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

Letter No.1282446/UBS/2020 Dated:25-10-2022

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 SEPTEMBER, 2022 - 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, 2022 for taking further necessary action.

Yours faithfully,

Md. Nasim Baig

For SPECIAL CHIEF SECRETARY TO GOVERNMENT

National Mission for Clean Ganga
Format for submission of Monthly Progress Report for Month of September 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

III. Details of Sewage Treatment Plant:

- Existing No. of STPs and Treatment Capacity (14 ULBs) :535.45 MLD (45Nos)
- Present Gap in Treatment Capacity in MLD :967.75 MLD
- Capacity of under construction STP's(35 ULB) : 507.17 MLD (61 Nos)
- Quantity of Treated Sewerage (in MLD) : 382.82 MLD
- STPs Under Tender :35.60 MLD

(Kurnool Municipal Corporation 3 STP's [35.0+0.4+0.2] MLD)

- No. of Operational STPs : 45 Nos
- No. of Complying STPs : 45 Nos
- No. of Non-complying STPs : Nil
- Quantity of Reuse of Treated water : 119.90 MLD
- No of STPs Under Construction at APTIDCO Houses : 117.75 MLD (130 Nos) (0.20 to 3.70 MLD)
- Gap after completion of above STPs : 307.23 MLD
- Proposed STPs (below 1 lakh population) : 74 ULBs
- Proposed Capacity for year 2040 : 634.89 MLD
- No. of STPs : 117
- No. of NSTPs : 117
- Estimated Cost : 1445.16 Crs
- Current Status : EoIevaluation Stage

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	05/2019	38.00	29.00	Operational	Complied
2		Appughar	09/2010	25.00	23.80	Operational	Complied
3		Mudasarlova	04/2008	13.00	6.50	Operational	Complied
4		Narava	08/2001	54.00	30.50	Operational	Complied
5		Anakapalle	04/2018	15.00	4.50	Operational	Complied
6		Madinabagh	-	2.00	0.50	Operational	Complied
7		Yathapalem Colonies	04/2008	2.50	0.80	Operational	Complied
8		Srinagar	04/2008	0.50	0.30	Operational	Complied
9		Karnavanipalem	12/2019	5.00	0.0	Operational	Complied
10		Mantripalem	04/ 2008	1.00	0.35	Operational	Complied
11		Aganampudi	12/2015	6.00	2.80	Operational	Complied
12		RathiCheruvu	09/ 2019	2.00	0.60	Operational	Complied
13		Kommadi / Madhurawada	08/2018	4.00	2.40	Operational	Complied
14		Bakkannapalem	08/ 2011	1.00	0.50	Operational	Complied
15		Marikavalasa	12/ 2012	2.00	0.80	Operational	Complied
16		Vambay Colony	08/ 2011	3.00	1.40	Operational	Complied
17		YSR Nagar	08/ 2011	2.00	1.20	Operational	Complied
18		Boyapalem	08/ 2011	1.00	0.60	Operational	Complied
			Sub Total	**177.00**	**106.55**		

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	01/2009	**30.00**	**30.00**	Operational	Complied
20	Vijayawada	Ajith Singh Nagar-1	05/2011	40.00	39.52	Operational	Complied
21		Ajith Singh Nagar-2	05/2012	20.00	20.00	Operational	Complied
22		Ramalingeswar Nagar-1	06/2012	20.00	19.74	Operational	Complied
23		Ramalingeswar Nagar-2	10/2006	10.00	9.80	Operational	Complied
24		Autonagar -1	03/2005	10.00	9.70	Operational	Complied
25		Autonagar -2	12/2018	10.00	9.80	Operational	Complied
26		Jakkampudi	07/2017	20.00	13.50	Operational	Complied
			Sub Total	**130.00**	**122.06**		
27	Tirupathi	Thukivakam	09/.2018	**50.00**	**33.00**	Operational	Complied
28	Kadapa	Nanapally	08/2012	**20.00**	**10.00**	Under Rehabilitation	Complied
29	Pulivendula	Rotarypuram	01/2009	**6.50**	**2.50**	Under Rehabilitation	Complied
30	Tadipatri	Gannevaripalle	10/2010	3.50	2.50	Operational	Complied
31			10/2010	8.00	4.0	Operational	Complied

			Sub Total	**11.50**	**6.50**		Complied
32	Puttaparthy	1.Sai Nagar	07/2001	0.50	0.50	Operational	Complied
33		2. Gokulam	07/.2001	0.50	0.0	Under Rehabilitation	Complied
34		3. Prasanthi Gram	07/2001	0.50	0.0	Under Rehabilitation	Complied
			Sub Total	**1.50**	**0.50**		
35	Narsaraopeta	CPT Road	02/2018	**15.55**	**8.50**	Operational	Complied
36	Nellore	Janardhan Reddy Colony	-	5.00	5.00	Operational	Complied
37		Allepuram	-	55.00	55.0		
38		Drivers Colony	-	11.00	0.00	Under Trail Run	Complied
			Sub Total	**71.00**	**60.00**		
39	Kurnool	Jammichettu	03/2019	0.80	0.80	Operational	Complied
40		SankalBagh	03/2019	0.80	0.80	Operational	Complied
41		Tungabhadra PumpHouse	03/2018	0.80	0.80	Operational	Complied
			Sub Total	**2.40**	**2.40**		
42	Tadepalli	Mahanadu-1	12/2018	0.20	0.20	Operational	Complied
43		Mahanadu-2	12/2018	0.20	0.20	Operationa	Complied
44	Kondapalli	Security Colony	12/2021	**0.80**	**0.40**	Operationa	Complied
45	Yemmiganuru		06/2022	**19.80**			
		Grand Total		**535.45**	**382.82**		

