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

Letter No.1282446/K(A2)/2020 Dated:23.06.2023

From
The Special Chief Secretary to Government,
MA&UD Department,
AP Secretariat, Velagapudi.

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, 2023 - 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 herewith enclose the Monthly Progress Report in the prescribed format for the month of May, 2023 for taking further necessary action.

Yours faithfully,

B. Satyanarayana

for Special Chief Secretary to Government

Copy to:
The Commissioner & Director of Municipal Administration, Mangalagiri.

National Mission for Clean Ganga
Format for submission of Monthly Progress Report for Month of May 2023 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 Plants:

- Existing STPs and Treatment Capacity (15 ULBs) : 612.95 MLD (49 Nos)
- Present Gap in Treatment Capacity in MLD : 890.25 MLD
- Quantity of Sewerage Treated : 499.40 MLD
- Capacity of under construction STP's (32 ULBs) : 450.17. MLD (58 STPs)
- Quantity of Reuse of Treated water : 166.83 MLD
- No of STPs Under Construction at APTIDCO Houses: 117.05 MLD (78 ULBs) (129 STPs) (0.20 MLD to 3.70 MLD)
- Gap after completion of above STPs : 323.03 MLD
- STPs sanctioned Under SBM 2.0 & Under Tender Process (below 1 lakh population) : 569.08 MLD (66 ULBs & 107 STPs)
- STPs sanctioned Under AMRUT 2.0 for Rs.1829.28 Crs by Government of India (DPRs under preparation) : 373.27 MLD (27 ULBs)

III (A) <u>Details of each existing STP in the State:</u>

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	38.00	Operational	Complied
2		Appughar	09/2010	25.00	25.00	Operational	Complied
3		Mudasarlova	04/2008	13.00	13.00	Operational	Complied
4		Narava	08/2001	54.00	54.00	Operational	Complied
5		Anakapalle	04/2018	15.00	15.00	Operational	Complied
6		Madinabagh	2018	2.00	2.00	Operational	Complied
7		Yathapalem Colonies	04/2008	2.50	2.50	Operational	Complied
8		Srinagar	04/2008	0.50	0.50	Operational	Complied
9		Karnavani palem	12/2019	5.00	0.0	Operational	Complied
10		Mantripalem	04/ 2008	1.00	1.00	Operational	Complied
11		Aganampudi	12/2015	6.00	6.00	Operational	Complied
12		Rathi Cheruvu	09/ 2019	2.00	2.00	Operational	Complied
13		Kommadi / Madhurawada	08/2018	4.00	4.00	Operational	Complied
14		Bakkannapalem	08/ 2011	1.00	1.00	Operational	Complied
15		Marikavalasa	12/ 2012	2.00	2.00	Operational	Complied
16		Vambay Colony	08/ 2011	3.00	3.00	Operational	Complied
17		YSR Nagar	08/ 2011	2.00	2.00	Operational	Complied
18		Boyapalem	08/ 2011	1.00	1.00	Operational	Complied
19		Narava	10/2022	54.00	15.00	Operational	Complied
20		Paradesipalem	08/2022	2.00	0.50	Operational	Complied
			Sub Total	**233.00**	**187.50**		

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
21	Rajamahendravaram	Hukumpeta	01/2009	**30.00**	**30.00**	Operational	Complied
22	Vijayawada	Ajith Singh Nagar-1	05/2011	40.00	40.00	Operational	Complied
23		Ajith Singh Nagar-2	05/2012	20.00	20.00	Operational	Complied
24		Ramalingeswar Nagar-1	06/2012	20.00	20.00	Operational	Complied
25		Ramalingeswar Nagar-2	10/2006	10.00	10.00	Operational	Complied
26		Autonagar -1	03/2005	10.00	10.00	Operational	Complied
27		Autonagar -2	12/2018	10.00	10.00	Operational	Complied
28		Jakkampudi	07/2017	20.00	20.00	Operational	Complied
			Sub Total	**130.00**	**130.00**		
29	Tirupathi	Thukivakam	09/.2018	**50.00**	**33.00**	Operational	Complied
30	Kadapa	Nanapally	08/2012	**20.00**	**10.00**	Under Rehabilitation	Foundation Work is in progress
31	Pulivendula	Rotarypuram	10/2022	**10.00**	**4.00**	Operational	Complied
32	Tadipatri	Gannevaripalle	10/2010	3.50	3.50	Operational	Complied
33			10/2010	8.00	8.00	Operational	Complied
			Sub Total	**11.50**	**11.50**		
34	Puttaparthy	1.Sai Nagar	07/2001	0.50	0.50	Operational	Complied
35		2. Gokulam	07/.2001	0.50	0.20	Operational	Complied
36		3. Prasanthi Gram	07/2001	0.50	0.0	Under Rehabilitation	-
			Sub Total	**1.50**	**0.70**		
37	Narsaraopeta	CPT Road	02/2018	**15.55**	**9.50**	Operational	Complied
38	Nellore	Janardhan Reddy Colony	-	5.00	5.00	Operational	Complied
39		Allepuram	-	55.00	55.00		
40		Drivers Colony	-	11.00	0.00	Operational	House Service

