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.

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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 May, 2021 for taking further necessary action.

Yours faithfully,

G. Sudha Raya
For SPECIAL CHIEF SECRETARY TO GOVERNMENT

National Mission for Clean Ganga
Format for submission of Monthly Progress Report for the month of MAY, 2021in 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 Commissi-oning	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	Rajamahe-ndravaram	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	Puttaparthy	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	Tadepalli gudem	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	2nd call No Bidders. 3rd 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	Rajamahen dravaram	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 5^0C 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, AtchutapuramPudimadaka Road, Visakhapatnam.	20 MLD	*4 MLD	Texitile 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.	KondapallyEnvirotech 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, 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	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),
- 31Wet Waste Projects covering 34 ULBs treating 1430 TPD with an installed capacity of 1600 TPD are existing.
- 18Wet 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.

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 treatedat 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, Visahkapatnam.
- ✓ 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	• 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	August21
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	Jaggaiahpeta	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 forPolluted 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.asx*** 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.

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, 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										

Fecal Coliform	1175	76	81	350	240	430								---	500	---
	3083	81	76	920	350	280										
	4381	<3	3	3	3	3										
	1786	<3	3	3	3	3										
	1787	<3	3	3	3	3										
	0025	<3	3	3	3	3										
	4375	<3	3	3	3	3										
	1782	<3	3	3	3	3										
TDS	1175	372	428	445	764	623								500 - 2000		
	3083	386	418	389	419	432										
	4381	446	480	470	480	485										
	1786	416	450	540	528	540										
	1787	430	430	460	510	520										
	0025	374	380	418	498	510										
	4375	368	350	384	506	498										
	1782	25100	19000	23300	22400	22800										
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, 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 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								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 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	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	• 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^{O}C 2mg/l or less.
Outdoor bathing (Organized)	B	• 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^{O}C 3mg/l or less.
Drinking Water Source after conventional treatment and disinfection.	C	• 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^{O}C 3mg/l or less
Propagation of Wild life and Fisheries.	D	• 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	• Electrical Conductivity at 25^{O}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.