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	Status
1	Srikakulam	AMRUT	1	10.00	45%	Dec - 2023	Proposals submitted to the Govt forre tenders
2	Vizianagaram	AMRUT	1	5.00	54%	Dec - 2023	Proposals submitted to the Govt for re tenders
3	GVMC	Smart City Package-I	1	54.00	92%	March 2023	In Progress
4	Kakinada	AMRUT	1	5.00	72%	March 2023	In Progress
5	Rajamahendravaram	AMRUT	1	5.00	60%	May2023	In Progress
6	Bhimavaram	AMRUT	1	5.00	72%	March 2023	In Progress
7	Tadepalligudem	AMRUT	1	5.00	2%	Dec - 2023	In Progress
8	Eluru	AMRUT	1	5.00	92%	June-2023	In Progress

9	Machilipatnam	AMRUT	1	5.00	48%	Sep -2023	Proposals submitted to the Govt for Closer
10	Gudivada	AMRUT	1	5.00	66%	Jan - 2023	In Progress
11	Vijayawada	JNNURM	1	20.00	85%	Dec -2022	In Progress
12	Tenali	AMRUT	1	10.00	70%	Dec -2022	In Progress
		14 FC	1	2.00	30%	March - 23	Work stopped due to court case
13	Ongole	AMRUT	1	15.00	99 %	Oct -2022	In Progress
14	Chilakaluripeta	AMRUT	1	5.00	24%	June2023	In Progress
15	Kavali	AMRUT	1	15.00	88%	Jan - 2023	In Progress
16	Nellore	HUDCO	1	20.00	85%	March - 23	In Progress
			1	14.00	0%	Sept-2023	The site issue resolved, work will be Grounded
17	Tirupati	Smart City	1	25.00	66%	March 2023	In Progress
18	Srikalahasti	AMRUT	1	7.00	41%	March 2023	In Progress
19	Madanapalle	AMRUT	1	5.00	21%	March 2023	In Progress
20	Kadapa	AMRUT	1	20.00	0%	Dec -2023	-
21	Anantapuramu	AMRUT	1	10.00	-	Dec - 2023	LoA issued to the Agency
22	Dharmavaram	AMRUT	2	8.00	-	Dec - 2023	Tender Process
23	Guntakal	AMRUT	1	8.00	2%	March 2024	Proposals submitted to the Govt for Re - Tenders
24	Kurnool	AMRUT	1	2.00	85%	Dec -2022	In Progress
		AMRUT	1	10.00	24%	Sep- 2023	In Progress
25	Nandyal	AMRUT	1	10.00	37%	May -2023	In Progress
26	Adoni	AMRUT	1	5.00	28%	May -2023	In Progress
27	Guntur	OTSFA	1	10.00	70%	Dec -2023	-
			1	20.00	60%	Dec -2023	-
			1	42.00	51%	Dec -2023	-
			1	28.00	51%	Dec -2023	-
			1	23.00	0%	March - 2024	The site issue resolved, Work will be Grounded

28	Pulivendula	PLAN	1	10.00	100%	Dec -2022	
			1	1.50	87%	Dec -2022	In Progress
			1	1.50	0%	June -2023	-
			5	2.50 (0.50 MLD x 5 Nos)	10%	March 2023	In Progress
			1	0.02	5%	March 2023	-
			1	0.07	5%	March 2023	-
			1	0.08	5%	March 2023	-
			1	0.10	5%	March 2023	-
29	Rayachoti	PLAN	5	6.90	5%	Dec -2023	In Progress
			1	15.50	2%	Dec -2023	-
30	Kondapalli	CSR Fund	1	2.00	12 %	Dec -2023	In Progress
31	Kanigiri	AIIB	1	6.00	2%	Sep -2023	-
32	Sullurpet	AIIB	3	8.00	3%	Sep -2023	Sites handed over, Designs under finalization
33	Allagadda	AIIB	1	5.00	2%	March 2024	-
34	Nandikotkur	AIIB	1	5.00	0 %	March 2024	-
35	Madakasira	AIIB	1	5.00	2%	March 2024	-
	Grand Total		**61**	**507.17**			

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 1,00000 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) 2022 :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	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
1.	Tungabhadra	Kurnool	10 MLD	21%	Administrative sanction for an amount of Rs.79.78crs has been accorded by the Government for construction of 35.60MLD capacity of STPs which is in tender process and are under finalisation .
			2 MLD	80 %	
2	Kundu	Nandyal	10 MLD	37%	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	Ongoing STP Capacity (in MLD)	Status of Ongoing Works	Status of DPRs
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	Rajamahendhravaram	5 MLD	60 %	DPR on Comprehensive UGD scheme prepared with additional STP's of capacity 72.37 MLD for an amount of Rs.404.00 Cr. Government of India accorded Administrative Approval& Expenditure Sanction for an amount of 88.43 Crores for Project "Pollution abatement and conservation of River Godavari under NRCP" on Dt.17/03/2022. SNA Account opened as from Government is awaited
3.	Krishna	Vijayawada	20 MLD	85%	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. Proposals for upgradation of existing 20.00 MLD STP, Bio –Gas Energy Plants is prepared with an estimated cost of Rs. 14.93 Crores and submitted proposal for according administrative sanction by Government.

IV. Details of Industrial Pollution:

- No. of industries in the State: 9962No's
- No. of water polluting industries in the State: 1442 No's
- Quantity of effluent generated from the industries in MLD: 4542.5

Effluent Break-Up Details:

- Once through Cooling water: 3826.13 MLD
- Trade effluents:412.69 MLD
- cooling tower/Boiler blow down: 254.12 MLD
- Domestic waste water: 49.565 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 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: 349 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: 8No's with total capacity of 22.5 MLD

    M/s. APIIC Mega Food Park, CETP (Phase-I), Sy.No.11, Mallavalli (V), Bapulapadu (M), Krishna District (0.3 MLD) – is under stabilization.
  - ii. Proposed: 3 no's
    - 1.5 MLD at Atchuthapuram SEZ, Visakhapatnam – Under Approval
    - 1.5 MLD at Nakkapalli, Visakhapatnam. -Under ADB approval.