							Connections in Progress
			Sub Total	**71.00**	**60.00**		
41	Kurnool	Jammichettu	03/2019	0.80	0.80	Operational	Complied
42		Sankal Bagh	03/2019	0.80	0.80	Operational	Complied
43		Tungabhadra PumpHouse	03/2018	0.80	0.80	Operational	Complied
			Sub Total	**2.40**	**2.40**		
44	Tadepalli	Mahanadu-1	12/2018	0.20	0.20	Operational	Complied
45		Mahanadu-2	12/2018	0.20	0.20	Operational	Complied
				0.40	**0.40**		
46	Kondapalli	Security Colony	12/2021	0.80	0.40	Operational	Complied
47		Security Colony	01/2023	2.00	0.00	Under Trail Run	-
				2.80	**0.40**		
49	Yemmiganuru	Soganur Road	06/2022	**19.80**	**5.00**	Operational	Complied
49	Ongole	Koppolu	10/2022	**15.00**	**15.00**	Operational	-
	15	**Grand Total**		**612.95**	**499.40**		

III (B) <u>Details of Under Construction STPs in the State</u>:

S. No.	Location	Scheme Name	No. of STP	Capacity of the plant (in MLD)	Physical Progress in %	Completion Timeline	Status
1	Kakinada	AMRUT	1	5.00	73%	Aug - 2023	In Progress
2	Srikakulam	AMRUT	1	10.00	45%	-	Govt. have accorded permission for closure of contract
3	Vizianagaram	AMRUT	1	5.00	54%	-	The Government have accorded permission for closure of Contract vide G.O.Ms. No. 73 Dt: 01-06-2023
4	Rajamahendravaram	AMRUT	1	5.00	66%	Dec - 2023	In Progress

S. No.	Location	Scheme Name	No. of STP	Capacity of the plant (in MLD)	Physical Progress in %	Completion Timeline	Status
5	Eluru	AMRUT	1	5.00	99%	Aug 2023	In Progress
6	Bhima-varam	AMRUT	1	5.00	77%	Dec - 2023	In Progress
7	Tadepalli gudem	AMRUT	1	5.00	11%	Mar - 2024	In Progress
8	Machilipatnam	AMRUT	1	5.00	48%	-	The Government have accorded permission for closure of Contract vide G.O.Ms. No. 72 Dt: 01-06-2023
9	Gudivada	AMRUT	1	5.00	78%	Oct - 2023	In Progress
10	Vijayawada	JNNURM	1	20.00	94%	Aug - 2023	In Progress
11	Tenali	AMRUT	1	10.00	83%	Oct - 2023	In Progress
		14 FC	1	2.00	30%	-	Work stopped due to court case
12	Chilakaluripeta	AMRUT	1	5.00	30%	Mar -2024	In Progress
13	Kavali	AMRUT	1	15.00	94%	Sep-2023	In Progress
14	Nellore	HUDCO	1	20.00	85%	-	In Progress
			1	14.00	0%	-	Work grounded
15	Tirupati	Smart City	1	25.00	75%	Dec - 2023	In Progress
16	Srikalahasti	AMRUT	1	7.00	46%	Dec 2023	In Progress
17	Madanapalle	AMRUT	1	5.00	22%	March 2024	In Progress
18	Kadapa	AMRUT	1	20.00	3%	March-2024	In Progress
19	Anantapuramu	AMRUT	1	10.00	-	March-2024	Agreement Concluded work will be Grounded by July 2023
20	Dharmavaram	AMRUT	2	8.00	-	March-2024	Agreement Concluded

S. No.	Location	Scheme Name	No. of STP	Capacity of the plant (in MLD)	Physical Progress in %	Completion Timeline	Status
							work will be Grounded by July 2023
21	Guntakal	AMRUT	1	8.00	2%	-	Adminstra-tive Sanction accorded, Re-Tender floated & is under finalization
22	Kurnool	AMRUT	1	2.00	92%	Aug - 2023	In Progress
		AMRUT	1	10.00	25%	March - 2024	In Progress
23	Nandyal	AMRUT	1	10.00	41%	March - 2024	In Progress
24	Adoni	AMRUT	1	5.00	30%	March - 2024	In Progress
25	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 by July 2023
26	Pulivendula	PLAN	1	1.50	97%	Aug-2023	In Progress
			1	1.50	80%	Aug -2023	In Progress
			5	2.50 (0.50 MLD x 5 Nos)	40%	Aug-2023	In Progress
			1	0.02	5%	Aug-2023	In Progress
			1	0.07	5%	Aug-2023	In Progress
			1	0.08	5%	Aug-2023	In Progress
			1	0.10	5%	Aug-2023	In Progress
27	Rayachoti	PLAN	5	6.90	5%	Dec -2023	In Progress
			1	15.50	2%	Dec -2023	In Progress
28	Kanigiri	AIIB	1	6.00	2%	March - 2024	Site handed over, Designs under finalization

S. No.	Location	Scheme Name	No. of STP	Capacity of the plant (in MLD)	Physical Progress in %	Completion Timeline	Status
29	Sullurpet	AIIB	3	8.00	4%	March - 2024	Site handed over, Designs under finalization
30	Allagadda	AIIB	1	5.00	2%	March - 2024	Sites handed over, Designs under finalization. PMC to Clear designs.
31	Nandikotkur	AIIB	1	5.00	0 %	March - 2024	Site to be handed over
32	Madakasira	AIIB	1	5.00	2%	March - 2024	Sites handed over, Designs under finalization PMC to Clear designs.
33	Proddutur	PLAN	1	24.00	-	-	Agreement Concluded and work will be Grounded. Designs under finalization
	Grand Total		**58**	**450.17**			

