Domestic discharge: 49.54 MLD***)
 - ✓ **From the total industrial generation, major portion is once through cooling water (85%)and the discharge temperatures are maintained not more than 5⁰C temperature of water temperature.**
 - ✓ From the Cooling tower/Boiler blow down (5.6%).
 - ✓ The remaining 9.4% is generated from Process waste water & Domestic Discharges.
- Quantity of Hazardous Sludge generated from the Industries: 51,770 TPM (Average)
- Number of industrial units having ETPs: 1069 No's
- Number of industrial units connected to CETP: 330 No's
- Number and total capacity of ETPs (details of existing/ under construction / proposed)
 - i. Existing: 1069 no's ETPs

- Compliance status of the ETPs: APPCB is regularly monitoring the compliance status of ETPs
- Number and total capacity of CETPs (details of existing/ under construction / proposed)
 - Existing: 7No's with total capacity of 31 MLD
 - Under construction: Nil
 - Proposed: Nil
- **Status of compliance and operation of the CETPs**

S.No.	Name and Address of the CETP & contact person	Design capacity	Current Operating capacity	Type and No. of member units	Compliance status
1.	Brandix India Apparel City Private Limited, APSEZ, Atchutapuram Pudimadaka Road, Visakhapatnam.	20 MLD	*4 MLD	Textile park- 14 units	Complied *In Brandix India Apparel City, textile industries were not established as anticipated. Hence effluent generation is less.
2.	RamkyPharma City (India) Ltd, JN PharmaCity, Parawada Mandal, Visakhapatnam.	5.0 MLD	4.8 MLD	Pharmaceutical & Bulk drugs-92 units	Complied
3.	KondapallyEnvirotech Pvt. Ltd., (KEPL), IDA, Kondapalli(V), Ibrahimpatnam (M), Krishna District.	0.2 MLD	0.15 MLD	Pharmaceutical & Bulk drugs-13 units	Complied
4.	Vijayawada Auto Cluster Development Company, Industrial Estate, Auto Nagar, Vijayawada.	0.2 MLD	0.2 MLD	Food beverages, Herbal pharma, Oil solvents & lubricants - 38 units	Complied
5.	Machilipatnam Imitation Jewellery Park Pvt. Ltd., Jewellery Park, Pothehalli, Machilipatnam.	0.07 MLD	0.002 MLD	Electro Plating - 48 Units	Complied
6.	Nagari Dyeing Owners Association, Chinthalapatteda (V),	4 MLD	0.8 MLD	Manual Dyeing units - 105 units	Complied

	Nagari (M), Chittoor District.				
7.	Atchuthapuram Effluent Treatment Plant, Atchutapuram Visakhapatnam.	1.5 MLD	1.5 MLD	Pharmaceutical & Bulk drugs-20 units	Complied

V. Solid Waste Management:

- Total number of Urban Local Bodies: **120** and their Population: **1.48** Crore
- Current Municipal Solid Waste Generation: **6850** TPD. for 120 ULBs
- (10 Newly Constituted ULBs – These ULBs have not yet developed urban Dynamics)
- 2 Waste to Energy Projects covering 13 ULBs are in progress with an installed capacity of 1500 TPD (30 MW),
- 30 wet waste projects covering 33 ULBs treating 1400 TPD with an installed capacity of 1600 TPD are existing.
- 23 wet waste projects covering 24 ULBs are in progress with an installed capacity of 500 TPD.
- 53 Wet waste projects (43 compost and 10 Biomethanation) covering 53 ULBs are proposed and RFP process is in progress and Feasibility study for dry waste management in the 53 ULBs is under progress
- Detailed Project Reports are being prepared for Waste Treatment units in the Newly Constituted ULBs.
- 76 Material Recovery facilities covering 76 ULBs treating 810 TPD with an installed capacity of 1000 TPD Existing.
- 44 Material Recovery facilities covering 44 ULBs are in progress with an installed capacity of 500 TPD.
- 3 Construction and Demolition waste processing plants in Greater Visakhapatnam Municipal Corporation, Vijayawada Municipal Corporation and Tirupati Municipal Corporation treating 100 TPD with an installed capacity of 200 TPD are existing.
- The Source Segregation in the State is 81 % and capacity utilization of the treatment units is the same percentage, Ward Secretariats and volunteer system established and unique in the State are ensuring 99 % door to door collection.
- Total no. of wards: 3634. No. of wards having door to door collection service: 3634. No. of wards practicing segregation at source: 2944
- 114 Dumpsites with an area of 1000 acres are existing in the state. Out of which remediation of 4 dumpsites in 4 ULBs (Visakhapatnam, Vijayawada, Tirupati and Tanuku) are under progress
- No Dumpsites of legacy waste are within 1km buffer of both side of the rivers in the State.

Status of ULB wise Management of Solid Waste

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity (TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
1	Amudalavalasa	19	Existing WtC	10	85%	Vizag WtE		Established	4	85%
2	Ichchapuram	18	Existing WtC	10	85%	Feasibility Study under progress		Established	2	85%
3	Palasakasibugga	28	Existing WtC	15	80%	Feasibility Study under progress		In Progress		
4	Rajam	21	Existing WtC	12	80%	Vizag WtE		Established	4	85%
5	Bobbili	29	Existing WtC	16	90%	Vizag WtE		Established	8	85%
6	Salur	24	Existing WtC	13	90%	Vizag WtE		Established	6	90%
7	GVMC	918	Existing WtC	505	85%	Vizag WtE		Established	300	85%
8	Narsipatnam	30	Existing WtC	17	80%	Vizag WtE		Established	8	85%
9	Yellamanchali	23	Existing WtC	13	80%	Vizag WtE		Established	4	85%
10	Adoni	81	Existing WtCNG	45	80%	Connected to Cement Factories	3	Established	20	85%
11	Nuzivid	29	Existing WtC	16	80%	Guntur WtE		In Progress		
12	Thiruvuru	17	Existing WtCNG	9	80%	Guntur WtE		Established	2	85%
13	Tenali	80	Existing WtC	44	90%	Guntur WtE		Established	20	90%
14	Sattenpalle	28	WtCNG - Pidugurala	15	85%	Guntur WtE		Established	6	85%
15	Narsaraopet	57	WtCNG - Pidugurala	31	85%	Guntur WtE		Established	16	85%
16	Piduguralla	31	Existing WtCNG	17	85%	Guntur WtE		In Progress		
17	Allagadda	20	Existing WtC	11	85%	Connected to Cement Factories	1	Established	4	85%
18	Rayadurga	30	Existing	17	85%	RDF		Established	6	85%

	m		WtC			inprogre ss		hed		
19	Puttaparty	15	Existing WtC	8	85%	RDF inprogre ss		Establis hed	2	85%
20	Yemmiganu r	46	WtCNG - Adoni	25	85%	RDF inprogre ss		Establis hed	10	85%
21	Anantapur	131	WtCNG Planned	0		Connect ed to Cement Factories	8	Establis hed	35	90%
22	Atmakur K	22	WtC Awarded	0		Connect ed to Cement Factories	1	Establis hed	4	90%
23	Badvel	35	WtC Planned	0		Connect ed to Cement Factories	2	In Progress		
24	Dhone	29	WtC Planned	0		Connect ed to Cement Factories	2	Establis hed	6	90%
25	Markapur	35	Existing WtC	19	80%	Feasibili ty Study under progress		Establis hed	8	85%
26	Giddalur	19	Existing WtC	10	85%	RDF inprogre ss		Establis hed	4	85%
27	Kanigiri	22	Existing WtC	12	85%	Feasibili ty Study under progress		Establis hed	4	85%
28	Chirala	42	Existing WtC	23	90%	Guntur WtE		Establis hed	9	90%
29	Gudivada	58	WtCNG awarded	0		RDF Connect ed / Guntur WtE	3	Establis hed	14	90%
30	Palamaneru	25	Existing WtC	14	85%	Feasibili ty Study under progress		In Progress		
31	Punganur	27	Existing WtC	15	80%	Feasibili ty Study under progress		Establis hed	6	85%
32	Madanpalle	67	Existing WtCNG	37	85%	RDF inprogre ss		In Progress		
33	Sullurpet	22	Existing	12	80%	Feasibili		Establis	4	85%

			WtC			ty Study under progress		hed		
34	Srikakulam	65	WtCNG Planned	0		Vizag WtE		Established	16	90%
35	Palakonda	16	WtC Awarded	0		Vizag WtE		In Progress		
36	Vizianagara m	119	WtCNG Planned	0		Vizag WtE		Established	30	90%
37	Parvathipur am	26	WtC Awarded	0		Vizag WtE		In Progress		
38	Nellimarla	14	WtC Planned	0		Vizag WtE		Established	2	90%
39	Gudur N	36	WtC Planned	0		Connect ed to Cement Factories	2	In Progress		
40	Guntakal	62	WtC Planned	0		Connect ed to Cement Factories	2	Established	14	90%
41	Jaggaiahpet	26	WtCNG awarded	0		RDF Connect ed / Guntur WtE	1	In Progress		
42	Jammalama dugu	22	Existing WtC	12	80%	Connect ed to Cement Factories	1	In Progress		
43	Pedana	16	WtC Awarded	0		Guntur WtE		In Progress		
44	Vuyyuru	20	WtC Awarded	0		Guntur WtE		In Progress		
45	Guntur	363	WtCNG Planned	0		Guntur WtE		Established	80	90%
46	Tadepalle	34	WtC Planned	0		Guntur WtE		Established	8	90%
47	Ponnur	29	WtC Planned	0		Guntur WtE		Established	6	90%
48	Chilakalurip et	49	WtC Planned	0		Guntur WtE		Established	12	90%
49	Mangalagiri	36	WtC Planned	0		Guntur WtE		Established	8	90%
50	Bapatla	34	WtCNG awarded	0		Guntur WtE		Established	8	90%
51	Repalle	25	WtC Awarded	0		Guntur WtE		Established	4	90%
52	Vinukonda	30	WtCNG awarded	0		Guntur WtE		InProgress		
53	Macherla	28	WtC Awarded	0		Feasibili ty Study under progress		Established	6	90%

54	Kadapa	167	WtCNG Planned	0		Connect ed to Cement Factories	6	Establis hed	40	90%
55	Dharmavara m	62	WtC Planned	0		RDF in progress		In Progress		
56	Kadiri	43	WtC Awarded	0		Connect ed to Cement Factories	1	Establis hed	8	90%
57	Gooty	24	WtC Planned	0		RDF in progress		Establis hed	4	90%
58	Pamidi	14	WtC Planned	0		RDF in progre ss		In Progress		
59	Hindupur	74	WtC Awarded	0		RDF in progre ss		In Progress		
60	Kurnool	224	WtCNG Planned	0		Connect ed to Cement Factories	2	In Progress		
61	Kalyandurg am	21	WtC Awarded	0		RDF in progre ss		Establis hed	2	90%
62	Madakasira	12	WtC Awarded	0		RDF in progre ss		Establis hed	2	90%
63	Machilipatn am	89	WtC Awarded	0		RDF Connect ed / Guntur WtE	3	Establis hed	20	90%
64	Mydukur	22	WtC Planned	0		Connect ed to Cement Factories	1	In Progress		
65	Nandigama	22	WtCNG awarded	0		RDF Connect ed / Guntur WtE	1	In Progress		
66	Nandikotku r	23	WtC Planned	0		Connect ed to Cement Factories	1	Establis hed	4	90%
67	Gudur K	14	WtC Planned	0		RDF in progre ss		In Progress		
68	Nandyal	98	WtCNG Planned	0		Connect ed to Cement Factories	3	In Progress		
69	Proddutur	79	WtCNG	0		Connect	2	In		

			Planned			ed to Cement Factories		Progress		
70	Pulivendula	32	Existing WtC	18	85%	Connect ed to Cement Factories	2	Establis hed	6	85%
71	Rajahmundry	168	WtCNG Planned	0		Connect ed to Cement Factories	3	Establis hed	40	90%
72	Rajampeta	23	WtC Planned	0		Connect ed to Cement Factories	1	In Progress		
73	Rayachoti	44	WtC Planned	0		Connect ed to Cement Factories	2	Establis hed	8	90%
74	Tadipatri	53	Existing WtC	29	90%	Connect ed to Cement Factories	2	Establis hed	10	90%
75	Tirupati	208	Existing WtCNG	114	85%	Connect ed to Cement Factories	4	Establis hed	45	85%
76	Ongole	123	WtCNG awarded	0		Guntur WtE		Establis hed	30	90%
77	Chimakurthy	17	WtC Awarded	0		Guntur WtE		In Progress		
78	Addanki	20	WtC Awarded	0		Guntur WtE		Establis hed	4	90%
79	Kandukur	28	WtC Awarded	0		Feasibili ty Study under progress		Establis hed	6	90%
80	Kakinada	159	WtCNG Planned	0		Feasibili ty Study under progress		Establis hed	35	90%
81	Vijayawada	507	Existing WtC	279	85%	RDF Connect ed / Guntur WtE	6	Establis hed	150	85%
82	Gollaprolu	11	WtC Planned	0		Feasibili ty Study under progress		In Progress		
83	Pithapuram	25	WtC Planned	0		Feasibili ty Study under progress		Establis hed	3	90%

84	Peddapuram	24	WtC Planned	0		Feasibility Study under progress		Established	3	90%
85	Samalkota	28	WtC Planned	0		Feasibility Study under progress		Established	4	90%
86	Yeleswaram	16	WtC Planned	0		Feasibility Study under progress		Established	2	90%
87	Ramachandrapuram	21	WtC Planned	0		Feasibility Study under progress		Established	2	90%
88	Mandapeta	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
89	Tuni	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%
90	Mummidivaram	12	WtC Awarded	0		Feasibility Study under progress		Established	2	90%
91	Amalapuram	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%
92	Eluru	106	WtCNG Planned	0		Feasibility Study under progress		Established	22	90%
93	Tadepalligudem	51	WtC Planned	0		Feasibility Study under progress		Established	8	90%
94	Tanuku	44	WtC Planned	0		Feasibility Study under progress		In Progress		
95	Palakollu	33	WtC Planned	0		Feasibility Study under progress		In Progress		
96	Narsapuram	29	WtC Planned	0		Feasibility Study under progress		Established	4	90%
97	Bhimavaram	69	WtC Planned	0		Feasibility Study		Established	12	90%

						under progress				
98	Nidadavole	21	WtC Planned	0		Feasibility Study under progress		In Progress		
99	Kovvur	19	WtC Planned	0		Feasibility Study under progress		In Progress		
100	Jangareddy Gudem	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
101	Chittoor	92	WtCNG Planned	0		Feasibility Study under progress		Established	18	90%
102	SriKalahasti	39	WtC Planned	0		Feasibility Study under progress		Established	8	90%
103	Nagari	30	WtC Planned	0		Feasibility Study under progress		In Progress		
104	Puttur	26	WtC Planned	0		Feasibility Study under progress		In Progress		
105	Nellore	300	WtCNG Planned	0		Feasibility Study under progress		In Progress		
106	Venkatagiri	25	WtC Planned	0		Feasibility Study under progress		In Progress		
107	Yerraguntla	17	WtC Planned	0		Connected to Cement Factories	1	In Progress		
108	Naidupet	22	WtC Planned	0		Feasibility Study under progress		Established	4	90%
109	Atmakur N	15	WtC Planned	0		Feasibility Study under progress		In Progress		
110	Kavali	51	WtC Planned	0		Feasibility Study under progress		Established	10	90%

111	Akiveedu	11	DPR under Progress - Newly Constituted ULB
112	Kondapalli	21	DPR under Progress - Newly Constituted ULB
113	Dachepali	11	DPR under Progress - Newly Constituted ULB
114	Gurazala	9	DPR under Progress - Newly Constituted ULB
115	Darsi	12	DPR under Progress - Newly Constituted ULB
116	Buchireddy Palem	12	DPR under Progress - Newly Constituted ULB
117	Penukonda	10	DPR under Progress - Newly Constituted ULB
118	Bethamchar la	14	DPR under Progress - Newly Constituted ULB
119	Kamlapura m	7	DPR under Progress - Newly Constituted ULB
120	Kupam	15	DPR under Progress - Newly Constituted ULB
Total		6850	

VI. Bio-medical Waste Management:

- Total Bio-medical generation: 15.0 Tones/ day
- No. of Hospitals and Health Care Facilities: 10,625 Nos.