V. Solid Waste Management:

- Total Number of Urban Local Bodies: **123** and their Population: **1.5** Crore

- Current Municipal Solid Waste Generation: **6890** TPD for 123 ULBs
- The Source Segregation in the State is 98.17% and 100 % door to door collection in the state.

Door to Door Garbage collection & Source Segregation

- Total No. of wards in 123 ULBs: 3928
- No. of wards having door to door collection system: 3928
- No. of wards practicing segregation at source: 3856

Waste to Energy Projects

Waste to Energy Plants are being used for final disposal of combustible dry waste collected by the ULBs on daily basis. There are Two Waste to Energy projects established in the State.

- Guntur &Visakhapatnam Waste to Energy Plants each of 15 MW capacity are established &synchronized with grid and running at full load capacity.

- These two plants are processing around 1600 TPD of municipal solid wastecovering 41 ULBs (Visakhapatnam-13 ULBs& Guntur-28 ULBs).

West Waste Processing Plants

- 32 Waste to Compost/Bio-methanation Plants are established covering 40 ULBs. Out of which 28 Waste to Compost & 4 Bio-methanation plants. The installed capacity of these 32 Wet Waste Plants are 1558 TPD and at present treating 1422TPD.
- 17Waste to Compost/Bio-methanation Plants (15 Waste to Compost & 2 Bio-methanation) covering 17 ULBs are in progress with an installed capacity of 409 TPD.
- Work orders issued to 37 Agencies for establishment of 37 Integrated Solid Waste Management Projects.
- 14 ULBs Clustered with Integrated Solid Waste Management were instructed to transport the waste to nearby projects. Balance 15 ULBs independent solutions will be planed.

Construction & Demolition Waste Processing Plants

- 3 Construction and Demolition waste processing plants with an installed capacity of 200 TPD are existing at Greater Visakhapatnam Municipal Corporation, Vijayawada Municipal Corporation and Tirupati Municipal Corporation&treating 100 TPD by each plant.

Bio remediation of Legacy Waste

- 123 Dumpsites with an area of 1173 acres are existing in the State. Out of which remediation of dumpsites in 2 ULBs (Vijayawada & Tirupati) was completed.
- Work is under progressin 5 ULBsviz., Vishakhapatnam, Kurnool, Ananthapuramu, Dharmavaram&Narasaraopet&Work awarded in 13 ULBs
- Tenders are invited by 7 ULBs which are in various stages and 3 ULBs yet to float tenders.
- For 91 ULBs below 1 lakh Population,work is under progress in 1 ULB (Pulivendula) &balance 90 ULBs LOA issued.
- No Dump sites of legacy waste are within 1 KM buffer of both sides of the rivers in the State.

Material Recovery facilities (MRFs)

- 79 Material Recovery facilities are established in 79 ULBs processing 800 TPD.
- 44 Material Recovery facilities have to be established in 44 ULBs.

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	Yellamanchili	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%