III C) <u>Details of Under Construction STPs in APTIDCO Houses:</u>

Sl. No	Name of the ULB	Name of the Location	Capacity in MLD	Physical Progress in %	Completion Timeline
1	**2**	**3**	**4**	**5**	**6**
1	Srikakulam	Patrunivalasa	2.10	Completed	Under Trail Run
2	Vizianagaram	Saripalli	1.50	95%	Trail run to be taken up
3	GVMC	Satyanarayanapuram	1.50	87%	July -2023
4	GVMC	Parawada	0.50	70%	July -2023
5	Tadepalli Gudem	a. Kondruprolu-I	2.00	75%	July -2023
6		b. Kondruprolu-II	0.75	75%	July -2023
7	Palakollu	Penukulapadu	3.50	69%	July -2023

Sl. No	Name of the ULB	Name of the Location	Capacity in MLD	Physical Progress in %	Completion Timeline
8	Kavali	Maddurupadu	1.50	Completed	Under Trail Run
9	Atmakur	Nellorepalem	1.00	Completed	Under Trail Run
10	Gudur	Gandhinagar	3.70	Completed	Under Trail Run
11	Kurnool	Jagannadhagattu	0.50	90%	Aug -2023
12			0.50	90%	Aug -2023
13			1.00	90%	Aug -2023
14			1.50	90%	Aug -2023
15			2.00	90%	Aug -2023
16	Nandyal	SRBC Colony	1.00	90%	Aug -2023
17			1.00	95%	Aug -2023
18		Nandhamuri Nagar	1.00	60%	Aug -2023
19			1.00	60%	Aug -2023
20	Adhoni	Siriguppa Road	1.00	90%	Aug -2023
21			1.00	90%	Aug -2023
22	Peddapuram	Valuthimmapuram	2.00	95%	Aug -2023
23	Mandapeta	Gollapunta	3.00	80%	Aug -2023
24	Pithapuram	Gorsa	0.50	90%	Aug -2023
25	Ramachandrapuram	Kothuru (Ph-I)	0.75	80%	Aug -2023
26	Amalapuram	Bodasukurru	1.00	60%	Aug -2023
27	Rajamahendravaram	Bommuru-I	1.50	95%	Aug -2023
28	Rajamahendravaram	Torredu	0.50	76%	Aug -2023
29	Samalkota	Jaggamvaripeta	0.50	90%	Aug -2023
30	Samalkota	Uppuvarisatram	0.50	90%	Aug -2023
31	Tenali	Chinaravuru	0.60	Completed	Under Trail Run
32	Ponnuru	Nidubrolu	1.25		
33	Chilakaluripeta	Purushothapatnam	2.80		
34	GVMC	Dabbanda	0.90	90%	June -2023
35	GVMC	Aganampudi (Tri Junction)	1.10	65%	June -2023

Sl. No	Name of the ULB	Name of the Location	Capacity in MLD	Physical Progress in %	Completion Timeline
36	Vijayawada	Jakkampudi I (A)	0.90	90%	June -2023
37	Vijayawada	Jakkampudi II (B)	0.60	86%	June -2023
38	Vijayawada	Jakkampudi III (C)	0.90	88%	June -2023
39	Vijayawada	Jakkampudi IV (D)	0.90	88%	June -2023
40	Gudivada	Mallayapalem I	1.60	Completed	Under Trail Run
41	Gudivada	Mallayapalem II	2.70		
42	Machilipatnam	Gosangam II	0.50	85%	July -2023
43	Machilipatnam	Rudravaram II	0.70	80%	July -2023
44	Mangalagiri	RGK Colony -I	0.80	Completed	Under Trail Run
45	Guntur	Vengalayapalem I & II	1.50	95%	Sep -2023
46	Repalle	Repalle II	0.60	50%	Sep -2023
47	Piduguralla	Kondamodu II	1.30	80%	Sep -2023
48	Macherla	Gorrilamandhi-II	0.50	80%	Sep -2023
49	Srikalahasthi II	S.W. Hostel -II	0.90	95%	June -2023
50	Chittoor	Murukumbattu -II	1.30	96%	June -2023
51	Puttur	Nandimangalam -II	0.20	95%	June -2023
52	Punganur	Ethuru -II	0.70	95%	June -2023
53	Madanapalli	Venkappakota -II	0.90	95%	June -2023
54	Srikalahasthi I	Rajiv Nagar -I	1.00	95%	June -2023
55	Kakinada	Kakinada(Paralovapeta)	1.50	30%	Aug -2023
56	Rajahmundry	Bommuru-II	1.50	36%	Aug -2023
57		Namavaram	0.75	46%	Aug -2023
58	Ramachandrapuram	KothuruIII	1.00	30%	Aug -2023
59	Naidupeta-II	Biradawada	0.90	85%	Aug -2023
60	Sullurupeta-II	Mannrupoluru	0.80	85%	Aug -2023
61	Venkatagiri-II	Chevireddypalli	0.80	85%	Aug -2023
62	Nellore	Akkacheruvupadu-II	1.60	87%	Aug -2023
63	Nellore	Kallurupalli-II	1.10	87%	Aug -2023
64	Nellore	Kondlapudi II&III	1.20	87%	Aug -2023