Status of Treatment Facility/ CBMWTF	:	Presently, there are 12 Nos. of Common Bio-medical Waste Treatment Facilities (CBMWTFs) in covering total 13 Districts in Andhra Pradesh for treatment and disposal of bio-medical waste
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VII. Hazardous Waste Management:

- Total Hazardous Waste generation about: 51,770 TPM (Average)
- No. of Industries generating Hazardous waste: 2648 Nos.
- Quantity of Hazardous Sludge generated from the Industries in: 433.87 TPD (Average)
- Treatment Capacity of all TSDFs:
- **Avg. Quantity of Hazardous waste reaching the TSDFs and Treated:**

In Andhra Pradesh about 621337 TPA (100%) of hazardous waste is generated. Out which

- Utilizable waste is 570.01 TPM (suitable to use as raw material or as alternative fuel viz. Co-processing in Cement Plants so as to conserve the resources).
- Recyclable waste is 53 TPM (suitable for recycling /recovery of material viz. oil reclamation units, lead and zinc recovery units).

- iii) Incinerable waste is 346.95 TPM (not suitable for any recycling / reuse and having high calorific value i.e. > 2500 K cal/kg) and
- iv) Land fillable waste is 18333.23 TPM (not suitable for any recycling / reuse and having low calorific value i.e. < 2500 K cal/kg) is reaching and treated at the TSDFs in Visakhapatnam and Nellore.

• **Details of on-going or proposed TSDF:**

Two TSDF are existing in the State of Andhra Pradesh

- ✓ Ms, Coastal Waste Management Project Unit-1, Parwada, Visakhapatnam.
- ✓ Ms Coastal Waste Management Project Unit-2, a division of Mumbai Waste Management Limited, S.P.S.R. Nellore District

VIII. Plastic Waste Management:

Total plastic waste generation	46,222 TPA (As per Annual Report for the F.Y. 2019-20).
Treatment / Measures adopted for reduction or management of plastic waste	<ul style="list-style-type: none"> • The recyclable plastic waste generated is being sent to recycling units and the non-recyclable plastic waste is being sent to cement plants and utilizing for road construction in same ULBs. 18 Nos of recyclers registered with APPCB. Total recycling capacity is 17116 TPA. • 29 ULBs tied up with nearby Cement Plants for co-incineration of non- recyclable plastic waste and 5123 MTs of Non-recyclable plastic waste was sent to cement plants for the F.Y 2019-20. • The MA&UD and PR&RD Dept., informed that they have been conducting strict vigilance and surprise visits on those who store or use or sell or dispose plastic with less than 50 microns' thickness, for which 519 Task force teams were constituted for inspections and raids to control plastic sale and usage of less than 50 microns' thickness carry bags / films in the ULBs of A.P. About 239 tons of plastic carry bags were seized and Rs. 169 lakhs towards fine was collected.

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

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

- A total of 32 No's of outfall points of the major disposal drains have been identified which are contributing to River Pollution. All the above 32 No's of outfall points are provided with Meshes/Screens to prevent solid waste from falling in to the Rivers.

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

- XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:
- XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;
- APPCB has been monitoring the 5 polluted river stretches at 27 locations on monthly basis and the data is being uploaded in RRC Website <https://rrc.ap.gov.in/Views/Monitoring.aspx> every month. The monitoring of water quality data for the month of January 2021 is enclosed.
 - **As per the analysis of samples collected at 27 locations in the month of December 2020 the B.O.D value is less than 3.0 mg/lit.**
- XIV. Ground water regulation:
- XV. Good irrigation practices being adopted by the State:
- XVI. Rain Water Harvesting:
- XVII. Demarcation of Floodplain and removal of illegal encroachments:
- XVIII. Maintaining minimum e-flow of river:
- XIX. Plantation activities along the rivers:
- XX. Development of biodiversity park:
- XXI. Reuse of Treated Water:
- XXII. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:
- XXIII. Status of Preparation of Action Plan by the 13 Coastal States:
- XXIV. Regulation of Mining Activities in the State/UT:
- XXV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring

ENCLOSURES

ANNEXURE

Water quality status of polluted river stretches in Andhra Pradesh - 2021

I. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 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, 2021

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Parameter F.Y2021	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Standard		
														Class A	Class B	Class C
pH	4367	7.44												6.0 - 8.5	6.0 - 9.0	
	4359	7.50														
	0014	7.52														
	1218	7.36														
	2370	7.69														
	2371	7.05														
	1219	7.25														
	4365	7.22														
	4366	7.33														
	4358	7.57														
DO	4367	5.6												6.0	5.0	4.0
	4359	8.5														
	0014	6.0														
	1218	7.0														
	2370	8.4														
	2371	7.5														
	1219	7.2														
	4365	5.8														
	4366	5.4														
	4358	5.4														
BOD	4367	1.8												2.0	3.0	3.0
	4359	1.5														
	0014	1.8														
	1218	2.0														
	2370	1.4														
	2371	1.8														
	1219	2.0														
	4365	2.0														
	4366	2.6														
	4358	2.4														

2. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 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, 2021:

Parameter F.Y2021	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1175	7.8												6.0 - 8.5	6.0 - 9.0	
	3083	7.7														
	4381	7.88														
	1786	7.27														
	1787	7.22														
	0025	7.76														
	4375	7.79														
	1782	7.30														

DO	1175	5.7												6.0	5.0	4.0
	3083	7.7														
	4381	7.3														
	1786	7.3														
	1787	7.1														
	0025	7.0														
	4375	7.0														
	1782	4.4														
BOD	1175	1.5												2.0	3.0	3.0
	3083	1.5														
	4381	2.8														
	1786	2.6														
	1787	2.4														
	0025	2.2														
	4375	2.0														
	1782	2.6														
Total Coliform	1175	350												50	500	5000
	3083	250														
	4381	120														
	1786	150														
	1787	93														
	0025	120														
	4375	130														
	1782	64														

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, Total Coliform, Fecal Coliform and TDS for the year, 2021 is as follows:

S. No.	Code	Location point
01	1785	Manthralayam, Kurnool Dist.
02	1174	Bhavapuram, Kurnool Dist.
03	4388	U/S of Kurnool town B/C with domestic sewage & A/c of Rayalaseema alkalies industries at Gondiparla, Kurnool.
04	4389	D/S of Kurnool town A/C with domestic sewage at Gondiparla, Kurnool.

Month-wise data of water quality of river Tungabhadra, 2021

Parameter F.Y2021	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1785	7.8												6.0 – 8.5	6.0 – 9.0	
	1174	7.6														
	4388	6.8														
	4389	7.1														
DO	1785	5.3												6.0	5.0	4.0
	1174	5.5														
	4388	5.3														
	4389	5.2														
BOD	1785	2.8												2.0	3.0	3.0
	1174	2.3														
	4388	2.3														
	4389	2.8														
Total Coliform	1785	540												50	500	5000
	1174	920														

F.Y2021								Jul	Aug					Class A	Class B	Class C			
pH	4351	7.86												6.0 – 8.5	6.0 – 9.0				
	1448	7.52																	
	4346	8.28																	
	4347	8.10																	
DO	4351	6.0												6.0	5.0	4.0			
	1448	5.9																	
	4346	8.4																	
	4347	6.4																	
BOD	4351	1.3												2.0	3.0	3.0			
	1448	1.9																	
	4346	1.4																	
	4347	1.9																	
Total Coliform	4351	210												50	500	5000			
	1448	120																	
	4346	120																	
	4347	150																	
Fecal Coliform	4351	21												----	500	----			
	1448	9																	
	4346	7																	
	4347	11																	
TDS	4351	236												500-2000					
	1448	192																	
	4346	252																	
	4347	280																	
Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal Coliform. Total Coliform & Fecal Coliform is expressed in MPN count / 100 ml.																			
Remarks: BOD & Fecal coliform values found to within the standard limits stipulated for bathing at all the locations.																			

5. 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, Total Coliform, Fecal Coliform and TDS for the year, 2021 is as follows:

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

Month-wise data of water quality of river Kundu, 2021

Parameter F.Y2021	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
													Class A	Class B	Class C
pH	7.5												6.0 – 8.5		6.0 – 9.0
DO	5.1												6.0	5.0	4.0
BOD	2.5												2.0	3.0	3.0
Total Coliform	920												50	500	5000
Fecal Coliform	350												---	500	---
TDS	446												500 - 2000		
Note: All values are expressed in mg/L except pH, Total Coliform & Fecal Coliform value. Total 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.															

CPCB Water Quality Criteria for Designated Best Use

Designated-best- use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection.	A	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 50 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 6 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 2mg/l or less.
Outdoor bathing (Organized)	B	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 500 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 5 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less.
Drinking Water Source after conventional treatment and disinfection.	C	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 5000 or less. • pH between 6 to 9 • Dissolved oxygen 4 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Propagation of Wild life and Fisheries.	D	<ul style="list-style-type: none"> • pH between 6.5 to 8.5 • Dissolved oxygen 4 mg/l or more. • Free Ammonia (as N) 1.2 mg/l or less • pH 9 between 6.0 to 8.5.
Irrigation, Industrial Cooling, Controlled Waste disposal.	E	<ul style="list-style-type: none"> • Electrical Conductivity at 25°C micro mhos/cm Max. 2250. • Sodium Absorption ratio Max. 26 • Boron Max.2 mg/l.
	Below -E	Not Meeting A, B, C, D & E Criteria.

GOVERNMENT OF ANDHRA PRADESH
MUNICIPAL ADMINISTRATION & URBAN DEVELOPMENT (UBS) DEPARTMENT

Letter No. 1282446/UBS/2020

Dated: 21-01-2021

From
The Secretary to Government,
MA & UD Department,
A.P. Secretariat,
Velagapudi,
Guntur District

To
The Secretary,
Ministry of Jal Sakti,
MoHUA.,
Government of India,
New Delhi.(w.e.)

Sir,

Sub:- MA & UD Department - National Green Tribunal – Orders of the National Green Tribunal Principal Bench, New Delhi in OA No.673/2018 - Monthly Progress Report for the month of December, 2020 - furnished – Regarding.

Ref:- Orders of the National Green Tribunal Principal Bench, New Delhi in OA No.673/2018, dt.24.09.2020.

In compliance to the directions of the Hon'ble National Green Tribunal Principal Bench, New Delhi in the reference cited, I am herewith enclose the Monthly Progress Report in the prescribed format for the month of December, 2020 for taking further necessary action.

Yours faithfully,

G. Sodha Ray
For SECRETARY TO GOVERNMENT

National Mission for Clean Ganga
Format for submission of Monthly Progress Report for
the month of December, 2020 in the NGT Matter OA No. 673
of 2018 (in compliance to NGT order dated 24.09.2020)

For the State of Andhra Pradesh

Overall status of the State:

- I. Total Urban Population: 1.48 Cr
- II. Estimated Sewage Generation: 1463.20 MLD

III. Details of Sewage Treatment Plants:

- Existing no. of STPs and Treatment Capacity (in MLD) : 515.85 MLD (43No's)
- Present Gap in Treatment Capacity in MLD : 947.35 MLD
- Capacity of under construction STP's (32 No's) : 473.77 MLD
- No. of Operational STPs : 43 Nos
- No. of Complying STPs : 43 Nos
- No. of Non-complying STPs : Nil

III A): Details of Each Existing STP in the State:

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Operational Status of STP	Compliance Status of STP
1	Visakhapatnam (GVMC)	Old town	May'2019	38.00	Operational	Comply
2		Appughar	26.09.2010	25.00	Operational	Comply
3		Mudasarlova	April'2008	13.00	Operational	Comply
4		Narava	Aug-01	54.00	Operational	Comply
5		Anakapalle	April'2018	15.00	Operational	Comply
6		Madinabagh		2.00	Operational	Comply
7		Yathapalem Colonies	April'2008	2.50	Operational	Comply
8		Gajuwaka	April'2008	0.50	Operational	Comply
9		Karnavanipalem	Dec' 2019	5.00	Operational	Comply
10		Mantripalem	April' 2008	1.00	Operational	Comply
11		Aganampudi	Dec' 2015	6.00	Operational	Comply
12		RathiCheruvu	Sep' 2019	2.00	Operational	Comply
13		Kommadi / Madhurawada	Aug' 2018	4.00	Operational	Comply
14		Bakkannapalem	Aug' 2011	1.00	Operational	Comply
15		Marikavalasa	Dec' 2012	2.00	Operational	Comply