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
19	Puttaparty	15	Existing WtC	8	85%	RDF in progress		Established	2	85%
20	Yemmiganur	46	WtCNG - Adoni	25	85%	RDF in progress		Established	10	85%
21	Anantapur	131	Work order issued	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	Work order issued	0		Connected to Cement Factories	2	In Progress		
24	Dhone	29	Work order issued	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	WtCAwared	12		Feasibility Study under progress		Established	4	85%
34	Srikakulam	65	Work order issued	0		Vizag WtE		Established	16	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
35	Palakonda	16	WtC Awarded	0		Vizag WtE		In Progress		
36	Vizianagaram	119	Work order issued	0		Vizag WtE		Established	30	90%
37	Parvathipuram	26	WtC Awarded	0		Vizag WtE		In Progress		
38	Nellimarla	14	Work order issued	0		Vizag WtE		Established	2	90%
39	Gudur N	36	Work order issued	0		Connected to Cement Factories	2	In Progress		
40	Guntakal	62	Work order issued	0		Connected to Cement Factories	2	Established	14	90%
41	Jaggaiahpet	26	Work order issued	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	Work order issued	0		Guntur WtE		Established	80	90%
46	Mangalagiri - Tadepalle	70	Work order issued	0		Guntur WtE		Established	16	90%
47	Ponnur	29	Work order issued	0		Guntur WtE		Established	6	90%
48	Chilakaluripet	49	Work order issued	0		Guntur WtE		Established	12	90%
49	Bapatla	34	Work order issued	0		Guntur WtE		Established	8	90%
50	Repalle	25	WtC Awarded	0		Guntur WtE		Established	4	90%
51	Vinukonda	30	Work order	0		Guntur 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
			issued							
52	Macherla	28	Existing WtC	30	35%	Feasibility Study under progress		Established	6	90%
53	Kadapa	167	Work order issued	0		Connected to Cement Factories	6	Established	40	90%
54	Dharmavaram	62	No bids received, to be retendered	0		RDF in progress		In Progress		
55	Kadiri	43	No bids received, to be retendered	0		Connected to Cement Factories	1	Established	8	90%
56	Gooty	24	No bids received, to be retendered	0		RDF in progress		Established	4	90%
57	Hindupur	74	No bids received, to be retendered	0		RDF in progress		In Progress		
58	Kurnool	224	Work order issued	0		Connected to Cement Factories	2	In Progress		
59	Kalyandurgam	21	WtC Awarded	0		RDF inprogress		Established	2	90%
60	Madakasira	12	WtC Awarded	0		RDF inprogress		Established	2	90%
61	Machilipatnam	89	WtC Awarded	0		RDF Connected / Guntur WtE	3	Established	20	90%
62	Mydukur	22	Connected to Proddutur ISWM	0		Connected to Cement Factories	1	In Progress		
63	Nandigama	22	Connected to	0		RDF Connected /	1	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
			Jaggaiahpeta ISWM			Guntur WtE				
64	Nandikotkur	23	Connected to Kurnool ISWM	0		Connected to Cement Factories	1	Established	4	90%
65	Gudur K	14	Connected to Kurnool ISWM	0		RDF in progress		In Progress		
66	Nandyal	98	Work order issued	0		Connected to Cement Factories	3	In Progress		
67	Proddutur	79	Work order issued	0		Connected to Cement Factories	2	In Progress		
68	Pulivendula	32	Existing WtC	18	85%	Connected to Cement Factories	2	Established	6	85%
69	Rajahmundry	168	Work order issued	0		Connected to Cement Factories	3	Established	40	90%
70	Rajampeta	23	No bids received, to be retendered	0		Connected to Cement Factories	1	In Progress		
71	Rayachoti	44	No bids received, to be retendered	0		Connected to Cement Factories	2	Established	8	90%
72	Tadipatri	53	Existing WtC	29	90%	Connected to Cement Factories	2	Established	10	90%
73	Tirupati	208	Existing WtCNG	114	85%	Connected to Cement Factories	4	Established	45	85%
74	Ongole	123	WtCNG awarded	0		Guntur WtE		Established	30	90%
75	Chimakurthy	17	WtC Awarded	0		Guntur 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
76	Addanki	20	WtC Functional	0	40%	Guntur WtE		Established	4	90%
77	Kandukur	28	WtC Awarded	0		Feasibility Study under progress		Established	6	90%
78	Kakinada	159	Work order issued	0		Feasibility Study under progress		Established	35	90%
79	Vijayawada	507	Existing WtC	279	85%	RDF Connected / Guntur WtE	6	Established	150	85%
80	Gollaprolu	11	Connected to Pithapuram ISWM	0		Feasibility Study under progress		In Progress		
81	Pithapuram	25	Work order issued	0		Feasibility Study under progress		Established	3	90%
82	Peddapuram	24	Work order issued	0		Feasibility Study under progress		Established	3	90%
83	Samalkota	28	No bids received, to be retendered	0		Feasibility Study under progress		Established	4	90%
84	Yeleswaram	16	Connected to Peddapuram ISWM	0		Feasibility Study under progress		Established	2	90%
85	Ramachandrapuram	21	Connected to Samalkot ISWM	0		Feasibility Study under progress		Established	2	90%
86	Mandapeta	26	Connected to Rajamahendravaram ISWM	0		Feasibility Study under progress		Established	4	90%
88	Tuni	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%
88	Mummidivaram	12	WtC Awarded	0		Feasibility Study		Established	2	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	Amalapuram	26	WtC Awarded	0		Feasibility Study under progress		Established	3	90%
90	Eluru	106	Work order issued	0		Feasibility Study under progress		Established	22	90%
91	Tadepalligudem	51	Work order issued	0		Feasibility Study under progress		Established	8	90%
92	Tanuku	44	Work order issued	0		Feasibility Study under progress		In Progress		
93	Palakollu	33	Work order issued	0		Feasibility Study under progress		In Progress		
94	Narsapuram	29	Work order issued	0		Feasibility Study under progress		Established	4	90%
95	Bhimavaram	69	Work order issued	0		Feasibility Study under progress		Established	12	90%
96	Nidadavole	21	Connected to Tanuku ISWM	0		Feasibility Study under progress		In Progress		
97	Kovvur	19	Connected to Rajamahendravaram ISWM	0		Feasibility Study under progress		In Progress		
98	JangareddyGudem	26	No bids received, to be retendered	0		Feasibility Study under progress		Established	4	90%
99	Chittoor	92	Work order issued	0		Feasibility Study under progress		Established	18	90%
100	SriKalahasti	39	Work order issued	0		Feasibility Study under progress		Established	8	90%
101	Nagari	30	Work order	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
			issued			under progress				
102	Puttur	26	Work order issued	0		Feasibility Study under progress		In Progress		
103	Nellore	300	Work order issued	0		Feasibility Study under progress		In Progress		
104	Venkatagiri	25	Work order issued	0		Feasibility Study under progress		In Progress		
105	Yerraguntla	17	Connected to Proddutur ISWM	0		Connected to Cement Factories	1	In Progress		
106	Naidupet	22	Work order issued	0		Feasibility Study under progress		Established	4	90%
107	Atmakur N	15	No bids received, to be retendered	0		Feasibility Study under progress		In Progress		
108	Kavali	51	Work order issued	0		Feasibility Study under progress		Established	10	90%
109	Kondapalli	21	Work order issued	0		Guntur WtE		Work order Issued		
110	Akiveedu	11	No bids received, to be retendered							
111	Dachepali	11	Connected to PidugurallaWtCNG							
112	Gurazala	9	Connected to Macherla WtC							
113	Darsi	12	No bids received, to be retendered							
114	BuchireddyPalem	12	Connected to Nellore ISWM							
115	Penukonda	10	Connected to Puttaparthy WtC							
116	Bethamcharla	14	No bids received, to be retendered							
117	Kamlapuram	7	Connected to Prodduturu ISWM							
118	Kupam	15	No bids received, to be retendered							
119	Y.S.R. -	23	Connected to Vijayawada WtC							

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									
120	Chuintalapudi	4	No bids received, to be retendered							
121	Podili	6	Connected to Kanigir WtC							
122	Alluru	9	Connected to Kavali ISWM							
123	B.KothaKota	6	No bids received, to be retendered							
Total		**6890**								

VI. Bio-medical Waste Management:

- Total Bio-medical generation: 17.483Tones/ day
- No. of Hospitals and Health Care Facilities: 13,058Nos.

Status of Treatment Facility/ CBMWTF	:	Presently, there are 13 Nos. of Common Bio-medical Waste Treatment and disposal Facilities (CBMWTFs) operating in the State of Andhra Pradesh for treatment and for disposal of Bio-Medical waste as per the BMW Management Rules 2016.