Sl. No	Name of the ULB	Name of the Location	Capacity in MLD	Physical Progress in %	Completion Timeline
65	Kandukur	Uppucheruvu-I	1.40	70%	Aug -2023
66	Markapur	Pedanagulavaram Road -I	0.50	39%	Aug -2023
67	Vizianagaram	Sonia nagar	0.50	90%	June - 2023
68	Nellimarla	Nellimarla	0.30	90%	June - 2023
69	Rajam	Kancharam	0.20	60%	June - 2023
70	Amadalavalasa	Byrsastrulla-pet	0.30	90%	June - 2023
71	Bobbili	Bobbili	0.80	77%	June - 2023
72	Saluru	Saluru	0.60	74%	June - 2023
73	Parvathipuram	Parvathipuram	0.40	75%	June - 2023
74	Tanuku	Indiramma Colony	0.20	Designs approved & work not at started. Notices issued to the agency to start the work.	-
75	Tanuku	BalaBalaji	0.30		
76	Jangareddygudem	Markandeyapuram -II	0.40	Designs approved & work not at started. Notices issued to the agency to start the work.	-
77	Nidadavolu	Tirugudem -II	0.50	Designs approved & work not at started. Notices issued to the agency to start the work.	-
78	Kovvuru	Pedathallapunta -II	0.30	Designs approved & work not at started. Notices	-

Sl. No	Name of the ULB	Name of the Location	Capacity in MLD	Physical Progress in %	Completion Timeline
				issued to the agency to start the work.	
79	Eluru	Ponangi road	2.50	Designs approved & work not at started. Notices issued to the agency to start the work.	-
80	Eluru	Kotturu road	0.20		
81	Vinukonda	Vellaturu road II	0.70	Designs approved & work not at started. Notices issued to the agency to start the work.	-
82	Kanigiri	Chakirala -III	0.50	Designs approved & work not at started. Notices issued to the agency to start the work.	-
83	Giddaluru	Modempalli -III	0.60	Designs approved & work not at started. Notices issued to the agency to start the work.	-
84	Addanki	Singarakonda -III	0.50	Designs approved & work not at started. Notices issued to the agency	-

Sl. No	Name of the ULB	Name of the Location	Capacity in MLD	Physical Progress in %	Completion Timeline
				to start the work.	
85	Nuziveedu	M.R. Apparao colony II	1.30	Designs approved & work not at started. Notices issued to the agency to start the work.	-
86	Tiruvuru	PT Kotturu I	0.40	Designs approved & work not at started. Notices issued to the agency to start the work.	-
87		PT Kotturu II	0.40		-
88	Jaggaiahpeta	Gurukulapathasala II	1.60	Designs approved & work not at started. Notices issued to the agency to start the work.	-
89	Nandigama	Hanumanthupalem II	0.20	Designs approved & work not at started. Notices issued to the agency to start the work.	-
90	Vuyyuru	Gemini School -II	0.90	Designs approved & work not at started. Notices issued to the agency to start the work.	-
91	Vuyyuru	Gandigunta -II	0.30		
92	Vuyyuru	Raghava estates -II	0.10		

Sl. No	Name of the ULB	Name of the Location	Capacity in MLD	Physical Progress in %	Completion Timeline
93	Adavitakkilapadu (Guntur)	Adavitakkilapadu	2.00	Completed	Under Trail Run
94	Kadapa	Chinnachowk -I	1.00	65%	Aug - 2023
95	Kadapa	Chalamareddypalli -II	1.00	62%	Aug - 2023
96	Jammalamadugu	Gudemcheruvu -II	1.00	48%	Aug - 2023
97	Rayachoti	Sibyala -II	0.50	47%	Aug - 2023
98	Yerraguntla	Yerraguntla road -II	1.00	62%	Aug - 2023
99	Nandyal	Alyyalurimitta	1.00	42%	Aug - 2023
100	Allagadda	Chinthakuntla Village-III	0.60	42%	Aug - 2023
101	Tadipatri I &II	Gannavaripalli -I&II	2.75	33%	Sep - 2023
102	Dharmavaram	Regatipalli-II	0.75	56%	Sep - 2023
103	Hindupur	Kotipi-II	0.70	55%	Sep - 2023
104	Kadiri	Hindupur road-II	0.60	57%	Sep - 2023
105	Puttaparthi	Karnataka nagepalli-II	0.25	46%	Sep - 2023
106	Ananthapur	Pandameru-3	1.25	55%	Sep - 2023
107	Guntakal	Dhonimukkala-3	1.25	55%	Sep - 2023
108	Raydurgam	Mallapuram-3	0.60	55%	Sep - 2023
109	Ichapuram	Ichapuram	0.10	10%	Sep - 2023
110	Palasa	Palasa	0.40	15%	Sep - 2023
111	GVMC	Appikonda	0.40	20%	Sep - 2023
112	GVMC	Mulagada	0.20	15%	Sep - 2023
113	GVMC	Nadipur	0.50	15%	Sep - 2023
114	GVMC	Sangivalasa	0.30	15%	Sep - 2023
115	GVMC	Kondakoppaka	0.20	15%	Sep - 2023
116	GVMC	Sirasapalli	0.30	60%	Aug- 2023
117	GVMC	AtchauLova-1	1.00	60%	Aug- 2023
118	GVMC	AtchauLova-2	1.00	60%	Aug- 2023
119	Yelamanchili	Yelamanchili	0.20	66%	Aug- 2023
120	Narsipatnam	Narsipatnam-1	0.60	57%	Aug- 2023
121		Narsipatnam-2	0.30	60%	Aug- 2023