16		Vambay Colony	Aug' 2011	3.00	Operational	Comply
17		YSR Nagar	Aug' 2011	2.00	Operational	Comply
18		Boyapalem	Aug' 2011	1.00	Operational	Comply
			Total	177.00		
19	Rajamahendravaram	Hukumpeta	03.01.2009	30.00	Operational	Comply
20	Vijayawada	Ajith Singh Nagar-1	31.05.2011	40.00	Operational	Comply
21		Ajith Singh Nagar-2	31.05.2012	20.00	Operational	Comply
22		Ramalingeswar Nagar-1	30.06.2012	20.00	Operational	Comply
23		Ramalingeswar Nagar-2	20.10.2006	10.00	Operational	Comply
24		Autonagar Nagar-1	31.03.2005	10.00	Operational	Comply
25		Autonagar Nagar-2	31.12.2018	10.00	Operational	Comply
26		Jakkampudi	31.07.2017	20.00	Operational	Comply
				130.00		
27	Tirupathi	Thukivakam		50.00	Operational	Comply
28	Kadapa	Nanapally	02.08.2012	20.00	Partly Operational	Comply
29	Pulivendula	Rotarypuram	25.01.2009	6.50	Partly Operational	Comply
30	Tadipatri	Gannevaripalle	10.10.2010	3.50	Operational	Comply
31		Gannevaripalle	10.10.2010	8.00	Operational	Comply
				11.50		
32	Puttaparthi	1.Sai Nagar	20.7.2001	0.50	Operational	Comply
33		2. Gokulam	20.7.2001	0.50	Under Rehabilitation	Comply
34		3. Prasanthi Gram	20.7.2001	0.50	Under Rehabilitation	Comply
				1.50		
35	Narsaraopeta	CPT Road	02.02.2018	15.55	Operational	Comply
36	Nellore	Janardhan Reddy Colony		5.00	Under Construction	Comply
37		Allepuram		55.00	Under Construction	Comply
38		Drivers Colony		11.00	Under Construction	Comply
				71.00		
39	Kurnool	Jammichettu	12.03.2019	0.80	Operational	Comply
40		SankalBagh	12.03.2019	0.80	Operational	Comply
41		Tungabhadra PumpHouse	10.03.2018	0.80	Operational	Comply
				2.40		

42	Tadepalli	Mahanadu-1	10.12.2018	0.20	Operational	Comply
43		Mahanadu-2	15.12.2018	0.20		Comply
		TOTAL		515.85		

III B) Details of Under Construction STPs in the State:

S.No.	Location	Scheme Name	Capacity of the plant in MLD	Physical Progress in %	Completion Timeline
1	Srikakulam	AMRUT	10.00	45%	December2021
2	Vizianagaram	AMRUT	5.00	53%	March2021
3	GVMC	JnNURM	2.00	50%	March2021
4	GVMC	Smart City (Package-I)	46.00	48%	December2021
5	Kakinada	AMRUT	5.00	24%	December2021
6	Rajamahendravaram	AMRUT	5.00	5%	December2021
7	Bhimavaram	AMRUT	5.00	22%	December2021
8	Tadepalligudem	AMRUT	5.00	0%	December2021
9	Eluru	AMRUT	5.00	29%	December2021
10	Machilipatnam	AMRUT	5.00	45%	December2021
11	Gudivada	AMRUT	5.00	32%	December2021
12	Vijayawada	JnNURM	20.00	83%	December2021
13	Guntur	OTSFA	123.00	50%	Jun2022
14	Tenali	AMRUT	10.00	25%	December2021
15	Tenali	14 FC	2.00	5%	December2021
16	Ongole	AMRUT	15.00	40%	December2021
17	Chilakaluripeta	AMRUT	5.00	20%	December2021
18	Kavali	AMRUT	15.00	71%	December2021
19	Nellore	HUDCO	34.00	81%	December2021
20	Tirupati	Smart City	25.00	25%	December2021
21	Srikalahasti	AMRUT	7.00	8%	December2021
22	Madanapalle	AMRUT	5.00	12%	December2021
23	Kadapa	AMRUT	20.00	0%	December2021
24	Anantapuramu	AMRUT	10.00	0%	December2021
25	Dharmavaram	AMRUT	15.00	0%	December2021
26	Guntakal	AMRUT	8.00	0%	December2021
27	Kurnool	AMRUT	2.00	20%	December2021
28	Kurnool	AMRUT	10.00	5%	December2021
29	Nandyal	AMRUT	10.00	5%	December2021
30	Yemmiganur	UIDSSMT	19.50	96%	December2021
31	Adoni	AMRUT	5.00	10%	December2021
32	Pulivendula	PLAN	15.27	0%	December2022
		Total	473.77		

III C) Details of proposed STPs in the State

S.No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1	Kanigiri	6.00	Tenders have been called & to be opened on 1 st February 2021	Two years after date of award of the work
2	Sullurpet	9.00		
3	Allagadda	5.00		
4	Nandikotkur	5.00		
5	Madakasira	5.00		
6	Rayachoti	22.40		
	Total	52.40		

III.D) STPs in Proposal stage:

Phase	Description	No. of ULBs	Proposed Total STP capacities (MLD)	Requirement of Funds for Total STPs (crores)
I	Municipal Corporations	16	407.93	571.20
II	ULBs having population above 1 Lakhs	17	218.73	305.20
III	ULBs having Population ranging between 75,000 to 1 Lakh	7	57.68	114.00
IV	ULBs having Population less than 75,000	78	530.93	1058.00
	Total		1215.27	2048.40

III E) STATUS OF STPs UNDER RIVER STRETCHES:

- Total Estimated Sewage Generation (in MLD) 2020 : 302.00 MLD
- Existing no. of STP with Treatment Capacity (in MLD) : 162.40 MLD
- Present Gap in Treatment Capacity (in MLD) : 139.60 MLD
- Capacity of under Construction STPs (in MLD) : 57.00 MLD

S.No	Name of River Stretch	Name of the ULB	STP Capacity	Status of Ongoing Works	Status of DPRs
PRIORITY-IV RIVERS					
1.	Tungabhadra	Kurnool	10 MLD	5%	DPR prepared for Rs.304.00 Crores proposed additional STPs of 78 MLD to satisfy the demand for the year 2035 and submitted to the Govt. of Andhra Pradesh for according administrative sanction. 1.At Tungabhadra pumphouse- 5.00 MLD 2. At RojaDargha -3.00 MLD 3. At RojaDargha – I -2.00 MLD 4.At Sri Chaitanya School – II - 5.00 MLD 5.At Saibaba Temple -3.00 MLD 6. At Nagasai Temple -2.00 MLD 7. At Nagasai Temple –I -3.00 MLD 8.At Law College -2.00 MLD 9. At RaghavendraMatam - 5.00 MLD 10. At NagulaKatta - 8.00 MLD 11. At Jammichettu- 40.00MLD Total - 78.00 MLD
			2 MLD	20%	
2	Kundu	Nandyal	10 MLD	5%	Comprehensive DPR on UGD scheme is prepared for Rs.85.00 Cr with STPs capacity of 26 (21 + 5) MLD to cater the needs of 2035 year. DPR submitted to the Govt. of Andhra Pradesh for according Administrative Sanction.

S.No	Name of River Stretch	Name of the ULB	STP Capacity	Status of Ongoing Works	Status of DPRs
PRIORITY-V RIVERS					
1.	Nagavali	Srikakulam	10 MLD	45%	Comprehensive proposal for providing UGD scheme for 2035 needs is prepared for an amount of Rs.190.36 Cr with an additional STP capacity of 12 MLD.
2.	Godavari	Rajamahendravaram	5 MLD	5%	DPR on Comprehensive UGD scheme prepared with additional STP's of capacity 72.37 MLD for an amount of Rs.404.00 Cr. RMC has attended the remarks and resubmitted the proposals. Now it is proposed to take up the works with an estimated cost of Rs.107.00 crores in the first year.

3.	Krishna	Vijayawada	20 MLD	83%	DPR is prepared for Rs.246.38 Cr to for providing Comprehensive UGD scheme to meet the 2035 demand including up-gradation of 2 STPs of 30.00 MLD capacity.
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IV. Details of Industrial Pollution:

- No. of industries in the State: 9941 No's
- No. of water polluting industries in the State: 1069 No's
- Quantity of effluent generated from the industries in MLD: 4494.33 MLD (**the break up of effluent is through *Once through Cooling water: 3826.13 MLD + Process waste water : 364.97 MLD + cooling tower/Boiler blow down: 254.118 MLD + Domestic discharge: 49.54 MLD***)
 - ✓ From the total industrial generation, major portion is once through cooling water (85%) and the discharge temperatures are maintained not more than 5^oC temperature of water temperature.
 - ✓ From the Cooling tower/Boiler blow down (5.6%).
 - ✓ The remaining 9.4% is generated from Process waste water & Domestic Discharges..
- Quantity of Hazardous Sludge generated from the Industries in TPD: 1,58,364.459 TPA
- Number of industrial units having ETPs: 1069 No's
- Number of industrial units connected to CETP: 330 No's
- Number and total capacity of ETPs (details of existing/ under construction / proposed)
 - i. Existing: 1069 no's ETPs
- Compliance status of the ETPs: APPCB is regularly monitoring the compliance status of ETPs
- Number and total capacity of CETPs (details of existing/ under construction / proposed)
 - i. Existing: 7 No's with total capacity of 31 MLD
 - ii. Under construction: Nil
 - iii. Proposed: Nil

S.No.	Name and Address of the CETP & contact person	Design capacity	Current Operating capacity	Type and No. of member units	Compliance status
1.	Brandix India Apparel City Private Limited, APSEZ, AtchutapuramPudim adaka Road, Visakhapatnam.	20 MLD	*4 MLD	Textile park- 14 units	Complied *In Brandix India Apparel City, textile industries were not established as anticipated. Hence effluent generation is less.
2.	Ramky Pharma City (India) Ltd, JN Pharma City, Parawada Mandal, Visakhapatnam.	5.0 MLD	4.8 MLD	Pharmaceutical & Bulk drugs-92 units	Complied
3.	KondapallyEnvirotech Pvt. Ltd., (KEPL), IDA, Kondapalli(V), Ibrahimpattam (M), Krishna District.	0.2 MLD	0.15 MLD	Pharmaceutical & Bulk drugs-13 units	Complied
4.	Vijayawada Auto Cluster Development Company, Industrial Estate, Auto Nagar, Vijayawada.	0.2 MLD	0.2 MLD	Food beverages, Herbal pharma, Oil solvents & lubricants - 38 units	Complied
5.	Machilipatnam Imitation Jewellery Park Pvt. Ltd., Jewellery Park, Pothepalli, Machilipatnam.	0.07 MLD	0.002 MLD	Electro Plating - 48 Units	Complied
6.	Nagari Dyeing Owners Association, Chinthalapattada (V),Nagari (M), Chittoor District.	4 MLD	0.8 MLD	Manual Dyeing units - 105 units	Complied
7.	Atchuthapuram Effluent Treatment Plant, Atchutapuram Visakhapatnam.	1.5 MLD	1.5 MLD	Pharmaceutical & Bulk drugs-20 units	Complied

V. Solid Waste Management:

- Total number of Urban Local Bodies: **120** and their Population: **1.48** Crore
- Current Municipal Solid Waste Generation: **6850** TPD. for 120 ULBs
- (10 Newly Constituted ULBs – These ULBs have not yet developed urban Dynamics)
- 2 Waste to Energy Projects covering 13 ULBs are in progress with an installed capacity of 1500 TPD (30 MW),
- 30 wet waste projects covering 33 ULBs treating 1400 TPD with an installed capacity of 1600 TPD are existing.
- 23 wet waste projects covering 24 ULBs are in progress with an installed capacity of 500 TPD.
- 53 Wet waste projects (43 compost and 10 Biomethanation) covering 53 ULBs are proposed and RFP process is in progress and Feasibility study of 2 Waste to Energy projects is under progress
- Detailed Project Reports are being prepared for Waste Treatment units in the Newly Constituted ULBs.
- 76 Material Recovery facilities covering 76 ULBs treating 810 TPD with an installed capacity of 1000 TPD Existing.
- 44 Material Recovery facilities covering 44 ULBs are in progress with an installed capacity of 500 TPD.
- 3 Construction and Demolition waste processing plants in Greater Visakhapatnam Municipal Corporation, Vijayawada Municipal Corporation and Tirupati Municipal Corporation treating 100 TPD with an installed capacity of 200 TPD are existing.
- The Source Segregation in the State is 81 % and capacity utilization of the treatment units is the same percentage. Ward Secretariats and volunteer system established and unique in the State are ensuring 99 % door to door collection.
- Total no. of wards: 3634. No. of wards having door to door collection service: 3634. No. of wards practicing segregation at source: 2944
- 114 Dumpsites with an area of 1000 acres are existing in the state. Out of which remediation of 4 dumpsites in 4 ULBs (Visakhapatnam, Vijayawada, Tirupati and Tanuku) are under progress
- No Dumpsites of legacy waste are within 1km buffer of both side of the rivers in the State.