VII. Hazardous Waste Management:

- Total Hazardous Waste generation is about: 42,184Tones during the month of September, 2022 and cumulative quantity (April toSeptember 2022) is 2,20,687.303 tones.
- No of industries generating Hazardous Waste:2708 Nos as per Hazardous Waste inventory, 2020 -21.
- **For the month of September, 2022, the Quantity of Hazardous Waste Treated & Disposed is as follows:**
    i) Utilizable waste is 26076TPM (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 is1834.457 TPM (suitable for recycling /recovery of material viz. oil reclamation units, lead and zinc recovery units).
    iii) Incinerable waste is 419.16 TPM (not suitable for any recycling / reuse and having high calorific value i.e. > 2500 K cal/kg) and
    iv) Land fillable waste is 13036.19TPM (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.

Note: The above data is obtained from the APEMC online portal. The above data may vary during verification of annual returns submitted by the industry.

- **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.

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, AtchutapuramPudimadaka Road, Visakhapatnam.	6*	4.8	Texitile park- 14 units	Complied * APPCB permitted to establish 20 MLD capacity of CETP for operation full capacity industrial park. At present 6 MLD CETP was constructed as the effluent generation is 5.1 MLD.
2.	Ramky Pharma City (India) Ltd, JN Pharma City, Parawada Mandal, Visakhapatnam.	9.53	4.2	Pharmaceutical & Bulk drugs-93 units	Complied
3.	KondapallyEnvirotech Pvt. Ltd., (KEPL), IDA, Kondapalli (V), Ibrahimpatnam (M), Krishna District.	0.2	* 0.0	Pharmaceutical & Bulk drugs-14 units	*The CETP restarted operations and under stabilization and effluent sent to CETP, JNPC for further treatment 11.11.2022.
4.	Vijayawada Auto Cluster Development Company, Industrial Estate, Auto Nagar, Vijayawada.	0.2	0.07	Food beverages, Herbal pharma, Oil solvents & lubricants - 35 units.	Complied
5.	Machilipatnam Imitation Jewellery Park Pvt. Ltd., Jewellery Park, Pothepalli, Machilipatnam.	0.07	0.0003	Electro Plating – 48 Units	Complied
6.	Nagari Dyeing Owners Association, Chinthalapatteda (V), Nagari (M), Chittoor District.	4	1.25	Manual Dyeing units - 105 units	Complied
7.	Atchuthapuram Effluent Treatment Plant, Atchutapuram Visakhapatnam.	1.5	0.49	Pharmaceutical & Bulk drugs-37 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	0.04	Pharmaceutical – 8 Units	Complied Started operations in the month of November 2021 and receiving effluents from 3 Industries.
	Total	**21.5**	**10.8503**		

VIII. Plastic Waste Management:

Total plastic waste generation	39,626 TPA (As per Annual Report for the F.Y. 2020-21).
Implementation of Plastic Waste Management Rules 2016 in Urban Local Bodies	• 62 Nos of recyclers registered with APPCB. Total recycling capacity is 39,991 TPA. • The State has released G.O.Ms.No.349, dated 29.10.2018 for implementation of Plastic Waste Management Rules, 2016 in the ULBs. • The plastic waste in Urban Local Bodies is being collected through the Public Health Workers of the ULBs. The segregated plastic waste, which is recyclable, is sent to recyclers i.e., from MRFs and the segregated plastic, which is not suitable for recycling is sent to nearby Cement Plants and also being used in road construction in some ULBs. 29 ULBs have so far, tied up with nearby Cements Plants to send non-recyclable Plastic Waste & another 2 ULBs found viable to send Plastic Waste to Cement Plants, considering the distance and instructions issued to Municipal Commissioners to enter into MoU with them also by end of December, 2022. • The manufacture, sale& usage of plastic carry bags of below 75 microns' thickness is banned in the State of Andhra Pradesh. Teams of PCB are making inspections and surprise raids to ensure no sale & usage of banned plastic carry bags. • About 24.17 ton of plastic waste seized which includes SUP and other banned items. • In Visakhapatnam, Vizianagaram, Vijayawada, Kurnool &Tirupati, under extended producer responsibility, Plastic Waste Collection system has been established. • Instructions issued to the Municipal Commissioners of Head Quarter ULBs to conduct stakeholders' meetings under the Chairmanship of the District Collectors to ensure setting up collection centers under EPR in Municipal Corporations & bigger ULBs. • In Visakhapatnam, Vijayawada, Tirupati, Rajamahendhravaram, Kakinada & Amalapuram Plastic Waste is being used in construction of Roads and the details are as follows:

Sl. No.	Name of the ULB	Length of Road Constructed	Quantity of Plastic Waste utilized for constructions of Road
1	Visakhapatnam	8.0Kms	14.5 Tons
2	Vijayawada	5.0Kms	5.0 Tons
3	Tirupati	0.9Kms	0.9 Tons
4	Rajamahendhravaram	3.0Kms	4.2 Tons
5	Kakinada	1.2 Kms	2.0 Tons
6	Amalapuram	1.0 Km	0.2 Tons

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

Details of Faecal Sludge Treatment Plants:

No. of Completed FSTPs : 5 (75 KLD)

No. of In-progress FSTPs : 60 (905 KLD)

No. of FSTPs to be retendered : 11 (175 KLD)

No. of FSTPs DPRs to be Prepared: 15

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
3	Palamaneru	15	Operational
4	Bobbili	15	Operational
5	Vinukonda	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 Nov 22
2	Gooty	15	March -23
3	Jammalamadugu	15	March -23
4	Kadiri	25	March -23
5	Kalyanadurgam	10	March -23
6	Madakasira	5	March -23
7	Pulivendula	20	March -23
8	Puttaparthi	10	March -23
9	Rayachoti	25	March -23
10	Rayadurg	20	March -23
11	Allagadda	10	March -23
12	Atmakur (K)	15	March -23
13	Badvel	25	March -23
14	Gudur (K)	5	March -23