Sl. No	Name of the ULB	Name of the Location	Capacity in MLD	Physical Progress in %	Completion Timeline
122	CRDA	Ananthavaram	0.20	95%	June - 2023
123		Dondapadu	0.50	95%	June - 2023
124		Thulluru	0.20	95%	June - 2023
125		Manadadam	0.20	95%	June - 2023
126		Inavolu	0.30	95%	June - 2023
127		Nowluru	0.30	95%	June - 2023
128		Penumaka	0.30	95%	June - 2023
129		Nidamaruru	0.30	95%	June – 2023
			117.05		

III D) <u>STATUS OF STPs UNDER RIVER STRETCHES</u>

- Central Pollution Control Board had newly identified 3 Nos. Polluted River Stretches i.e., Gosthani , Upputeru and Vasishta in Andhra Pradesh and also delisted 5 Polluted River Stretches, previously listed out.
- The BOD levels in River Vasishta & Upputeru are below 3.0 mg/L only. Therefore, the said Vasishta & Upputeru River Stretches have to be delisted now from the list of Polluted River Stretches in Andhra Pradesh.
- With regard to Gosthani River Stretch, the APPCB has been addressed to obtain the details of locations of the exact River Stretch to instruct concerned for preparation of Action Plan and to submit for further necessary action.

III E) <u>Status of STPs & NSTPs in Below 1 Lakh Population ULBs:</u>

State Level Technical Committee and State High Power Committee Approved the folloing Details regarding construction of STPs in below 1 lakh population cities on 07.06.2022 and 10.06.2022 respectively.

- Proposed STPs (below 1 lakh population) : 74 ULBs
- Proposed Capacity for the year 2040 : 659.00 MLD
- Total Project Cost : 1445 Cr

As mentioned above, CSAPs and DPRs for 74 ULBs were completed and submitted to SBM, Director and CPHEEO, Director – New Delhi upon approval from SLTC and SHPC for release of funds.

Note: In the above-mentioned 74 ULBs

a. Puttaparthi is having 3 existing STPs, therefore excluded as requested by the Municipal Commissioner vide Roc. No.20/2020-E1, Dt:18.08.2022.
b. 5 ULBs (Sullurpet, Nandikotkur, Allagadda, Madakasira and Kanigiri) are funded under Asian Infrastructure Investment Bank (AIIB) for construction of STPs.
c. Pulivendula and Rayachoti are funded under State Special Grants.
d. The remaining **66 ULBs** have been formed into **13 clusters** and tenders were invited on 04.11.2022 to establish STPs for **569 MLD** with due date of receipt of tender is on 17.01.2023. As bids were not received in the first call, second call tenders were floated on 2nd February, 2023. in response to the 2nd call tenders on 1st May 2023, no response was found.

Cluster-Wise Abstract for 66 ULBs:

Sl.No.	Description	No. of ULBs	Proposed STP capacities (MLD)	Cost of Total STPs (crores)
1	Cluster 1	06	45.381	76.074
2	Cluster 2	06	47.174	78.979
3	Cluster 3	07	45.650	75.401
4	Cluster 4	06	45.062	74.479
5	Cluster 5	06	50.050	82.864
6	Cluster 6	05	49.705	82.266
7	Cluster 7	04	35.944	59.385
8	Cluster 8	05	47.986	79.286
9	Cluster 9	04	31.100	51.623
10	Cluster 10	05	43.600	72.390
11	Cluster 11	04	41.600	68.640
12	Cluster 12	04	43.012	71.247
13	Cluster 13	04	42.816	71.078
	Total	**66**	**569.080**	**943.712**

Cluster 1:

District Name	Name of the ULB	Total No. of Projects (STP+NSTP)	Proposed Capacity (MLD)
Srikakulam	Amadalavalasa	STP 01	2.100
		STP 02	1.200
		STP 03	1.000
		STP 04	1.000
		NSTP 01	0.049
		NSTP 02	0.142
		NSTP 03	0.061
		NSTP 04	0.391
		NSTP 05	0.180
		NSTP 06	0.186
		NSTP 07	0.101
		NSTP 08	0.277
		NSTP 09	0.077
		NSTP 10	0.208
		NSTP 11	0.279
	Ichapuram	STP 01	4.800
		NSTP 01	0.778
		NSTP 02	0.371
		NSTP 03	0.451
	Palasa Kasibugga	STP 01	10.068
		NSTP 01	0.645
		NSTP 02	0.014
		NSTP 03	0.014
Manyam	Palakonda	STP 01	5.000
		STP 01	7.400
		NSTP 01	0.185
		NSTP 02	0.130
		NSTP 03	0.284
		NSTP 04	0.126
		NSTP 05	0.161
		NSTP 06	0.112
		NSTP 07	0.092
	Salur	STP 01	7.500
2	**6**	**33**	**45.381**

Cluster 2:

District Name	Name of the ULB	Total No. of Projects (STP+NSTP)	Proposed Capacity (MLD)
Vizianagaram	Rajam	STP 01	4.600
		STP 02	1.500
		STP 03	1.500
		NSTP 01	0.159
		NSTP 02	0.134
		NSTP 03	0.160
		NSTP 04	0.174
		NSTP 05	0.146
		NSTP 06	0.169
		NSTP 07	0.157
	Bobbili	STP 01	3.500
		STP 02	2.500
		STP 03	2.500
		NSTP 01	0.151
		NSTP 02	0.157
		NSTP 03	0.062
		NSTP 04	0.203
		NSTP 05	0.065
		NSTP 06	0.066
	Nellimarla	STP 01	4.000
Anakapalli	Narsipatnam	STP 01	4.800
		STP 02	4.500
		NSTP 01	0.182
		NSTP 02	0.244
		NSTP 03	0.105
		NSTP 04	0.071
	Yellamanchali	STP 01	4.000
		NSTP 01	0.295
		NSTP 02	0.131
		NSTP 03	0.441
		NSTP 04	0.102
		NSTP 05	0.109
		NSTP 06	0.161
		NSTP 07	0.500
		NSTP 08	0.138
		NSTP 09	0.301
		NSTP 10	0.091
		NSTP 11	0.400
Kakinada	Tuni	STP 01	8.700
3	**6**	**39**	**47.174**

Cluster 3:

District Name	Name of the ULB	Total No. of Projects (STP+NSTP)	Proposed Capacity (MLD)
Kakinada	Samalkot	STP 01	8.600
	Pithapuram	STP 01	1.100
		STP 02	1.000
		STP 03	1.000
		STP 04	1.000
		STP 05	1.000
		STP 06	1.000
		STP 07	1.000
		STP 08	1.000
	Peddapuram	STP 01	7.300
		NSTP	0.350
	Gollaprollu	STP 01	3.900
	Yeleswaram	STP 01	4.700
East Godavari	Nidadavole	STP 1	3.700
		STP 2	3.000
	Kovvur	STP 01	4.000
		STP 02	2.000
2	**7**	**17**	**45.650**

Cluster 4:

District Name	Name of the ULB	Total No. of Projects (STP+NSTP)	Proposed Capacity (MLD)
Konaseema	Amalapuram	STP 01	7.400
		NSTP 01	0.256
		NSTP 02	0.306
	Ramachandrapuram	STP 01	6.700
	Mandapeta	STP 01	4.700
		STP 02	4.000
	Mumidivaram	STP 01	4.100
West Godavari	Palacole	STP 01	5.100
		STP 02	4.000
	Narsapur	STP 01	4.600
		STP 02	3.900
2	**6**	**11**	**45.062**

Cluster 5:

District Name	Name of the ULB	Total No. of Projects (STP+NSTP)	Proposed Capacity (MLD)
West Godavari	Tanuku	STP 01	10.700
		NSTP 01	0.066
		NSTP 02	0.071
Eluru	Jangareddy Gudem	STP 01	5.00
		STP 02	4.50
	Nuzivid	STP 01	5.200
		STP 02	4.600
		NSTP 01	0.228
Krishna	Pedana	STP 01	2.400
		STP 02	1.600
		NSTP 01	0.345
	Vuyyuru	STP 01	4.000
		STP 02	3.000
NTR District	Tiruvuru	STP 01	5.000
		STP 02	2.800
		NSTP 01	0.150
		NSTP 02	0.150
		NSTP 03	0.240
4	**6**	**18**	**50.050**

Cluster 6:

District Name	Name of the ULB	Total No. of Projects (STP+NSTP)	Proposed Capacity (MLD)
NTR	Jaggiahpeta	STP 01	5.400
		STP 02	5.000
	Nandigama	STP 01	3.091
		STP 02	2.770
		STP 03	1.850
Palnadu	Macherla	STP 1	9.900
	Sattenapalli	STP 1	9.470
	Piduguralla	STP 1	5.900
		STP 2	5.2003
		NSTP 01	0.534
		NSTP 02	0.590
2	**5**	**11**	**49.705**

Cluster 7:

District Name	Name of the ULB	Total No. of Projects (STP+NSTP)	Proposed Capacity (MLD)
Palnadu	Vinukonda	STP 1	5.700
		STP 2	5.500
Prakasam	Markapur	STP 01	12.400
		NSTP 01	0.344
	Giddalur	STP 1	6.100
	Chimakurthy	STP 1	5.900
2	**4**	**6**	**35.944**

Cluster 8:

District Name	Name of the ULB	Total No. of Projects (STP+NSTP)	Proposed Capacity (MLD)
Baptla	Repalle	STP 1	5.600
		STP 2	2.400
	Bapatla	STP 01	3.000
		STP 02	5.000
		STP 03	2.180
	Chirala	STP 01	7.120
		STP 02	5.000
	Addanki	STP 01	7.000
		STP 02	2.400
Guntur	Ponnur	STP 01	7.800
		NSTP 01	0.486
2	**5**	**11**	**47.986**

Cluster 9:

District Name	Name of the ULB	Total No. of Projects (STP+NSTP)	Proposed Capacity (MLD)
Nandyal	Dhone	STP 1	11.300
	Atmakur	STP 01	7.200
		NSTP 01	0.586
		NSTP 02	0.181
		NSTP 03	0.253
Kurnool	Gudur	STP 1	3.800
YSR Kadapa	Jammalamadugu	STP 01	7.430
		NSTP 01	0.175
		NSTP 02	0.175
3	**4**	**9**	**31.100**

Cluster 10:

District Name	Name of the ULB	Total No. of Projects (STP+NSTP)	Proposed Capacity (MLD)
YSR Kadapa	Badvel	STP 01	13.900
		NSTP 01	0.243
		NSTP 02	0.654
		NSTP 03	0.447
	Mydukur	STP 01	8.100
	Yerraguntla	STP 01	3.000
		STP 02	2.200
		NSTP 01	0.111
SPS Nellore	Kandukur	STP 01	9.600
		NSTP 01	0.143
	Atmakur	STP 01	4.800
		NSTP 01	0.078
		NSTP 02	0.138
		NSTP 03	0.186
2	**5**	**14**	**43.600**