S.No	Name of the ULB	Waste Generated (TPD)	Wet waste processing	Plant Capacity(TPD)	Capacity Utilization	Dry Waste Processing				
						RDF	Waste Sent in TPD	MRF	Plant Capacity TPD	Capacity Utilization
1	Amudalavalasa	19	Existing WtC	10	85%	VizagWtE		Established	4	85%
2	Ichchapuram	18	Existing WtC	10	85%	Feasibility Study under progress		Established	2	85%
3	Palasakasibugga	28	Existing WtC	15	80%	Feasibility Study under progress		InProgress		
4	Rajam	21	Existing WtC	12	80%	VizagWtE		Established	4	85%
5	Bobbili	29	Existing WtC	16	90%	VizagWtE		Established	8	85%
6	Salur	24	Existing WtC	13	90%	VizagWtE		Established	6	90%
7	GVMC	918	Existing WtC	505	85%	VizagWtE		Established	300	85%
8	Narsipatnam	30	Existing WtC	17	80%	VizagWtE		Established	8	85%
9	Yellamanchali	23	Existing WtC	13	80%	VizagWtE		Established	4	85%
10	Adoni	81	Existing WtCNG	45	80%	Connected to Cement Factories	3	Established	20	85%
11	Nuzivid	29	Existing WtC	16	80%	Guntur WtE		InProgress		
12	Thiruvuru	17	Existing WtCNG	9	80%	Guntur WtE		Established	2	85%
13	Tenali	80	Existing WtC	44	90%	Guntur WtE		Established	20	90%
14	Sattenpalle	28	WtCNG - Pidugurala	15	85%	Guntur WtE		Established	6	85%
15	Narsaraopet	57	WtCNG - Pidugurala	31	85%	Guntur WtE		Established	16	85%
16	Piduguralla	31	Existing WtCNG	17	85%	Guntur WtE		InProgress		
17	Allagadda	20	Existing WtC	11	85%	Connected to Cement Factories	1	Established	4	85%
18	Rayadurgam	30	Existing WtC	17	85%	RDF inprogress		Established	6	85%
19	Puttaparty	15	Existing WtC	8	85%	RDF inprogress		Established	2	85%

						s				
20	Yemmiganur	46	WtCNG - Adoni	25	85%	RDF inprogress		Established	10	85%
21	Anantapur	131	WtCNG Planned	0		Connected to Cement Factories	8	Established	35	90%
22	Atmakur K	22	WtC Awarded	0		Connected to Cement Factories	1	Established	4	90%
23	Badvel	35	WtC Planned	0		Connected to Cement Factories	2	InProgress		
24	Dhone	29	WtC Planned	0		Connected to Cement Factories	2	Established	6	90%
25	Markapur	35	Existing WtC	19	80%	Feasibility Study under progress		Established	8	85%
26	Giddalur	19	Existing WtC	10	85%	RDF inprogress		Established	4	85%
27	Kanigiri	22	Existing WtC	12	85%	Feasibility Study under progress		Established	4	85%
28	Chirala	42	Existing WtC	23	90%	Guntur WtE		Established	9	90%
29	Gudivada	58	WtCNG awarded	0		RDF Connected / Guntur WtE	3	Established	14	90%
30	Palamaneru	25	Existing WtC	14	85%	Feasibility Study under progress		InProgress		
31	Punganur	27	Existing WtC	15	80%	Feasibility Study under progress		Established	6	85%
32	Madanpalle	67	Existing WtCNG	37	85%	RDF inprogress		InProgress		
33	Sullurpet	22	Existing WtC	12	80%	Feasibility Study under progress		Established	4	85%
34	Srikakulam	65	WtCNG	0		VizagWt		Established	16	90%

			Planned			E		shed		
35	Palakonda	16	WtC Awarded	0		VizagWt E		InProg ress		
36	Vizianagara m	119	WtCNG Planned	0		VizagWt E		Establi shed	30	90%
37	Parvathipur am	26	WtC Awarded	0		VizagWt E		InProg ress		
38	Nellimarla	14	WtC Planned	0		VizagWt E		Establi shed	2	90%
39	Gudur N	36	WtC Planned	0		Connecte d to Cement Factories	2	InProg ress		
40	Guntakal	62	WtC Planned	0		Connecte d to Cement Factories	2	Establi shed	14	90%
41	Jaggaihp et	26	WtCNG awarded	0		RDF Connecte d/ Guntur WtE	1	InProg ress		
42	Jammalama dugu	22	Existing WtC	12	80%	Connecte d to Cement Factories	1	InProg ress		
43	Pedana	16	WtC Awarded	0		Guntur WtE		InProg ress		
44	Vuyyuru	20	WtC Awarded	0		Guntur WtE		InProg ress		
45	Guntur	363	WtCNG Planned	0		Guntur WtE		Establi shed	80	90%
46	Tadepalle	34	WtC Planned	0		Guntur WtE		Establi shed	8	90%
47	Ponnur	29	WtC Planned	0		Guntur WtE		Establi shed	6	90%
48	Chilakaluri p et	49	WtC Planned	0		Guntur WtE		Establi shed	12	90%
49	Mangalagiri	36	WtC Planned	0		Guntur WtE		Establi shed	8	90%
50	Bapatla	34	WtCNG awarded	0		Guntur WtE		Establi shed	8	90%
51	Repalle	25	WtC Awarded	0		Guntur WtE		Establi shed	4	90%
52	Vinukonda	30	WtCNG awarded	0		Guntur WtE		InProg ress		
53	Macherla	28	WtC Awarded	0		Feasibilit y Study under progress		Establi shed	6	90%
54	Kadapa	167	WtCNG Planned	0		Connecte d to Cement Factories	6	Establi shed	40	90%

55	Dharmavaram	62	WtC Planned	0		RDF inprogress		InProgress		
56	Kadiri	43	WtC Awarded	0		Connected to Cement Factories	1	Established	8	90%
57	Gooty	24	WtC Planned	0		RDF inprogress		Established	4	90%
58	Pamidi	14	WtC Planned	0		RDF inprogress		InProgress		
59	Hindupur	74	WtC Awarded	0		RDF inprogress		InProgress		
60	Kumool	224	WtCNG Planned	0		Connected to Cement Factories	2	InProgress		
61	Kalyandurgam	21	WtC Awarded	0		RDF inprogress		Established	2	90%
62	Madakasira	12	WtC Awarded	0		RDF inprogress		Established	2	90%
63	Machilipatnam	89	WtC Awarded	0		RDF Connected / Guntur WtE	3	Established	20	90%
64	Mydukur	22	WtC Planned	0		Connected to Cement Factories	1	InProgress		
65	Nandigama	22	WtCNG awarded	0		RDF Connected / Guntur WtE	1	InProgress		
66	Nandikotkur	23	WtC Planned	0		Connected to Cement Factories	1	Established	4	90%
67	Gudur K	14	WtC Planned	0		RDF inprogress		InProgress		
68	Nandyal	98	WtCNG Planned	0		Connected to Cement Factories	3	InProgress		
69	Proddutur	79	WtCNG Planned	0		Connected to Cement	2	InProgress		

						Factories				
70	Pulivendula	32	Existing WtC	18	85%	Connecte d to Cement Factories	2	Establi shed	6	85%
71	Rajahmundry	168	WtCNG Planned	0		Connecte d to Cement Factories	3	Establi shed	40	90%
72	Rajampeta	23	WtC Planned	0		Connecte d to Cement Factories	1	InProg ress		
73	Rayachoti	44	WtC Planned	0		Connecte d to Cement Factories	2	Establi shed	8	90%
74	Tadipatri	53	Existing WtC	29	90%	Connecte d to Cement Factories	2	Establi shed	10	90%
75	Tirupati	208	Existing WtCNG	114	85%	Connecte d to Cement Factories	4	Establi shed	45	85%
76	Ongole	123	WtCNG awarded	0		Guntur WtE		Establi shed	30	90%
77	Chimakurthy	17	WtC Awarded	0		Guntur WtE		InProg ress		
78	Addanki	20	WtC Awarded	0		Guntur WtE		Establi shed	4	90%
79	Kandukur	28	WtC Awarded	0		Feasibilit y Study under progress		Establi shed	6	90%
80	Kakinada	159	WtCNG Planned	0		Feasibilit y Study under progress		Establi shed	35	90%
81	Vijayawada	507	Existing WtC	279	85%	RDF Connecte d / Guntur WtE	6	Establi shed	150	85%
82	Gollaprolu	11	WtC Planned	0		Feasibilit y Study under progress		InProg ress		
83	Pithapuram	25	WtC Planned	0		Feasibilit y Study under progress		Establi shed	3	90%
84	Peddapuram	24	WtC Planned	0		Feasibilit y Study		Establi shed	3	90%

						under progress				
85	Samalkota	28	WtC Planned	0		Feasibility Study under progress		Established	4	90%
86	Yeleswaram	16	WtC Planned	0		Feasibility Study under progress		Established	2	90%
87	Ramachandrapuram	21	WtC Planned	0		Feasibility Study under progress		Established	2	90%
88	Mandapeta	26	WtC Planned	0		Feasibility Study under progress		Established	4	90%
89	Tuni	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%
90	Mummidivaram	12	WtC Awarded	0		Feasibility Study under progress		Established	2	90%
91	Amalapuram	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%
92	Eluru	106	WtCNG Planned	0		Feasibility Study under progress		Established	22	90%
93	Tadepalligudem	51	WtC Planned	0		Feasibility Study under progress		Established	8	90%
94	Tanuku	44	WtC Planned	0		Feasibility Study under progress		InProgress		
95	Palakollu	33	WtC Planned	0		Feasibility Study under progress		InProgress		
96	Narsapuram	29	WtC Planned	0		Feasibility Study under progress		Established	4	90%
97	Bhimavaram	69	WtC Planned	0		Feasibility Study under progress		Established	12	90%

98	Nidadavole	21	WtC Planned	0		Feasibilit y Study under progress		InProg ress		
99	Kovvur	19	WtC Planned	0		Feasibilit y Study under progress		InProg ress		
100	Jangareddy Gudem	26	WtC Planned	0		Feasibilit y Study under progress		Establi shed	4	90%
101	Chittoor	92	WtCNG Planned	0		Feasibilit y Study under progress		Establi shed	18	90%
102	SriKalahasti	39	WtC Planned	0		Feasibilit y Study under progress		Establi shed	8	90%
103	Nagari	30	WtC Planned	0		Feasibilit y Study under progress		InProg ress		
104	Puttur	26	WtC Planned	0		Feasibilit y Study under progress		InProg ress		
105	Nellore	300	WtCNG Planned	0		Feasibilit y Study under progress		InProg ress		
106	Venkatagiri	25	WtC Planned	0		Feasibilit y Study under progress		InProg ress		
107	Yerraguntla	17	WtC Planned	0		Connecte d to Cement Factories	1	InProg ress		
108	Naidupet	22	WtC Planned	0		Feasibilit y Study under progress		Establi shed	4	90%
109	Atmakur N	15	WtC Planned	0		Feasibilit y Study under progress		InProg ress		
110	Kavali	51	WtC Planned	0		Feasibilit y Study under progress		Establi shed	10	90%
111	Akiveedu	11	DPR under Progress - Newly Constituted ULB							

112	Kondapalli	21	DPR under Progress - Newly Constituted ULB
113	Dachepali	11	DPR under Progress - Newly Constituted ULB
114	Gurazala	9	DPR under Progress - Newly Constituted ULB
115	Darsi	12	DPR under Progress - Newly Constituted ULB
116	Buchireddy Palem	12	DPR under Progress - Newly Constituted ULB
117	Penukonda	10	DPR under Progress - Newly Constituted ULB
118	Bethamchar la	14	DPR under Progress - Newly Constituted ULB
119	Kamlapura m	7	DPR under Progress - Newly Constituted ULB
120	Kupam	15	DPR under Progress - Newly Constituted ULB
Total		6850	

VI. Bio-medical Waste Management:

- Total Bio-medical generation: 15.0 Ton/ day
- No. of Hospitals and Health Care Facilities: 10,225Nos.

Status of Treatment Facility/ CBMWTF	:	Presently, there are 12 Nos. of Common Bio-medical Waste Treatment Facilities (CBMWTFs) covering total 13 Districts in Andhra Pradesh for treatment and disposal of bio-medical waste
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VII. Hazardous Waste Management:

- Total Hazardous Waste generation: 621337 TPA
- No. of Industries generating Hazardous waste: 2648 Nos.
- Quantity of Hazardous Sludge generated from the Industries in TPD: 1,58,364.459 TPA
- Treatment Capacity of all TSDFs:

Avg. Quantity of Hazardous waste reaching the TSDFs and Treated:

In Andhra Pradesh about 6,21,337 TPA (100%) of hazardous waste is generated. Out which

- Utilizable waste is 342054.1586 TPA (55.05%) (suitable to use as raw material or as alternative fuel viz. Co-processing in Cement Plants so as to conserve the resources),
- Recyclable waste is 116246.344 TPA (18.71%) (suitable for recycling /recovery of material viz. oil reclamation units, lead and zinc recovery units),
- Incinerable waste is 4287.0879 (0.69%) (not suitable for any recycling / reuse and having high calorific value i.e. > 2500 K cal/kg) and

- iv) Land fillable waste is 1,58,364.459 TPA (25.49%) (not suitable for any recycling / reuse and having low calorific value i.e. < 2500 K cal/kg) is reaching and treated at the TSDFs in Visakhapatnam and Nellore.

• **Details of on-going or proposed TSDF :**

Two TSDF are existing in the State of Andhra Pradesh

- ✓ MsRamkyPharmacy India Pvt Ltd, Parwada, Visakhapatnam.
- ✓ Ms Coastal Waste Management Project Unit-2 , a division of Mumbai Waste Management Limited, S.P.S.R. Nellore District

VIII. Plastic Waste Management:

Total plastic waste generation	46,222 TPA (As per Annual Report for the F.Y. 2019-20).
Treatment / Measures adopted for reduction or management of plastic waste	<ul style="list-style-type: none"> • The recyclable plastic waste generated is being sent to recycling units and the non-recyclable plastic waste is being sent to cement plants and utilizing for road construction in same ULBs. 14 Nos of recyclers registered with APPCB. Total recycling capacity is 17116 TPA. • 28 ULBs tied up with nearby Cement Plants for co-incineration of non- recyclable plastic waste and 5123 MTs of Non recyclable plastic waste was sent to cement plants for the F.Y 2019-20. • The MA&UD and PR&RD Dept., informed that they have been conducting strict vigilance and surprise visits on those who store or use or sell or dispose plastic with less than 50 microns thickness, for which 519 Task force teams were constituted for inspections and raids to control plastic sale and usage of less than 50 microns thickness carry bags / films in the ULBs of A.P. About 239 tons of plastic carry bags were seized and Rs. 169 lakhs towards fine was collected.

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

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

A total of 32 No's of outfall points of the major disposal drains have been identified which are contributing to River Pollution. All the above 32 No's of outfall points are provided with Meshes/Screens to prevent solid waste from falling in to the Rivers.