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
15	Mydukuru	15	March -23
16	Nandikotkur	15	March -23
17	Yelamanchili	15	March -23
18	Punganur	15	March -23
19	Rajampeta	15	March -23
20	Yerraguntla	10	March -23
21	Atmakur (N)	10	March -23
22	Giddalur	10	March -23
23	Gudur (TPT)	20	March -23
24	Kandukur	20	March -23
25	Kanigiri	15	March -23
26	Markapur	20	85 % of Work Completed, Nov- 22
27	Nagari	20	March -23
28	Naidupet	15	March -23
29	Puttur	15	March -23
30	Sullurpeta	15	March -23
31	Venkatagiri	15	March -23
32	Addanki	10	March -23
33	Bapatla	25	40% work completed Dec- 22
34	Chimakurthy	10	March -23
35	Chirala	25	40% work completed Dec 22
36	Macherla	15	March -23
37	Mangalagiri	25	March -23
38	Piduguralla	15	March -23
39	Ponnur	15	40% work completed Dec- 22
40	Repalle	15	March -23
41	Sattenapalli	15	March -23
42	Salur	15	March -23
43	Amalapuram	15	March -23
44	Gollaprolu	5	March -23
45	Kovvur	10	March -23
46	Mandapeta	15	March -23
47	Mummidivaram	10	March -23
48	Peddapuram	15	March -23
49	Pithapuram	15	March -23
50	Ramachandrapuram	15	March -23

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
51	Samalkota	15	March -23
52	Tuni	15	March -23
53	Yeleshwaram	10	March -23
54	Amudalavalasa	10	March -23
55	Parvathipuram	15	March -23
56	Ichapuram	10	March -23
57	Narsipatnam	20	March -23
58	Nellimarla	10	March -23
59	Palakonda	10	March -23
60	Palasa-Kasibugga	15	March -23
		905	

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	Jaggaiahpeta	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 preparation in progress - Newly Constituted ULBs
2	Kondapalli	
3	Dachepali	
4	Gurazala	
5	Darsi	
6	BuchireddyPalem	
7	Penukonda	
8	Bethamcharla	
9	Kamlapuram	
10	Kupam	
11	Y.S.R. -Tadegadapa	
12	Chuintalapudi	
13	Podili	

14	Alluru	
15	B.KothaKota	

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

- A total 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: 103 EFS&T Department Dated: 25-11-2020.

XII. Details of meetings carried under the Chairmanshipof ChiefSecretary 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 September 2022 is enclosed.**
- **As per the analysis of samples collected at 27 locations in the month of September 2022 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:

- 9 ULBs Utilizing Re – Use of Treated Waste Water

S.No	Name of the ULB	Installed Capacity (in MLD)	Qty of treated sewage utilised
1	2	3	4
1	Visakhapatnam	177.00	39.00
2	Rajamahendravaram	30.00	20.00
3	Tirupathi	50.00	33.00
4	Narsaraopeta	15.55	8.50
5	Tadipatri	11.50	6.50
6	Puttaparthy	1.50	0.30
7	Kurnool	2.40	0.096
8	Kadapa	20.00	10.00
9	Pulivendula	6.50	2.50
	Total in MLD	**314.45**	**119.90**

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 - 2022

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, 2022 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, 2022

Parameter	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Standard		
														Class A	Class B	Class C
pH	4367	8.06	8.47	8.46	8.64	8.13	7.77	8.4	7.77	8.13				6.0 - 8.5		6.0 – 9.0
	4359	7.44	7.66	8.45	8.42	7.78	7.61	----	7.71	7.71						
	0014	7.45	8.03	7.80	8.01	8.27	8.16	7.57	7.73	8.06						
	1218	7.41	7.99	7.93	8.05	8.12	7.94	7.58	7.73	8.02						
	2370	7.45	7.47	7.83	7.96	7.49	7.50	7.34	7.66	7.96						
	2371	7.74	7.55	7.58	7.98	7.90	7.48	7.7	7.65	8.01						
	1219	7.75	7.31	7.87	8.01	7.05	7.83	8.05	8.13	8.26						
	4365	8.05	7.85	8.21	8.44	7.88	7.77	7.48	7.79	7.94						
	4366	8.01	4.85	8.27	8.43	7.68	7.84	7.48	7.8	7.98						
	4358	7.41	7.72	8.17	7.77	7.46	7.86	7.79	8.31	7.93						
DO	4367	8.5	8.5	7.2	7.5	6.5	6.0	6.8	7.0	6.4				6.0	5.0	4.0
	4359	8.1	8.1	7.0	7.2	6.5	6.2	----	7.0	7.0						
	0014	8.8	8.7	6.0	7.0	6.5	6.4	7.0	6.8	6.4						
	1218	8.5	8.0	7.0	7.4	6.4	6.3	6.8	6.7	6.3						
	2370	7.1	7.0	7.0	7.0	6.0	6.8	7.2	7.4	7.6						
	2371	6.8	6.3	6.5	6.5	5.9	6.7	7.4	7.6	6.7						
	1219	8.0	6.9	7.0	7.2	6.2	6.5	7.4	7.6	7.7						
	4365	7.2	8.0	6.7	6.6	6.0	5.6	5.6	7.4	6.2						
	4366	5.8	6.5	5.8	6.4	5.8	5.5	5.4	7.6	6.1						
	4358	6.4	7.0	7.5	6.2	6.0	7.0	6.5	7.1	7.0						
BOD	4367	2.0	2.3	2.2	1.9	2.0	1.9	1.9	1.8	1.8				2.0	3.0	3.0
	4359	2.0	2.0	2.0	2.0	1.8	1.6	----	2.0	2.0						
	0014	1.8	1.7	2.0	1.8	1.0	2.2	2.0	2.0	2.1						
	1218	1.6	2.0	1.8	1.5	1.1	1.3	2.2	2.1	2.3						
	2370	2.4	1.4	1.8	2.0	1.9	2.4	2.2	2.2	2.0						
	2371	2.4	1.5	1.8	2.2	2.3	2.6	2.4	2.4	2.4						
	1219	2.0	2.2	2.0	2.0	2.2	2.4	2.4	2.2	2.2						
	4365	2.0	2.1	2.1	2.0	2.4	2.0	1.4	2.2	2.4						
	4366	2.4	2.5	2.3	2.2	2.6	2.2	1.3	2.4	2.6						
	4358	2.6	2.1	2.2	2.0	2.4	2.8	2.6	2.4	2.2						