Cluster 11:

District Name	Name of the ULB	Total No. of Projects (STP+NSTP)	Proposed Capacity (MLD)
Ananthapur	Rayadurg	STP1	10.700
	Gooty	STP1	3.600
		STP2	4.400
	Kalyandurgam	STP 1	8.000
Sri Satya Sai	Kadiri	STP 1	14.900
2	**4**	**5**	**41.600**

Cluster 12:

District Name	Name of the ULB	Total No. of Projects (STP+NSTP)	Proposed Capacity (MLD)
Sri Balaji	Gudur	STP 01	7.400
		STP 02	6.500
		NSTP 01	0.106
	Venkatagiri	STP 01	9.580
		NSTP 01	0.338
	Naidupet	STP 01	7.900
		NSTP 01	0.788
Annamayya	Rajampeta	STP 01	10.400
2	**4**	**8**	**43.012**

Cluster 13:

District Name	Name of the ULB	Total No. of Projects (STP+NSTP)	Proposed Capacity (MLD)
Chittoor	Punganur	STP 1	5.000
		STP 2	4.200
		NSTP 1	0.507
		NSTP 2	0.157
	Palamaneru	STP 1	8.700
		NSTP 1	0.273
		NSTP 2	0.270
	Nagari	STP 01	7.000
		STP 02	6.100
	Puttur	STP 01	4.900
		STP 02	5.000
		NSTP 01	0.709
1	**4**	**12**	**42.816**

Instructions were issued to Municipal Commissioners to identify suitable lands required for construction of STPs & NSTPs. To speed up the Land Acquisition, necessary orders are also issued to the District Collectors to acquire the private land thro' Voluntary Acquisition (Sale) of land Scheme/Programme.

It is also decided to phase out the construction uniformly across the State with first phase budget outlay of Rs.50 Crs. Accorded administrative sanction vide G.O.Rt.No.227, dated 10.04.2023 of MA & UD Department to initiate Land Acquisition in 22 ULBs (Ac 59.65 cents), under Phase-I to construct STPs/NSTPs. The District Collectors were also requested to initiate the Land Acquisition process for AC. 59.65 cents and give advance possession of Ac.61.83 cents of Government lands and other department lands to ULBs.

Details of Industrial Pollution:

- No. of industries in the State: 9970 No's
- No. of water polluting industries in the State: 1448 No's
- Quantity of effluent generated from the industries in MLD: 4542.560

Effluent Break-Up Details:

- Once through Cooling water: 3826.13 MLD
- Trade effluents: 412.74 MLD
- Cooling tower/Boiler blow down: 254.152 MLD
- Domestic waste water: 49.579 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: 1094 No's
- Number of industrial units connected to CETP: 353 No's
  i. Existing: 1095 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: 9 No's with total capacity of 22.80 MLD

- **Status of compliance and operation of the CETPs:**

S.No.	Name and Address of the CETP &contact person	Design capaci (in MLD)	Current Operating capacity (in MLD)	Type and No. of member units	Compliance status
1.	Brandix India Apparel City Private Limited,APSEZ, Atchutapuram Pudimadaka Road, Visakhapatnam.	6	3.23	Textile park- 14 units (Marine outfall)	Complied
2.	Visakha Pharamcity (Formerly) M/s RamkyPharma City (India) Ltd, JN PharmaCity, Parawada Mandal, Visakhapatnam.	9.53	6.3	Pharmaceutical & Bulk drugs – 92 units (Marine outfall)	Complied
3.	Atchuthapuram Effluent Treatment Plant, Atchutapuram Visakhapatnam.	1.5	0.63	Pharmaceutical & Bulk drugs, other units – 44 (Marine outfall)	Complied

S.No.	Name and Address of the CETP &contact person	Design capaci (in MLD)	Current Operating capacity (in MLD)	Type and No. of member units	Compliance status
4.	Kondapally Envirotech Pvt. Ltd., (KEPL), IDA, Kondapalli(V), Ibrahimpatnam (M), Krishna District.	0.2	0.07	Pharmaceutical & Bulk drugs- 14 units (ZLD)	----
5.	Vijayawada Auto Cluster Development Company, Industrial Estate, Auto Nagar, Vijayawada.	0.2	0.114	Food beverages, Herbal pharma, Oil solvents & lubricants - 35 units (For Green belt development)	Complied
6.	Machilipatnam Imitation Jewellery Park Pvt. Ltd., Jewellery Park, Pothepalli, Machilipatnam.	0.07	0.0003	Electro Plating – 48 Units (ZLD)	Complied
7.	Nagari Dyeing Owners Association, Chinthalapatteda (V), Nagari (M), Chittoor District.	4	0.8	Manual Dyeing units - 90 units (After treatment , shell be discharged into open channel)	-----
8.	M/s. Andhra Pradesh Industrial Infrastructure Corporation Limited (APIIC), MPSEZ, Menakuru (V), Naidupet (M),SPSR Nellore	1.0	0.087	Pharmaceutical – 15 units (After treatment , recycled into Various Units)	Complied.
9.	M/s. APIIC Mega Food Park, CETP (Phase-I), Sy.No.11, Mallavalli (V), Bapulapadu (M), Krishna District.	0.3	0	1 Unit (ZLD)	It is under stabilization
	Total	**22.8**	**11.1613**		

IV. 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 98.25% and 100 % door to door collection in the state.
- Interim Action Plan is implemented to provide immediate solution to Solid Waste Management in all ULBs

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
- 1.21 crores Dustbins in three Colors (3 Bins to each house holds) have been distributed, on free of cost to ensure segregation at household level.