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

- XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:
- XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;
- APPCB has been monitoring the 5 polluted river stretches at 27 locations on monthly basis and the data is being uploaded in RRC Website <https://rrc.ap.gov.in/Views/Monitoring.aspx> every month. **The monitoring of water quality data for the month of December 2020 is enclosed.**
 - As per the analysis of samples collected at 27 locations in the month of December 2020 the B.O.D value is less than 3.0 mg/lit.
- XIV. Ground water regulation;
- XV. Good irrigation practices being adopted by the State;
- XVI. Rain Water Harvesting;
- XVII. Demarcation of Floodplain and removal of illegal encroachments;
- XVIII. Maintaining minimum e-flow of river;
- XIX. Plantation activities along the rivers;
- XX. Development of biodiversity park;
- XXI. Reuse of Treated Water;
- XXII. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards;
- XXIII. Status of Preparation of Action Plan by the 13 Coastal States;
- XXIV. Regulation of Mining Activities in the State/UT;
- XXV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring

ENCLOSURES

ANNEXURE

Water quality status of polluted river stretches in Andhra Pradesh - 2020

I. 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	Jul	Aug	Sep	Oct	Nov	Dec	Standard		
														Class A	Class B	Class C
pH	4367	8.5	7.9	8.72	8.68	8.44	8.54	7.2	7.35	7.26	7.79	7.99	7.81	6.0 - 8.5	6.0 - 9.0	
	4359	7.9	7.8	7.49	7.69	--	--	--	7.43	6.95	7.30	7.66	7.29			
	0014	8.2	7.6	7.84	7.81	7.62	8.17	7.45	7.62	7.62	7.52	7.9	7.63			
	1218	8.2	7.9	8.48	7.79	7.79	8.14	7.42	7.62	7.18	7.94	7.82	7.48			
	2370	8.3	7.3	7.44	7.52	7.72	7.74	7.43	7.48	7.27	7.75	7.61	7.00			
	2371	8.2	7.9	7.87	7.46	7.70	8.12	6.92	7.23	7.19	7.69	7.76	6.89			
	1219	7.6	7.7	7.81	8.05	7.66	7.59	7.14	7.38	7.20	7.66	7.6	7.10			
	4365	7.7	7.0	7.76	7.50	7.79	8.29	7.33	7.55	6.86	8.07	7.97	7.39			
	4366	7.5	7.8	8.05	8.68	7.62	8.32	7.56	7.37	7.14	8.54	7.89	7.15			
	4358	7.5	7.7	7.0	7.8	7.92	8.11	7.33	7.50	7.32	7.82	7.81	7.53			
DO	4367	6.4	6.9	7.7	6.5	6.8	7.5	6.8	6.7	7.2	5.3	6.4	7.1	6.0	5.0	4.0
	4359	6.2	6.9	8.0	6.8	--	--	--	6.2	7.0	6.2	7.5	7.7			
	0014	6.5	6.8	6.5	6.6	6.9	6.5	6.5	6.8	6.8	6.5	6.5	6.2			
	1218	6.3	6.4	6.8	6.8	7.5	7.7	6.4	6.5	7.3	6.3	6.2	6.2			
	2370	7.8	6.5	8.5	6.8	7.2	7.2	6.8	6.2	6.8	7.0	8.5	7.8			
	2371	7.5	5.9	6.5	6.4	7.0	6.6	6.5	6.0	6.3	6.5	8.0	6.1			
	1219	6.5	7.5	8.4	6.2	6.6	6.3	7.0	6.6	7.0	6.5	7.2	7.1			
	4365	6.8	8.4	6.2	5.6	6.1	6.4	6.7	6.4	6.8	6.0	5.9	5.5			
	4366	7.4	6.0	6.0	5.3	5.9	6.2	6.0	6.2	6.4	5.3	5.7	4.8			
	4358	6.0	6.6	4.8	5.8	5.0	4.8	5.5	6.5	6.0	6.5	7.5	6.8			
BOD	4367	1.4	2.0	1.8	1.9	2.2	1.5	1.0	2.2	2.2	2.1	1.4	2.2	2.0	3.0	3.0
	4359	2.0	1.3	1.5	1.3	--	--	--	1.4	1.8	1.9	1.7	1.5			
	0014	2.0	1.8	2.3	1.5	1.2	1.3	1.6	1.2	1.2	1.7	1.7	1.8			
	1218	1.3	1.8	1.4	1.2	1.1	1.2	1.8	1.4	2.0	1.8	1.4	1.2			
	2370	2.0	1.8	2.2	1.3	1.4	1.2	1.2	2.0	1.5	2.0	1.5	1.3			
	2371	2.5	2.3	1.8	2.0	1.8	2.0	1.6	2.6	2.2	2.2	1.8	2.3			
	1219	2.6	2.5	1.4	2.2	1.0	1.8	1.3	2.4	1.5	1.2	2.1	1.8			
	4365	2.2	2.2	2.0	2.2	1.6	1.6	1.0	2.0	1.8	1.5	2.1	2.3			
	4366	1.8	2.6	2.4	2.8	2.3	1.8	1.2	2.4	2.0	2.0	2.6	2.8			
	4358	0.9	1.7	2.8	2.6	2.8	2.6	1.1	2.2	1.5	2.0	2.0	1.8			

Fecal Coliform	4367	11	15	11	4	9	4	9	9	9	15	9	15	---	500	---
	4359	4	11	3	4	--	--	--	7	9	9	7	4			
	0014	7	9	7	4	<3	4	7	7	9	11	11	11			
	1218	11	11	4	4	4	3	11	9	15	15	9	9			
	2370	11	7	11	7	7	7	9	7	7	15	9	11			
	2371	15	9	15	11	11	11	15	21	15	21	21	15			
	1219	15	15	15	9	9	9	11	15	15	15	9	21			
	4365	15	7	11	9	11	15	15	15	15	11	21	21			
	4366	20	21	11	15	15	21	15	21	21	23	9	24			
	4358	11	11	9	7	7	9	9	7	7	11	11	15			
TDS	4367	212	508	232	320	408	192	172	212	128	240	168	228	500 - 2000		
	4359	86	98	74	74	--	--	--	136	116	68	104	94			
	0014	160	144	180	72	116	144	128	128	132	204	228	152			
	1218	184	168	180	78	120	152	112	118	160	222	204	168			
	2370	176	136	168	108	188	144	164	148	196	286	248	208			
	2371	188	186	148	136	212	162	220	164	224	300	280	240			
	1219	180	180	126	84	152	136	144	162	184	228	192	216			
	4365	13520	136	27140	32868	21312	13240	152	380	148	260	6408	7980			
	4366	19424	18104	35276	34840	29576	18460	340	980	196	2412	6540	15260			
4358	17692	26584	4212	31472	25752	10120	3744	744	232	292	836	1692				
Note:: All values are expressed in mg/L except pH & Total Coliform value. Total 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 .High TDS values at Narsapuram could be attributed to the intrusion of backwaters of Bay of Bengal.																

2. 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:

Parameters	Code	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1175	7.4	7.3	7.4	6.9	6.6	7.50	7.80	7.50	7.3	7.3	7.8	8.1	6.0 - 8.5	6.0 - 9.0	
	3083	7.3	7.5	7.7	7.1	6.7	7.10	7.60	7.50	7.5	7.4	7.7	7.6			
	4381	7.9	7.9	7.72	7.71	7.69	7.97	7.64	7.84	7.64	7.92	7.79	7.56			
	1786	7.8	7.8	7.82	7.29	7.81	7.97	7.94	7.96	7.84	7.87	8.08	7.59			
	1787	7.7	7.6	7.82	7.47	7.67	7.83	7.74	7.76	7.69	7.94	7.77	7.52			
	0025	7.8	7.2	7.80	7.71	7.74	7.92	7.82	8.43	7.51	7.74	8.1	7.92			
	4375	7.8	7.7	7.72	7.67	7.79	7.82	7.70	8.31	7.57	7.82	8.09	8.02			
	1782	7.8	8.0	7.96	7.93	7.41	7.68	7.42	7.67	7.45	7.64	7.82	7.31			

DO	1175	6.4	7.3	6.4	4.9	5.6	5.9	5.2	5.4	6.5	6.4	6.1	6.0	6.0	5.0	4.0
	3083	6.3	7.5	6.3	5.2	5.8	5.9	5.7	5.8	6.8	6.4	6.3	6.2			
	4381	7.5	7.9	7.4	7.2	6.8	7.3	7.3	7.1	7.2	7.4	7.3	7.4			
	1786	7.5	7.8	6.8	6.8	6.9	7.6	7.2	7.3	7.2	7.2	6.9	7.1			
	1787	7.4	7.6	7.3	7.1	6.9	7.3	7.1	7.2	7.1	7.4	7.1	7.3			
	0025	7.2	7.2	7.1	7.2	7.2	7.1	7.5	7.1	7.0	7.1	7.0	7.2			
	4375	7.2	7.7	7.2	7.1	7.2	7.1	7.4	7.2	7.1	7.2	7.1	7.2			
	1782	4.6	8.0	4.6	4.8	4.5	4.8	4.6	4.4	4.2	4.0	4.2	4.0			
BOD	1175	1.5	1.3	1.2	1.0	2.2	1.7	2.6	1.6	1.0	1.0	1.5	1.5	2.0	3.0	3.0
	3083	1.3	1.2	1.0	0.8	2.2	1.2	0.8	1.0	1.5	1.2	1.5	1.5			
	4381	1.6	1.8	1.8	0.8	2.4	2.0	1.2	1.4	1.8	2.0	2.2	2.6			
	1786	1.2	1.4	1.6	1.4	2.2	1.8	2.0	1.8	2.0	2.2	2.0	2.4			
	1787	1.0	1.2	1.0	0.8	1.2	1.4	1.2	1.0	0.8	1.0	1.4	2.2			
	0025	1.2	1.2	1.2	1.0	1.6	1.2	1.8	1.4	1.2	1.6	1.8	2.0			
	4375	1.0	1.2	1.0	0.8	1.6	1.4	1.2	1.0	0.8	1.0	1.2	2.2			
	1782	2.2	2.4	2.6	2.2	2.6	2.0	2.4	2.2	2.0	2.2	2.6	2.8			
Fecal Coliform	1175	100	100	100	100	100	100	100	100	100	100	63	81	—	500	—
	3083	<3	200	300	100	100	100	100	200	100	100	120	72			
	4381	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3			
	1786	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3			
	1787	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3			
	0025	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3			
	4375	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3			
	1782	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3			

TDS	1175	316	402	386	482	520	587	744	486	274	309	392	386	500 - 2000
	3083	318	326	356	340	364	368	467	468	348	321	406	378	
	4381	440	410	460	376	732	446	420	580	490	535	560	440	
	1786	320	490	510	464	620	446	420	390	418	508	870	406	
	1787	342	365	420	474	620	398	360	402	350	442	684	420	
	0025	265	340	390	407	550	425	468	350	348	440	684	400	
	4375	258	270	284	250	468	560	230	270	190	210	498	390	
	1782	22800	12720	22100	23300	19300	20600	18300	14270	13900	14300	15800	20850	
Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal coliform. Total 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. High TDS values at Hamsaladeevi could be attributed due to the intrusion of backwaters of Bay of Bengal.														

3. 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	U/S of Kurnool town B/C with domestic sewage & A/c of Rayalaseema alkalies industries at Gondiparla, Kurnool.
04	4389	D/S of Kurnool town A/C with domestic sewage at Gondiparla, Kurnool.

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

Parameters	Code	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1785	7.9	7.8	7.9	7.3	7.2	7.7	6.9	7.0	7.6	7.4	7.8	7.9	6.0 - 8.5	6.0 - 9.0	
	1174	7.7	7.4	7.8	7.4	7.3	7.6	7.8	7.5	7.9	7.7	7.6	8.2			
	4388	7.0	7.1	7.2	6.6	6.2	6.7	7.0	6.8	7.6	7.5	7.8	8.0			
	4389	7.3	7.1	7.6	7.0	7.2	7.8	7.6	7.5	7.6	7.5	7.9	8.0			
DO	1785	5.6	5.3	5.9	5.4	5.7	5.7	5.4	5.7	6.6	6.3	6.2	5.9	6.0	5.0	4.0
	1174	5.5	5.7	5.7	6.2	5.5	5.4	5.7	5.6	6.6	6.3	6.3	5.8			
	4388	5.4	5.6	5.7	5.1	5.4	5.5	5.2	5.1	6.4	6.2	6.0	5.7			
	4389	5.3	5.5	5.0	4.3	5.4	5.8	5.2	5.3	6.2	5.8	6.0	5.6			
BOD	1785	2.2	2.3	2.7	2.6	2.8	2.5	1.4	2.8	1.8	2.0	2.0	2.5	2.0	3.0	3.0
	1174	2.3	2.5	2.5	1.6	3.0	2.5	2.6	2.2	1.3	1.5	2.3	2.5			
	4388	2.0	1.9	2.5	3.0	3.0	2.7	1.0	2.2	1.7	2.3	1.5	2.5			
	4389	2.5	2.8	2.8	2.9	2.3	2.3	0.8	1.8	1.3	2.2	2.2	2.5			
Fecal Coliform	1785	100	400	300	200	200	100	100	300	100	200	110	94	---	500	---
	1174	200	300	200	100	200	200	100	200	100	200	95	110			
	4388	100	100	100	300	200	200	200	100	100	600	76	84			
	4389	200	300	200	300	100	100	100	100	200	800	170	180			
TDS	1785	1120	897	626	686	952	817	748	523	253	479	586	456	500 - 2000		
	1174	810	845	764	1084	1210	956	836	634	421	477	447	526			
	4388	944	1012	984	1786	2010	1769	1180	792	438	598	424	612			
	4389	756	745	603	1248	1328	1175	1086	587	438	424	433	581			

Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal coliform. Total 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 like D/S of Kurnool town. Hence, this location may be categorized as Class - C at these points.

4. River Nagavali:

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.

Month-wise data of water quality of river Nagavali, 2020

Parameters	Code	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	4351	7.5	7.8	7.76	8.25	8.0	8.3	7.59	7.51	7.45	7.87	8.2	7.50	6.0 – 8.5	6.0 – 9.0	
	1448	7.5	8.0	8.13	8.46	7.71	8.11	7.65	7.65	7.41	7.79	8.16	7.97			
	4346	7.2	7.8	Dried	8.38	7.86	8.25	7.68	7.50	7.69	7.66	7.42	8.04			
	4347	7.1	7.1	Dried	8.73	7.84	8.2	7.63	7.84	7.42	7.84	7.4	7.79			
DO	4351	8.0	6.9	6.7	6.5	6.0	6.5	7.6	8.0	6.5	5.6	6.2	6.7	6.0	5.0	4.0
	1448	6.8	5.9	6.5	6.7	5.9	5.9	5.8	6.2	7.3	5.0	8.0	7.3			
	4346	8.2	8.3	Dried	6.2	6.0	8.2	8.0	6.2	8.5	7.1	7.5	6.8			
	4347	5.5	7.9	Dried	6.0	5.8	8.0	7.8	5.3	6.5	6.3	7.0	6.3			

BOD	4351	2.8	1.0	1.4	1.4	1.5	1.0	1.4	2.5	1.8	2.1	1.4	1.7	2.0	3.0	3.0
	1448	2.7	2.7	2.5	2.2	1.4	1.4	1.7	1.7	1.8	2.2	1.2	1.8			
	4346	2.6	2.7	Dried	2.0	1.2	2.4	1.0	2.2	1.5	1.6	1.5	1.6			
	4347	4.5	2.9	Dried	2.8	2.3	2.8	2.0	2.4	1.7	2.3	1.7	2.2			
Fecal Coliform	4351	11	7	15	7	9	11	15	9	15	21	11	9	---	500	---
	1448	11	15	11	7	4	4	11	15	11	15	9	9			
	4346	9	21	Dried	15	7	7	11	7	9	11	7	15			
	4347	15	23	Dried	21	11	11	21	9	15	23	15	21			
TDS	4351	136	180	260	140	252	188	204	208	192	194	240	220	500 - 2000		
	1448	156	232	232	220	216	160	192	172	200	140	304	192			
	4346	332	312	Dried	224	240	208	196	240	264	180	248	204			
	4347	748	284	Dried	418	276	214	232	280	324	220	316	232			
Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal coliform. Total Coliform & Fecal coliform is expressed in MPN count / 100 ml.																
Remarks: BOD & Fecal coliform values found to within the standard limits stipulated for bathing at all the locations.																