Total Coliform	4367	120	210	120	120	150	120	150	93	150				50	500	5000
	4359	49	43	49	39	28	43	---	21	21						
	0014	93	120	75	93	120	150	150	120	120						
	1218	75	93	39	64	120	210	120	150	120						
	2370	120	210	120	93	210	210	210	240	210						
	2371	150	460	150	120	240	240	240	210	210						
	1219	120	240	240	150	240	240	150	210	240						
	4365	120	120	120	120	150	150	120	120	210						
	4366	150	150	460	150	240	240	240	210	240						
	4358	93	240	93	93	110	150	120	150	150						
Fecal Coliform	4367	7	10	7	15	7	4	7	4	28				---	500	---
	4359	3	3	4	3	3	3	---	3	3						
	0014	4	9	4	4	4	4	3	3	9						
	1218	3	4	3	3	7	7	3	3	7						
	2370	7	21	9	7	9	7	7	11	11						
	2371	9	28	15	9	15	9	11	7	7						
	1219	9	43	15	9	21	20	7	9	21						
	4365	9	9	4	4	4	3	3	4	7						
	4366	11	15	21	9	9	7	7	7	21						
	4358	3	21	4	4	4	4	3	3	7						
TDS	4367	172	192	196	172	314	85	135	120	140				500 - 2000		
	4359	84	72	108	780	85	84	---	430	430						
	0014	166	200	176	158	120	105	130	122	150						
	1218	160	192	164	152	140	96	132	128	130						
	2370	184	218	196	156	144	127	265	232	170						
	2371	196	240	212	180	140	109	130	230	160						
	1219	192	208	222	182	144	97	140	184	150						
	4365	17124	23240	25840	25432	29462	20838	13020	124	132						
	4366	19480	26680	26728	27364	29082	27404	19230	146	1940						
	4358	17240	19400	27860	31570	3024	21065	26325	172	148						

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, due to increasing of TDS value.

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, 2022 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, 2022:

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1175	7.9	7.7	7.3	7.9	7.6	7.4	7.8	7.3	7.1				6.0 - 8.5		6.0 – 9.0
	3083	7.8	7.8	7.0	7.7	7.9	7.8	7.9	8.0	7.0						
	4381	7.85	8.23	8.14	8.24	7.62	7.70	7.60	7.84	7.6						
	1786	7.80	7.28	7.46	7.87	7.94	7.88	7.49	7.52	7.86						
	1787	7.83	8.01	7.39	8.31	7.86	7.09	7.96	8.06	7.86						
	0025	7.86	7.43	7.48	8.17	7.45	7.50	7.24	7.99	8.26						
	4375	8.17	7.77	7.86	7.99	8.01	7.96	7.78	8.28	8.16						
	1782	7.84	7.44	7.58	7.65	7.85	7.63	7.83	7.70	7.96						

DO	1175	6.0	6.1	6.0	5.7	5.2	5.8	6.1	6.2	6.2				6.0	5.0	4.0
	3083	6.5	6.3	6.0	6.0	5.4	5.9	5.8	6.4	6.2						
	4381	7.1	6.9	7.2	7.1	7.3	7.2	7.4	7.2	7.4						
	1786	7.1	6.9	6.8	6.9	7.2	6.9	7.1	7.3	7.2						
	1787	7.2	7.4	7.3	7.5	6.9	6.9	7.2	7.1	7.2						
	0025	7.3	7.1	7.2	7.4	7.2	7.1	7.4	7.2	7.1						
	4375	6.9	7.2	7.1	7.2	7.3	7.1	7.4	7.4	7.3						
	1782	6.5	6.8	6.7	6.4	6.3	6.1	6.7	6.6	6.9						
BOD	1175	<2	<2	2.5	2.0	2.5	1.8	1.5	1.5	1.3				2.0	3.0	3.0
	3083	<2	<2	<2	1.5	2.0	1.5	1.3	1.7	1.5						
	4381	2.4	2.8	2.7	2.6	2.7	2.8	2.6	2.8	2.9						
	1786	2.4	2.6	2.7	2.8	2.8	2.7	2.8	2.6	2.8						
	1787	2.6	2.4	2.5	2.6	2.8	2.7	2.8	2.9	2.8						
	0025	2.6	2.6	2.4	2.8	2.9	2.6	2.6	2.4	2.6						
	4375	2.4	2.6	2.5	2.6	2.8	2.6	2.6	2.6	2.8						
	1782	2.8	2.6	2.8	2.7	2.9	2.7	2.6	2.8	2.7						
Total Coliform	1175	792	870	914	659	830	866	722	866	659				50	500	5000
	3083	1120	1203	1300	602	550	617	816	921	727						
	4381	120	120	120	120	120	399	342.8	329	277						
	1786	120	150	150	150	120	560	439	403	385						
	1787	120	75	64	75	75	395	275	196	339						
	0025	75	64	75	120	120	423	367	317	274						
	4375	75	75	120	150	120	505	412	395	290						
	1782	150	120	150	120	120	368	328.2	293	277						