5. 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	July	Aug	Sep	Oct	Nov	Dec	*Standard		
													Class A	Class B	Class C
pH	7.2	7.6	7.0	6.3	5.9	6.8	6.8	7.1	7.0	6.9	7.9	7.1	6.0 – 8.5		6.0 – 9.0
DO	5.3	5.2	4.9	4.7	5.2	5.1	5.1	5.4	6.3	6.2	6.1	5.6	6.0	5.0	4.0
BOD	2.3	2.5	2.4	1.2	2.8	2.0	1.2	2.3	2.5	2.5	1.7	2.0	2.0	3.0	3.0
Fecal Coliform	200	400	100	200	300	300	200	200	200	300	180	250	—	500	—
TDS	461	656	512	624	728	834	752	664	384	296	365	568	500 - 2000		
Note: All values are expressed in mg/L except pH, Total Coliform & Fecal Coliform value. Total 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.															

CPCB Water Quality Criteria for Designated Best Use

Designated-best- use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection.	A	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 50 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 6 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 2mg/l or less.
Outdoor bathing (Organized)	B	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 500 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 5 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less.
Drinking Water Source after conventional treatment and disinfection.	C	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 5000 or less. • pH between 6 to 9 • Dissolved oxygen 4 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Propagation of Wild life and Fisheries.	D	<ul style="list-style-type: none"> • pH between 6.5 to 8.5 • Dissolved oxygen 4 mg/l or more. • Free Ammonia (as N) 1.2 mg/l or less • pH 9 between 6.0 to 8.5.
Irrigation, Industrial Cooling, Controlled Waste disposal.	E	<ul style="list-style-type: none"> • Electrical Conductivity at 25°C micro mhos/cm Max. 2250. • Sodium Absorption ratio Max. 26 • Boron Max.2 mg/l.
	Below -E	Not Meeting A, B, C, D & E Criteria.

GOVERNMENT OF ANDHRA PRADESH
MUNICIPAL ADMINISTRATION & URBAN DEVELOPMENT (UBS) DEPARTMENT

Letter No. 1282446/UBS/2020

Dated: 18-12-2020

From
The Secretary to Government,
MA & UD Department,
A.P. Secretariat,
Velagapudi,
Guntur District.

To
The Secretary,
Ministry of Jal Sakti,
MoHUA.,
Government of India,
New Delhi.(w.e.)

Sir,

Sub:- MA & UD Department - National Green Tribunal – Orders of the National Green Tribunal Principal Bench, New Delhi in OA No.673/2018 - Monthly Progress Report for the month of November, 2020 - furnished – Regarding.

Ref:- Orders of the National Green Tribunal Principal Bench, New Delhi in OA No.673/2018, dt.24.09.2020.

** * **

In compliance to the directions of the Hon'ble National Green Tribunal Principal Bench, New Delhi in the reference cited, I am herewith enclose the Monthly Progress Report in the prescribed format for the month of November, 2020 for taking further necessary action.

Yours faithfully,

G. Sudha Rana
For SECRETARY TO GOVERNMENT



National Mission for Clean Ganga
Format for submission of Monthly Progress Report for
the month of November, 2020 in the NGT Matter OA No.
673 of 2018 (in compliance to NGT order dated 24.09.2020)

For the State of Andhra Pradesh

Overall status of the State:

- I. Total Population: Urban Population: 1.48 Cr
- II. Estimated Sewage Generation (MLD): 1463.20 MLD

III. Details of Sewage Treatment Plant:

- Existing no. of STPs and Treatment Capacity (in MLD): 515.85 MLD (43No's)
- Capacity Utilization of existing STPs : 326.97 MLD
- Present Gap in Treatment Capacity in MLD : 947.35 MLD
- Capacity of under construction STP's : 458.90 MLD
- No. of Operational STPs : 43 Nos
- No. of Complying STPs : 43 Nos
- No. of Non-complying STPs : Nil

III (A): Details of Each Existing STP in the State

Sl. No	City / Town	Location of STP	Date of Commissioning	Existing STP Capacity (in MLD)	Capacity Being Utilized (in MLD)	Operational Status of STP	Compliance Status of STP
1	GVMC	Old town	May'2019	38.00	35.23	Operational	Comply
2		Appughar	26.09.2010	25.00	21.43	Operational	Comply
3		Mudasarlova	April'2008	13.00	9.65	Operational	Comply
4		Narava	Aug-01	54.00	22.36	Operational	Comply
5		Anakapalle	April'2018	15.00	7.55	Operational	Comply
6		Madinabagh			2.00	1.02	Operational

7		Yathapalem Colonies	April'2008	2.50	1.01	Operational	Comply
8		Gajuwaka	April'2008	0.50	0.23	Operational	Comply
9		Karnavanipalem	Dec' 2019	5.00	-	Operational	Comply
10		Mantripalem	April' 2008	1.00	0.31	Operational	Comply
11		Aganampudi	Dec' 2015	6.00	-	Operational	Comply
12		Rathi Cheruvu	Sep' 2019	2.00	0.65	Operational	Comply
13		Kommadi / Madhurawada	Aug' 2018	4.00	2.10	Operational	Comply
14		Bakkannapalem	Aug' 2011	1.00	0.36	Operational	Comply
15		Marikavalasa	Dec' 2012	2.00	1.15	Operational	Comply
16		Vambay Colony	Aug' 2011	3.00	1.38	Operational	Comply
17		YSR Nagar	Aug' 2011	2.00	1.30	Operational	Comply
18		Boyapalem	Aug' 2011	1.00	0.39	Operational	Comply
19	Rajamahendravaram	Hukumpeta	03.01.2009	30.00	30.00	Operational	Comply
20	Vijayawada	Ajith Singh Nagar-1	31.05.2011	40.00	39.52	Operational	Comply
21		Ajith Singh Nagar-2	31.05.2012	20.00	20.00	Operational	Comply
22		Ramalingeswar Nagar-1	30.06.2012	20.00	19.74	Operational	Comply
23		Ramalingeswar Nagar-2	20.10.2006	10.00	9.80	Operational	Comply
24		Autonagar Nagar-1	31.03.2005	10.00	9.70	Operational	Comply
25	Vijayawada	Autonagar Nagar-2	31.12.2018	10.00	9.80	Operational	Comply
26		Jakkampudi	31.07.2017	20.00	13.50	Operational	Comply
27	Tirupathi	Thukivakam		50.00	33.00	Operational	Comply

28	Kadapa	Nanapally	02.08.2012	20.00	10.00	Partly Operational	Comply
29	Pulivendula	Rotarypuram	25.01.2009	6.50	2.50	Partly Operational	Comply
30	Tadipatri	Gannevaripalle	10.10.2010	3.50	6.50	Operational	Comply
31		Gannevaripalle	10.10.2010	8.00		Operational	Comply
32	Puttaparthi	1.Sai Nagar	20.7.2001	0.50	0.50	Operational	Comply
33		2. Gokulam	20.7.2001	0.50		Under Rehabilitation	Comply
34		3. Prasanthi Gram	20.7.2001	0.50		Under Rehabilitation	Comply
35	Narsaraopeta	CPT Road	02.02.2018	15.55	8.50	Operational	Comply
36	Nellore	Janardhan Reddy Colony		55.00	5.00	Under Construction	Comply
37		Allepuram		11.00		Under Construction	Comply
38		Drivers Colony		5.00		Under Construction	Comply
39	Kurnool	jammichettu	12.03.2019	0.80	0.80	Operational	Comply
40		Sankal Bagh	12.03.2019	0.80	0.80	Operational	Comply
41		Tungabhadra PumpHouse	10.03.2018	0.80	0.80	Operational	Comply
42	Tadepalli	Mahanadu-1	10.12.2018	0.20	0.20	Operational	Comply
43		Mahanadu-2	15.12.2018	0.20	0.20		Comply
TOTAL				515.85	326.97		

III (B): Details of Under Construction STPs in the State

S.No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or No.of House sewer connections	Completion Timeline
1	Srikakulam	10.00	45%	Nil	December2021
2	Vizianagaram	5.00	53%	Nil	March2021
3	GVMC	2.00	50%	1200	March2021
4	GVMC	46.00	20%	27841	December2021
5	Kakinada	5.00	24%	487	December2021
6	Rajamahendravaram	5.00	5%	Nil	December2021
7	Bhimavaram	5.00	22%	Nil	December2021
8	Tadepalligudem	5.00	0%	Nil	December2021
9	Eluru	5.00	29%	2025	December2021
10	Machilipatnam	5.00	45%	Nil	December2021
11	Gudivada	5.00	32%	Nil	December2021
12	Vijayawada	20.00	83%	11788	December2021
13	Guntur	123.00	50%	24000	Jun2022
14	Tenali	10.00	25%	Nil	December2021
15	Tenali	2.00	5%	Nil	December2021
16	Ongole	15.00	40%	Nil	December2021
17	Chilakaluripeta	5.00	20%	Nil	December2021
18	Kavali	15.00	71%	Nil	December2021
19	Nellore	34.00	81%	15000	December2021
20	Tirupati	0.40	25%	Nil	March2021
21	Tirupati	25.00	25%	14243	December2021
22	Srikalahasti	7.00	8%	Nil	December2021
23	Madanapalle	5.00	12%	Nil	December2021
24	Kadapa	20.00	0%	Nil	December2021
25	Anantapuramu	10.00	0%	Nil	December2021
26	Dharmavaram	15.00	0%	Nil	December2021
27	Guntakal	8.00	0%	Nil	December2021
28	Kurnool	2.00	20%	Nil	December2021
29	Kurnool	10.00	5%	Nil	December2021
30	Nandyal	10.00	5%	Nil	December2021
31	Yemmiganur	19.50	96%	3928	December2021
32	Adoni	5.00	10%	Nil	December2021
	Total	458.90		100512	

III (C): Details of Proposed STPs in the State

S.No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1	Kanigiri	6.00	Under Tendering	Two years after date of award of the work
2	Sullurpet	9.00		
3	Allagadda	5.00		
4	Nandikotkur	5.00		
5	Madakasira	5.00		
6	Pulivendula	15.00		
7	Rayachoti	22.40		
	Total	67.40		

III D) STATUS OF STPs UNDER RIVER STRETCHES:

S. No	Name of River Stretch	Name of the ULB	STP Capacity	Status of Ongoing Works	Status of DPRs
PRIORITY-IV RIVERS					
1	Tungabhadra	Kurnool	10 MLD	5%	DPR prepared for Rs.304.00 Crores proposed additional STPs of 78 MLD to satisfy the demand for the year 2035 and submitted to the Govt. for according administrative sanction.
			2 MLD	20%	

2	Kundu	Nandyal	10 MLD	5%	Comprehensive DPR on UGD scheme is prepared for Rs.85.00 Cr with STPs capacity of 26 (21 + 5) MLD to cater the needs of 2035 year. DPR submitted to the Govt. for according Administrative Sanction.
PRIORITY-V RIVERS					
1.	Nagavali	Srikakulam	10 MLD	45%	Comprehensive proposal for providing UGD scheme for 2035 needs is prepared for an amount of Rs.190.36 Cr with an additional STP capacity of 12 MLD.
2.	Godavari	Rajamahendravaram	5 MLD	5%	DPR on Comprehensive UGD scheme prepared with additional STP's of capacity 72.37 MLD for an amount of Rs.404.00 Cr. RMC has attended the remarks and resubmitted the proposals. Now it is proposed to take up the works with an estimated cost of Rs.107.00 crores in the first year.
3.	Krishna	Vijayawada	20 MLD	83%	DPR is prepared for Rs.246.38 Cr to for providing Comprehensive UGD scheme to meet the 2035 demand including up-gradation of 2 STPs of 30.00 MLD capacity.

IV. Details of Industrial Pollution:

- No. of industries in the State: **9941 No's**
- No. of water polluting industries in the State: **1069 No's**
- Quantity of effluent generated from the industries in MLD: **4494.33 MLD**

The breaks up details are mentioned below:

- ✓ *Total Process waste water: 364.97 MLD*
- ✓ *Total cooling tower/Boiler blow down: 254.118 MLD*
- ✓ *Total Once through Cooling water: 3826.13 MLD*
- ✓ *Total Domestic discharge: 49.54 MLD*
- ✓ **From the total industrial generation, major portion is once through cooling water (85%) and the discharge temperatures are maintained not more than 5⁰C temperature of water temperature.**
- ✓ From the Cooling tower/Boiler blow down (5.6%).
- ✓ The remaining 9.4% is generated from Process waste water & Domestic Discharges.
- Quantity of Hazardous Sludge generated from the Industries in TPD: **1,58,364.459 TPA**
- Number of industrial units having ETPs: **1069 No's**
- Number of industrial units connected to CETP: **330 No's**
- Number and total capacity of ETPs (details of existing/ under construction / proposed)
 - Existing: **1069 no's ETPs**
- Compliance status of the ETPs: APPCB is regularly monitoring the compliance status of ETPs
- Number and total capacity of CETPs (details of existing/ under construction / proposed)
 - Existing: 7 No's with total capacity of **31 MLD**
 - Under construction: **Nil**
 - Proposed: **Nil**

Status of compliance and operation of the CETPs

S.No	Name and Address of the CETP & contact person	Design capacity	Current Operating capacity	Type and No. of member units
1.	Brandix India Apparel City Private Limited, APSEZ, Atchutapuram Pudimadaka Road, Visakhapatnam.	20 MLD	4 MLD	Textile park- 14 units
2.	Ramky Pharma City (India) Ltd, JN Pharma City, Parawada Mandal, Visakhapatnam.	5.0 MLD	4.8 MLD	Pharmaceutical & Bulk drugs- 92 units
3.	Kondapally Envirotech Pvt. Ltd., (KEPL), IDA, Kondapalli(V), Ibrahimpatnam (M), Krishna District.	0.2 MLD	0.15 MLD	Pharmaceutical & Bulk drugs- 13 units
4.	Vijayawada Auto Cluster Development Company, Industrial Estate, Auto Nagar, Vijayawada.	0.2 MLD	0.2 MLD	Food beverages, Herbal pharma, Oil solvents & lubricants - 38 units
5.	Machilipatnam Imitation Jewellery Park Pvt. Ltd., Jewellery Park, Pothepalli, Machilipatnam.	0.07 MLD	0.002 MLD	Electro Plating - 48 Units
6.	Nagari Dyeing Owners Association, Chinthalapatteda (V), Nagari (M), Chittoor District.	4 MLD	0.8 MLD	Manual Dyeing units - 105 units
7.	Atchuthapuram Effluent Treatment Plant, Atchutapuram Visakhapatnam.	1.5 MLD	Under Trial Runs	Pharmaceutical & Bulk drugs- 20 units

V. Solid Waste Management:

- Total number of Urban Local Bodies: **120** and their Population: **1.48** Crore
- Current Municipal Solid Waste Generation: **6850** TPD.for 120 ULBs
(10 Newly Constituted ULBs – These ULBs have not yet developed urban Dynamics)
- 2 Waste to Energy Projects covering 13 ULBs are in progress with an installed capacity of 1500 TPD (30 MW),
- 29 wet waste projects covering 32 ULBs treating 1200 TPD with an installed capacity of 1500 TPD are existing.