Fecal Coliform	1175	189	214	212	170	256	203	312	289	158				---	500	---
	3083	362	343	400	119	281	333	298	356	298						
	4381	3	3	3	3	3	11.9	10.3	11.5	13.3						
	1786	3	3	3	3	3	49.8	15.6	13.4	15.6						
	1787	3	3	3	3	3	30.7	14.2	12.5	13.5						
	0025	3	3	3	3	3	37.5	25.3	18.5	16.4						
	4375	3	3	3	3	3	18.9	15.6	13.7	13.5						
	1782	3	3	3	3	3	46.6	24.4	19.6	9.2						
TDS	1175	432	598	682	641	842	846	752	321	263				500 - 2000		
	3083	412	426	412	469	426	443	412	399	269						
	4381	484	502	498	498	540	510	440	490	504						
	1786	510	541	552	510	520	486	502	460	488						
	1787	470	518	510	470	576	448	410	442	410						
	0025	440	548	480	484	540	470	440	370	376						
	4375	468	510	524	506	512	470	420	298	318						
	1782	10400	9670	16980	18900	20100	17800	8460	9100	11900						

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, 2022 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, 2022

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	7.9	7.2	7.8	7.8	7.2	7.9	7.3	7.4				6.0 – 8.5		6.0 – 9.0
	1174	7.8	7.9	7.5	7.8	7.8	6.9	7.4	7.2	6.9						
	4388	7.6	7.6	7.6	7.4	7.2	6.8	7.2	7.2	7.4						
	4389	7.2	7.2	7.0	7.2	7.0	7.0	6.9	6.7	7.2						
DO	1785	6.5	6.1	5.8	5.2	4.5	5.0	5.6	6.2	5.4				6.0	5.0	4.0
	1174	6.2	6.4	5.9	5.4	4.9	5.7	5.4	6.1	6.1						
	4388	6.1	5.8	5.5	5.1	5.1	5.6	4.8	6.0	6.1						
	4389	5.3	5.5	5.6	5.3	4.6	5.7	4.4	6.2	5.9						
BOD	1785	2.7	2.5	2.2	3.5	3.7	2.8	2.0	1.8	1.8				2.0	3.0	3.0
	1174	2.2	2.0	2.8	3.3	3.3	2.5	1.8	2.0	2.2						
	4388	3	2.7	2.2	3.5	3.3	2.3	2.0	1.8	1.7						
	4389	3.2	2.8	2.5	3.5	3.3	2.5	2.8	2.2	2.0						

Total Coliform	1785	1011	980	914	980	1553	1733	1553	689	727				50	500	5000
	1174	1203	1300	1203	1203	1414	1203	1414	1120	866						
	4388	1046	1203	1300	866	830	1553	1414	1046	1203						
	4389	1203	1046	1203	1046	1414	1120	1733	1414	1120						
Fecal Coliform	1785	510	530	333	219	389	412	358	190	182				---	500	---
	1174	169	173	224	289	204	155	243	293	266						
	4388	416	412	343	258	272	352	320	204	220						
	4389	149	155	279	354	437	376	549	472	344						
TDS	1785	502	792	524	666	1046	884	1096	287	302				500 - 2000		
	1174	723	792	810	692	682	684	894	336	257						
	4388	968	842	689	742	743	699	990	402	267						
	4389	843	823	796	746	832	745	994	185	266						
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, 2022 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, 2022

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	4351	7.48	7.15	8.10	8.17	8.32	7.99	7.88	8.36	8.06				6.0 – 8.5		6.0 – 9.0
	1448	7.11	7.09	7.88	7.92	8.66	7.55	7.97	8.13	7.98						
	4346	8.31	7.24	8.18	8.26	7.18	8.37	7.27	8.40	7.24						
	4347	7.55	7.36	8.14	8.13	7.78	8.01	7.19	8.27	7.38						
DO	4351	7.1	8.3	5.5	6.5	6.2	5.6	6	6.2	6.0				6.0	5.0	4.0
	1448	7.7	7.4	7.0	6.2	7.2	7.4	6.2	6.3	6.2						
	4346	8.0	8.5	7.5	6.8	7.5	6.7	6.9	6.1	6.4						
	4347	7.5	7.0	7.0	6.3	7.0	6.1	5.5	6.0	8.0						
BOD	4351	1.9	1.3	2.7	2.3	2.4	2.6	2.2	2.0	1.2				2.0	3.0	3.0
	1448	1.7	1.8	2.0	1.7	2.1	2.8	2.2	1.9	1.3						
	4346	2.0	2.1	2.0	1.8	2.2	2.4	2.6	2.4	2.5						
	4347	2.5	2.5	2.5	2.2	2.5	1.8	2.8	2.5	2.8						
Total Coliform	4351	150	150	150	120	120	150	150	210	64				50	500	5000
	1448	120	150	120	93	150	150	120	150	240						
	4346	120	460	120	120	150	210	240	210	240						
	4347	150	1100	150	150	150	120	150	240	150						
Fecal Coliform	4351	15	9	15	15	7	11	7	9	14				----	500	----
	1448	9	15	9	4	7	9	4	7	23						
	4346	7	15	9	9	7	9	7	4	7						
	4347	15	20	15	15	9	7	7	7	7						
TDS	4351	188	220	240	268	259	223	135	125	145				500-2000		
	1448	194	196	200	238	210	211	120	166	165						
	4346	168	224	212	276	272	208	175	175	188						
	4347	242	228	248	288	258	218	174	164	170						

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, 2022 is as follows:

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

Month-wise data of water quality of river Kundu, 2022

Parameters	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
													Class A	Class B	Class C
pH	7.5	8.0	7.2	7.1	7.1	7.6	6.9	7.1	7.2				6.0 – 8.5		6.0 – 9.0
DO	6.3	6.5	6.0	5.1	4.0	4.8	4.4	5.7	6.1				6.0	5.0	4.0
BOD	3.4	2.7	2.8	3.7	3.2	2.7	2.5	2.0	2.0				2.0	3.0	3.0
Total Coliform	966	1203	1046	1733	1986	1300	1733	1986	1553				50	500	5000
Fecal Coliform	306	412	491	412	722	530	403	575	457				---	500	---
TDS	521	762	853	742	648	682	689	384	328				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.