- 23 wet waste projects covering 24 ULBs are in progress with an installed capacity of 400 TPD,
- 54 Wet waste projects (44 compost and 10 Biomethanation) covering 54 ULBs are proposed and RFP process is in progress and Feasibility study of 2 Waste to Energy projects is under progress
- 76 Material Recovery facilities covering 76 ULBs treating 810 TPD with an installed capacity of 1000 TPD Existing.
- 38 Material Recovery facilities covering 38 ULBs are in progress with an installed capacity of 450 TPD.
- 3 Construction and Demolition waste processing plants in Greater Visakhapatnam Municipal Corporation, Vijayawada Municipal Corporation and Tirupati Municipal Corporation treating 100 TPD with an installed capacity of 200 TPD are existing.
- The Source Segregation in the State is 81 % and capacity utilization of the treatment units is the same percentage, Ward Secretariats and volunteer system established and unique in the State are ensuring 99 % door to door collection.
- Total no. of wards: 3634. No. of wards having door to door collection service: 3634. No. of wards practicing segregation at source: 2944
- 114 Dumpsites with an area of 1000 acres are existing in the state. Out of which remediation of 4 dumpsites in 4 ULBs (GVMC, VMC, TMC and Tanuku) is under progress
- No Dumpsites of legacy waste are within 1km buffer of both side of the rivers in the State.

Status of ULB wise Management of Solid Waste

ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW Facilities	InProgress MSW Facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
Addanki	20	3	1	1	90%	
Adoni	81	55	2		85%	
Allagadda	20	13	2		85%	

Amalapuram	26	4	1	1	90%		
Amudalavala sa	19	10	2		85%		
Anantapur	131	42	1		90%	1 WWTP	Nov-21
Atmakur K	22	7	1	1	85%		
Atmakur N	15	2	1		90%	1 WWTP	Nov-21
Badvel	35	6	Decentralized	1		1 WWTP	Nov-21
Bapatla	34	5	1	1	90%		
Bhimavaram	69	2	Decentralized	1		1 WWTP	Nov-21
Bobbili	29	15	2		85%		
Chilakaluripe t	49	3	Decentralized	1		1 WWTP	Nov-21
Chimakurthy	15	2	1	1	90%		
Chirala	42	21	2		85%		
Chittoor	92	15	1		90%	1 WWTP	Nov-21
Dharmavara m	62	2	Decentralized	1		1 WWTP	Nov-21
Dhone	29	9	1		90%	1 WWTP	Nov-21
Eluru	106	31	1		90%	1 WWTP	Nov-21
Giddalur	19	9	2		85%		
Gollaprolu	12	1	Decentralized	1		1 WWTP	Nov-21
Gooty	24	4	1		90%	1 WWTP	Nov-21
Gudivada	58	19	1	1	90%		
Gudur K	11	1	Decentralized	1		1 WWTP	Nov-21
Gudur N	36	6	Decentralized	1		1 WWTP	Nov-21
Guntakal	62	20	1		90%	1 WWTP	Nov-21
Guntur	363	24	1			1 WWTP	Nov-21
GVMC	918	510	2		85%		
Hindupur	74	12	1	1	90%		
Ichchapuram	18	9	2		85%		
Jaggaiahpet	26	4	Decentralized	2			
Jammalamad ugu	22	11	2		80%		

Jangareddy Gudem	26	4	1		90%	1 WWTP	Nov-21
Kadapa	167	55	1		90%	1 WWTP	Nov-21
Kadiri	43	14	1	1	90%		
Kakinada	159	39	1		90%	1 WWTP	Nov-21
Kalyandurgam	21	3	1	1	90%		
Kandukur	28	4	1	1	90%		
Kanigiri	22	11	2		85%		
Kavali	51	8	1		90%	1 WWTP	Nov-21
Kovvur	19	3	1		90%	1 WWTP	Nov-21
Kurnool	224	36	Decentralized	1		1 WWTP	Nov-21
Macherla	28	1	Decentralized	2			
Machilipatnam	89	14	Decentralized	2			
Madakasira	10	2	1	1	80%		
Madanpalle	67	24	2		80%		
Mandapeta	26	12	1		90%	1 WWTP	Nov-21
Mangalagiri	36	6	1		90%	1 WWTP	Nov-21
Markapur	35	12	1	1	80%		
Mummidivaram	12	2	1	1	90%		
Mydukur	22	4	Decentralized	1		1 WWTP	Nov-21
Nagari	30	2	Decentralized	1		1 WWTP	Nov-21
Naidupet	22	4	1		90%	1 WWTP	Nov-21
Nandigama	22	4	Decentralized	2			
Nandikotkur	23	7	1		90%	1 WWTP	Nov-21
Nandyal	98	31	1		90%	1 WWTP	Nov-21
Narsapuram	29	5	1		90%	1 WWTP	Nov-21
Narsaraopet	57	30	1		90%	Cluster - Pidugurula	
Narsipatnam	30	15	2		85%		

Nellimarla	12	2	1		90%	1 WWTP	Nov-21
Nellore	293	45	Decentralized	1		1 WWTP	Nov-21
Nidadavole	21	3	1		90%	1 WWTP	Nov-21
Nuzivid	29	10	1	1	80%		
Ongole	123	63	1	1	90%		
Palakollu	30	2	Decentralized	1		1 WWTP	Nov-21
Palakonda	15	5	1	1	90%		
Palamaneru	25	9	1	1	80%		
Palasa kasibugga	28	10	1	1	80%		
Pamidi	13	2	1		90%	1 WWTP	Nov-21
Parvathipuram	26	1	Decentralized	2			
Pedana	15	1	Decentralized	2			
Peddapuram	24	4	1		90%	1 WWTP	Nov-21
Piduguralla	31	16	2		85%		
Pithapuram	25	1	Decentralized	1		1 WWTP	Nov-21
Ponnur	29	5	1		90%	1 WWTP	Nov-21
Proddutur	79	27	1		90%	1 WWTP	Nov-21
Pulivendula	32	22	2		85%		
Punganur	27	14	2		85%		
Puttaparty	15	8	2		85%		
Puttur	26	2	Decentralized	1		1 WWTP	Nov-21
Rajahmundry	168	76	1		90%	1 WWTP	Nov-21
Rajam	21	7	1	1	80%		
Rajampeta	23	4	Decentralized	1		1 WWTP	Nov-21
Ramachandrapuram	21	3	1		90%	1 WWTP	Nov-21
Rayachoti	44	14	1		90%	1 WWTP	Nov-21
Rayadurgam	30	16	2		85%		
Repalle	25	1	Decentralized	2			
Salur	24	12	2		85%		
Samalkota	28	1	Decentralized	1		1 WWTP	Nov-21

Sattenpalle	28	14	1		90%	Cluster - Pidugura la	
Srikakulam	65	22	1		40%	1 WWTP	Nov-21
SriKalahasti	39	6	1		90%	1 WWTP	Nov-21
Sullurpet	22	11	2		85%		
Tadepalle	34	12	1		90%	1 WWTP	Nov-21
Tadepalligudem	51	2	1			1 WWTP	Nov-21
Tadipatri	53	36	2		90%		
Tanuku	44	7	1		90%	1 WWTP	Nov-21
Tenali	80	41	1		90%	1 WWTP	Nov-21
Thiruvuru	17	3	2		85%		
Tirupati	187	138	2		90%		
Tuni	26	7	1	1	90%		
Venkatagiri	25	2	Decentralized	1		1 WWTP	Nov-21
Vijayawada	507	374	2		85%		
Vinukonda	30	2	Decentralized	2			
Vizianagaram	119	40	1		90%	1 WWTP	
Vuyyuru	18	1	Decentralized	2			
Yeleswaram	16	3	1		90%	1 WWTP	Nov-21
Yellamanchali	23	8	1	1	80%		
Yemmiganur	46	2	Decentralized	1		Cluster- Adoni	
Yerraguntla	16	3	Decentralized	1		1 WWTP	Nov-21
Grand Total	6440	2344	105	59		54	

VI. Bio-medical Waste Management:

- Total Bio-medical generation: 15.0 Ton/ day
- No. of Hospitals and Health Care Facilities: 10,225 Nos.

Status of Treatment Facility/ CBMWTF	:	Presently, there are 12 Nos. of Common Bio-medical Waste Treatment Facilities (CBMWTFs) covering total 13 Districts in Andhra Pradesh for treatment and disposal of bio-medical waste
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VII. Hazardous Waste Management:

- Total Hazardous Waste generation: 621337 TPA
- No. of Industries generating Hazardous waste: 2648 Nos.
- Quantity of Hazardous Sludge generated from the Industries in TPD:
1,58,364.459 TPA
- Treatment Capacity of all TSDFs:

Avg. Quantity of Hazardous waste reaching the TSDFs and Treated:

In Andhra Pradesh about 6,21,337 TPA (100%) of hazardous waste is generated. Out which

- Utilizable waste is 342054.1586 TPA (55.05%) (suitable to use as raw material or as alternative fuel viz. Co-processing in Cement Plants so as to conserve the resources),
- Recyclable waste is 116246.344 TPA (18.71%) (suitable for recycling /recovery of material viz. oil reclamation units, lead and zinc recovery units),
- Incinerable waste is 4287.0879 (0.69%) (not suitable for any recycling / reuse and having high calorific value i.e. > 2500 K cal/kg) and
- Land fillable waste is 1,58,364.459 TPA (25.49%) (not suitable for any recycling / reuse and having low calorific value i.e. < 2500 K cal/kg) is reaching and treated at the TSDFs in Visakhapatnam and Nellore.

• **Details of on-going or proposed TSDF :**

Two TSDF are existing in the State of Andhra Pradesh

- ✓ Ms Ramky Pharmacy India Pvt Ltd, Parwada, Visakhapatnam.
- ✓ Ms Coastal Waste Management Project Unit-2 , a division of Mumbai Waste Management Limited, S.P.S.R. Nellore District

VIII. Plastic Waste Management:

Total plastic waste generation	46,222 TPA (As per Annual Report for the F.Y. 2019-20).
Treatment / Measures adopted for reduction or management of plastic waste	<ul style="list-style-type: none">• The recyclable plastic waste generated is being sent to recycling units and the non-recyclable plastic waste is being sent to cement plants and utilizing for road construction in same ULBs. 14 Nos of recyclers registered with APPCB. Total recycling capacity is 17116 TPA.

	<ul style="list-style-type: none"> • 28 ULBs tied up with nearby Cement Plants for co-incineration of non- recyclable plastic waste and 5123 MTs of Non-recyclable plastic waste was sent to cement plants for the F.Y 2019-20. • The MA&UD and PR&RD Dept., informed that they have been conducting strict vigilance and surprise visits on those who store or use or sell or dispose plastic with less than 50 microns' thickness, for which 519 Task force teams were constituted for inspections and raids to control plastic sale and usage of less than 50 microns' thickness carry bags / films in the ULBs of A.P. About 239 tons of plastic carry bags were seized and Rs. 169 lakhs towards fine was collected.
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IX. Details of Alternate Treatment Technology being adopted by the State/UT

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

A total of 32 No's of outfall points of the major disposal drains have been identified which are contributing to river pollution. All the above 32 No's of out fall points are provided with meshes/ screens to prevent solid waste from falling into the rivers

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

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

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

(Details are enclosed in the Annexure)

Latest water quality of polluted river, its tributaries, drains with flow details:

- APPCB has been monitoring the 5 polluted river stretches at 27 locations on monthly basis and the data is being uploaded in RRC Website <https://rrc.ap.gov.in/Views/Monitoring.aspx> every month. The monitoring of water quality data for the month of November 2020 is enclosed.
- As per the analysis of samples collected at 27 locations in the month of November 2020 the B.O.D value is less than 3.0 mg/lit.

- XIV.** Ground water regulation:
- XV.** Good irrigation practices being adopted by the State:
- XVI.** Rain Water Harvesting:
- XVII.** Demarcation of Floodplain and removal of illegal encroachments:
- XVIII.** Maintaining minimum e-flow of river:
- XIX.** Plantation activities along the rivers:
- XX.** Development of biodiversity park:
- XXI.** Reuse of Treated Water:
- XXII.** Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:
- XXIII.** Status of Preparation of Action Plan by the 13 Coastal States:
- XXIV.** Regulation of Mining Activities in the State/UT:
- XXV.** Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring.

ENCLOSURES

Water Quality Status of Polluted River Stretches in Andhra Pradesh - 2020

I. 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	Jul	Aug	Sep	Oct	Nov	Standard		
													Class A	Class B	Class C
pH	4367	8.5	7.9	8.72	8.68	8.44	8.54	7.2	7.4	7.3	7.79	7.99	6.0 - 8.5	6.0 - 9.0	
	4359	7.9	7.8	7.49	7.69	--	--	--	7.4	7	7.3	7.66			
	14	8.2	7.6	7.84	7.81	7.62	8.17	7.45	7.6	7.6	7.52	7.9			
	1218	8.2	7.9	8.48	7.79	7.79	8.14	7.42	7.6	7.2	7.94	7.82			
	2370	8.3	7.3	7.44	7.52	7.72	7.74	7.43	7.5	7.3	7.75	7.61			
	2371	8.2	7.9	7.87	7.46	7.7	8.12	6.92	7.2	7.2	7.69	7.76			
	1219	7.6	7.7	7.81	8.05	7.66	7.59	7.14	7.4	7.2	7.66	7.6			
	4365	7.7	7	7.76	7.5	7.79	8.29	7.33	7.6	6.9	8.07	7.97			
	4366	7.5	7.8	8.05	8.68	7.62	8.32	7.56	7.4	7.1	8.54	7.89			
	4358	7.5	7.7	7	7.8	7.92	8.11	7.33	7.5	7.3	7.82	7.81			
DO	4367	6.4	6.9	7.7	6.5	6.8	7.5	6.8	6.7	7.2	5.3	6.4	6	5	4
	4359	6.2	6.9	8	6.8	--	--	--	6.2	7	6.2	7.5			
	14	6.5	6.8	6.5	6.6	6.9	6.5	6.5	6.8	6.8	6.5	6.5			
	1218	6.3	6.4	6.8	6.8	7.5	7.7	6.4	6.5	7.3	6.3	6.2			
	2370	7.8	6.5	8.5	6.8	7.2	7.2	6.8	6.2	6.8	7	8.5			
	2371	7.5	5.9	6.5	6.4	7	6.6	6.5	6	6.3	6.5	8			
	1219	6.5	7.5	8.4	6.2	6.6	6.3	7	6.6	7	6.5	7.2			
	4365	6.8	8.4	6.2	5.6	6.1	6.4	6.7	6.4	6.8	6	5.9			
	4366	7.4	6	6	5.3	5.9	6.2	6	6.2	6.4	5.3	5.7			
	4358	6	6.6	4.8	5.8	5	4.8	5.5	6.5	6	6.5	7.5			

Parameter	Code	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Standard		
													Class A	Class B	Class C
BOD	4367	1.4	2	1.8	1.9	2.2	1.5	1	2.2	2.2	2.1	1.4	2	3	3
	4359	2	1.3	1.5	1.3	--	--	--	1.4	1.8	1.9	1.7			
	14	2	1.8	2.3	1.5	1.2	1.3	1.6	1.2	1.2	1.7	1.7			
	1218	1.3	1.8	1.4	1.2	1.1	1.2	1.8	1.4	2	1.8	1.4			
	2370	2	1.8	2.2	1.3	1.4	1.2	1.2	2	1.5	2	1.5			
	2371	2.5	2.3	1.8	2	1.8	2	1.6	2.6	2.2	2.2	1.8			
	1219	2.6	2.5	1.4	2.2	1	1.8	1.3	2.4	1.5	1.2	2.1			
	4365	2.2	2.2	2	2.2	1.6	1.6	1	2	1.8	1.5	2.1			
	4366	1.8	2.6	2.4	2.8	2.3	1.8	1.2	2.4	2	2	2.6			
	4358	0.9	1.7	2.8	2.6	2.8	2.6	1.1	2.2	1.5	2	2			
Fecal Coliform	4367	11	15	11	4	9	4	9	9	9	15	9	---	500	---
	4359	4	11	3	4	--	--	--	7	9	9	7			
	14	7	9	7	4	<3	4	7	7	9	11	11			
	1218	11	11	4	4	4	3	11	9	15	15	9			
	2370	11	7	11	7	7	7	9	7	7	15	9			
	2371	15	9	15	11	11	11	15	21	15	21	21			
	1219	15	15	15	9	9	9	11	15	15	15	9			
	4365	15	7	11	9	11	15	15	15	15	11	21			
	4366	20	21	11	15	15	21	15	21	21	23	9			
	4358	11	11	9	7	7	9	9	7	7	11	11			

Parameter	Code	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Standard			
													Class A	Class B	Class C	
TDS	4367	212	508	232	320	408	192	172	212	128	240	168	500 - 2000			
	4359	86	98	74	74	--	--	--	136	116	68	104				
	14	160	144	180	72	116	144	128	128	132	204	228				
	1218	184	168	180	78	120	152	112	118	160	222	204				
	2370	176	136	168	108	188	144	164	148	196	286	248				
	2371	188	186	148	136	212	162	220	164	224	300	280				
	1219	180	180	126	84	152	136	144	162	184	228	192				
	4365	13520	136	27140	32868	21312	13240	152	380	148	260	6408				
	4366	19424	18104	35276	34840	29576	18460	340	980	196	2412	6540				
	4358	17692	26584	4212	31472	25752	10120	3744	744	232	292	836				

Note:: All values are expressed in mg/L except pH & Total Coliform value. Total 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. High TDS values at Narsapuram could be attributed to the intrusion of backwaters of Bay of Bengal.

2. 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:

Parameters	Code	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	*Standard		
													Class A	Class B	Class C
pH	1175	7.4	7.3	7.4	6.9	6.6	7.5	7.8	7.5	7.3	7.3	7.8	6.0 - 8.5	6.0 - 9.0	
	3083	7.3	7.5	7.7	7.1	6.7	7.1	7.6	7.5	7.5	7.4	7.7			
	4381	7.9	7.9	7.72	7.71	7.69	7.97	7.64	7.84	7.64	7.92	7.79			
	1786	7.8	7.8	7.82	7.29	7.81	7.97	7.94	7.96	7.84	7.87	8.08			
	1787	7.7	7.6	7.82	7.47	7.67	7.83	7.74	7.76	7.69	7.94	7.77			
	25	7.8	7.2	7.8	7.71	7.74	7.92	7.82	8.43	7.51	7.74	8.1			
	4375	7.8	7.7	7.72	7.67	7.79	7.82	7.7	8.31	7.57	7.82	8.09			
	1782	7.8	8	7.96	7.93	7.41	7.68	7.42	7.67	7.45	7.64	7.82			
DO	1175	6.4	7.3	6.4	4.9	5.6	5.9	5.2	5.4	6.5	6.4	6.1	6	5	4
	3083	6.3	7.5	6.3	5.2	5.8	5.9	5.7	5.8	6.8	6.4	6.3			
	4381	7.5	7.9	7.4	7.2	6.8	7.3	7.3	7.1	7.2	7.4	7.3			
	1786	7.5	7.8	6.8	6.8	6.9	7.6	7.2	7.3	7.2	7.2	6.9			
	1787	7.4	7.6	7.3	7.1	6.9	7.3	7.1	7.2	7.1	7.4	7.1			
	25	7.2	7.2	7.1	7.2	7.2	7.1	7.5	7.1	7	7.1	7			
	4375	7.2	7.7	7.2	7.1	7.2	7.1	7.4	7.2	7.1	7.2	7.1			
	1782	4.6	8	4.6	4.8	4.5	4.8	4.6	4.4	4.2	4	4.2			
BOD	1175	1.5	1.3	1.2	1	2.2	1.7	2.6	1.6	1	1	1.5	2	3	3
	3083	1.3	1.2	1	0.8	2.2	1.2	0.8	1	1.5	1.2	1.5			
	4381	1.6	1.8	1.8	0.8	2.4	2	1.2	1.4	1.8	2	2.2			
	1786	1.2	1.4	1.6	1.4	2.2	1.8	2	1.8	2	2.2	2			
	1787	1	1.2	1	0.8	1.2	1.4	1.2	1	0.8	1	1.4			
	25	1.2	1.2	1.2	1	1.6	1.2	1.8	1.4	1.2	1.6	1.8			
	4375	1	1.2	1	0.8	1.6	1.4	1.2	1	0.8	1	1.2			
	1782	2.2	2.4	2.6	2.2	2.6	2	2.4	2.2	2	2.2	2.6			

Parameters	Code	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	*Standard		
													Class A	Class B	Class C
Fecal Coliform	1175	100	100	100	100	100	100	100	100	100	100	63	---	500	---
	3083	<3	200	300	100	100	100	100	200	100	100	120			
	4381	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3			
	1786	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3			
	1787	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3			
	25	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3			
	4375	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3			
	1782	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3			
TDS	1175	316	402	386	482	520	587	744	486	274	309	392	500 - 2000		
	3083	318	326	356	340	364	368	467	468	348	321	406			
	4381	440	410	460	376	732	446	420	580	490	535	560			
	1786	320	490	510	464	620	446	420	390	418	508	870			
	1787	342	365	420	474	620	398	360	402	350	442	684			
	25	265	340	390	407	550	425	468	350	348	440	684			
	4375	258	270	284	250	468	560	230	270	190	210	498			
	1782	22800	12720	22100	23300	19300	20600	18300	14270	13900	14300	15800			

Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal coliform. Total 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. High TDS values at Hamsaladeevi could be attributed due to the intrusion of backwaters of Bay of Bengal.

3. 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	U/S of Kurnool town B/C with domestic sewage & A/c of Rayalaseema alkalies industries at Gondiparla, Kurnool.
04	4389	D/S of Kurnool town A/C with domestic sewage at Gondiparla, Kurnool.

Month-wise data of water quality of River Tungabhadra, 2020

Parameters	Code	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	*Standard		
													Class A	Class B	Class C
pH	1785	7.9	7.8	7.9	7.3	7.2	7.7	6.9	7	7.6	7.4	7.8	6.0 – 8.5	6.0 – 9.0	
	1174	7.7	7.4	7.8	7.4	7.3	7.6	7.8	7.5	7.9	7.7	7.6			
	4388	7	7.1	7.2	6.6	6.2	6.7	7	6.8	7.6	7.5	7.8			
	4389	7.3	7.1	7.6	7	7.2	7.8	7.6	7.5	7.6	7.5	7.9			
DO	1785	5.6	5.3	5.9	5.4	5.7	5.7	5.4	5.7	6.6	6.3	6.2	6	5	4
	1174	5.5	5.7	5.7	6.2	5.5	5.4	5.7	5.6	6.6	6.3	6.3			
	4388	5.4	5.6	5.7	5.1	5.4	5.5	5.2	5.1	6.4	6.2	6			
	4389	5.3	5.5	5	4.3	5.4	5.8	5.2	5.3	6.2	5.8	6			
BOD	1785	2.2	2.3	2.7	2.6	2.8	2.5	1.4	2.8	1.8	2	2	2	3	3
	1174	2.3	2.5	2.5	1.6	3	2.5	2.6	2.2	1.3	1.5	2.3			
	4388	2	1.9	2.5	3	3	2.7	1	2.2	1.7	2.3	1.5			
	4389	2.5	2.8	2.8	2.9	2.3	2.3	0.8	1.8	1.3	2.2	2.2			
Fecal Coliform	1785	100	400	300	200	200	100	100	300	100	200	110	---	500	---
	1174	200	300	200	100	200	200	100	200	100	200	95			
	4388	100	100	100	300	200	200	200	100	100	600	76			
	4389	200	300	200	300	100	100	100	100	200	800	170			
TDS	1785	1120	897	626	686	952	817	748	523	253	479	586	500 - 2000		
	1174	810	845	764	1084	1210	956	836	634	421	477	447			
	4388	944	1012	984	1786	2010	1769	1180	792	438	598	424			
	4389	756	745	603	1248	1328	1175	1086	587	438	424	433			

Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal coliform. Total 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 like D/S of Kurnool town. Hence, this location may be categorized as Class – C at these points.

4. River Nagavali:

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.

Month-wise data of water quality of River Nagavali, 2020

Parameters	Code	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	*Standard		
													Class A	Class B	Class C
pH	4351	7.5	7.8	7.76	8.25	8	8.3	7.59	7.51	7.45	7.87	8.2	6.0 – 8.5	6.0 – 9.0	
	1448	7.5	8	8.13	8.46	7.71	8.11	7.65	7.65	7.41	7.79	8.16			
	4346	7.2	7.8	Dried	8.38	7.86	8.25	7.68	7.5	7.69	7.66	7.42			
	4347	7.1	7.1	Dried	8.73	7.84	8.2	7.63	7.84	7.42	7.84	7.4			
DO	4351	8	6.9	6.7	6.5	6	6.5	7.6	8	6.5	5.6	6.2	6	5	4
	1448	6.8	5.9	6.5	6.7	5.9	5.9	5.8	6.2	7.3	5	8			
	4346	8.2	8.3	Dried	6.2	6	8.2	8	6.2	8.5	7.1	7.5			
	4347	5.5	7.9	Dried	6	5.8	8	7.8	5.3	6.5	6.3	7			
BOD	4351	2.8	1	1.4	1.4	1.5	1	1.4	2.5	1.8	2.1	1.4	2	3	3
	1448	2.7	2.7	2.5	2.2	1.4	1.4	1.7	1.7	1.8	2.2	1.2			
	4346	2.6	2.7	Dried	2	1.2	2.4	1	2.2	1.5	1.6	1.5			
	4347	4.5	2.9	Dried	2.8	2.3	2.8	2	2.4	1.7	2.3	1.7			
Fecal Coliform	4351	11	7	15	7	9	11	15	9	15	21	11	---	500	---
	1448	11	15	11	7	4	4	11	15	11	15	9			
	4346	9	21	Dried	15	7	7	11	7	9	11	7			
	4347	15	23	Dried	21	11	11	21	9	15	23	15			
TDS	4351	136	180	260	140	252	188	204	208	192	194	240	500 - 2000		
	1448	156	232	232	220	216	160	192	172	200	140	304			
	4346	332	312	Dried	224	240	208	196	240	264	180	248			
	4347	748	284	Dried	418	276	214	232	280	324	220	316			
Note: All values are expressed in mg/L except pH, Total Coliform value & Fecal coliform. Total Coliform & Fecal coliform is expressed in MPN count / 100 ml.															
Remarks: BOD & Fecal coliform values found to within the standard limits stipulated for bathing at all the locations.															

5. 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.

Parameters	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	*Standard		
												Class A	Class B	Class C
pH	7.2	7.6	7.0	6.3	5.9	6.8	6.8	7.1	7.0	6.9	7.9	6.0 – 8.5		6.0 – 9.0
DO	5.3	5.2	4.9	4.7	5.2	5.1	5.1	5.4	6.3	6.2	6.1	6.0	5.0	4.0
BOD	2.3	2.5	2.4	1.2	2.8	2.0	1.2	2.3	2.5	2.5	1.7	2.0	3.0	3.0
Fecal Coliform	200	400	100	200	300	300	200	200	200	300	180	---	500	---
TDS	461	656	512	624	728	834	752	664	384	296	365	500 - 2000		

Note: All values are expressed in mg/L except pH, Total Coliform & Fecal Coliform value. Total 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.

CPCB Water Quality Criteria for Designated Best Use

Designated-best- use	Class of water	Criteria
Drinking Water Source without conventional treatment but after disinfection.	A	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 50 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 6 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 2mg/l or less.
Outdoor bathing (Organized)	B	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 500 or less. • pH between 6.5 and 8.5 • Dissolved oxygen 5 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less.
Drinking Water Source after conventional treatment and disinfection.	C	<ul style="list-style-type: none"> • Total Coli forms Organism MPN/100 ml shall be 5000 or less. • pH between 6 to 9 • Dissolved oxygen 4 mg/l or more. • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Propagation of Wild life and Fisheries.	D	<ul style="list-style-type: none"> • pH between 6.5 to 8.5 • Dissolved oxygen 4 mg/l or more. • Free Ammonia (as N) 1.2 mg/l or less • pH 9 between 6.0 to 8.5.
Irrigation, Industrial Cooling, Controlled Waste disposal.	E	<ul style="list-style-type: none"> • Electrical Conductivity at 25°C micro mhos/cm Max. 2250. • Sodium Absorption ratio Max. 26 • Boron Max.2 mg/l.
	Below -E	Not Meeting A, B, C, D & E Criteria.