Waste to Energy Projects

- There are two Waste to Energy Plants established in Visakhapatnam & Guntur with 15 MW capacity each are functioning well, treating the Waste from 80 ULBs.
- For Disposal of combustible waste, 43 ULBs are mapped to 5 Cement Plants treating 355 TPD.

Wet Waste Processing Plants

- There are 29 Nos. Waste to Compost Plants covering 33 ULBs with a Processing Capacity of 1315 TPD
- There are 4 Bio-CNG Plants covering 8 ULBs with a Processing Capacity of 175 TPD.
- There are 9 Nos. Integrated Solid Waste Management Projects covering 10 ULB with a Processing capacity of 380 TPD.
- There are 72 Nos. Windrow Composting Units in 72 ULBs with a Processing Capacity of 1920 TPD of Wet Waste as an interim measure till the establishment of ISWM Projects/Waste to Compost Plants for which work awarded.
- Total 16 Waste to Compost/Bio-methanation Plants (14 Waste to Compost & 2 Bio-methanation) covering 16 ULBs are in progress with an installed capacity of 398 TPD.
- Work orders issued to 37 Agencies for establishment of 37 Integrated Solid Waste Management Projects Covering 51 ULBs. Out of these, 9 Plants are completed & functional, Covering 10 ULBs (ISWM Projects).
- Compost produced is being sold to Farmers by Processing Plant Developers & in ULB operated Plants, Compost is being used in Parks, Greenery in Central Medians, Avenue Plantation etc.
- CNG gas produced is being sold to the Commercial establishments like Hotels, Restaurants etc.,

Construction & Demolition Waste Processing Plants

- Construction & Demolition waste processing plants with an installed capacity of 100 TPD each are existing at Greater Visakhapatnam Municipal Corporation, Vijayawada Municipal Corporation and Tirupati Municipal Corporation & treating 100 TPD by each plant.
- Construction & Demolition Waste Crushing and Storage Units are established in Kakinada Municipal Corporation and Kurnool Municipal Corporation Treating 20 TPD.

Bio-Remediation of Legacy Waste

- 123 Dumpsites with an area of 1011 Acres are existing in the state.
- Out of 32 ULBs under the category of above 1 Lakh Population, Bio remediation of legacy waste was completed in Vijayawada & Tirupati Corporations.
- Work is under Progress in the remaining 30 ULBs.
- Work commissioned in all 91 ULBs under the category of below 1 Lakh Population.
- So far, 20.97 lakh Tons of Legacy Waste has been treated, out of 85.00 Lakh Tons quantified.
- No Dump sites of legacy waste are within 1 KM buffer of both sides of the rivers in the State.

Material Recovery facilities (MRFs)

- Material Recovery facilities have been established in all 123 ULBs & Processing the dry waste@ 945 TPD.
- Sorted out recyclables are being sold to Identified Recyclers by the 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	19.00	Existing WtC	11.00	90%	WtE Vizag	6.00	Established	2.00	90%
2	Ichchapuram	18.00	Existing WtC	11.00	90%	WtE Vizag	6.00	Established	1.00	90%
3	Palasa-kasibugga	28.00	Existing WtC	17.00	90%	WtE Vizag	10.00	Established	1.00	90%
4	Rajam	21.00	Existing WtC	12.00	90%	WtE Vizag	7.00	Established	2.00	90%
5	Bobbili	29.00	Existing WtC	16.00	90%	WtE Vizag	12.00	Established	1.00	90%
6	Salur	24.00	Existing WtC	16.00	90%	WtE Vizag	7.00	Established	1.00	90%
7	GVMC	918.00	Existing WtC	519.00	90%	WtE Vizag	353.00	Established	46.00	90%
8	Narsipatnam	30.00	Existing WtC	16.00	90%	WtE Vizag	12.00	Established	2.00	90%
9	Yellamanchili	23.00	Existing WtC	13.00	90%	WtE Vizag	8.00	Established	2.00	90%
10	Adoni	81.00	Existing CNG	23.00	90%	Connected to Cement Factories	14.00	Established	44.00	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
11	Nuzivid	29.00	Existing WtC	16.00	90%	WtE Guntur	10.00	Established	3.00	90%
12	Tiruvuru	17.00	Existing WtC	9.00	90%	WtE Guntur	6.00	Established	2.00	90%
13	Tenali	80.00	Existing WtC	44.00	90%	WtE Guntur	32.00	Established	4.00	90%
14	Sattenpalle	28.00	CNG - Pidugurala	13.00	90%	WtE Guntur	10.00	Established	5.00	90%
15	Narsaraopet	57.00	CNG - Pidugurala	13.00	90%	WtE Guntur	30.00	Established	14.00	90%
16	Piduguralla	31.00	Existing CNG	13.00	90%	WtE Guntur	12.00	Established	6.00	90%
17	Allagadda	20.00	Existing WtC	11.00	90%	Connected to Cement Factories	4.00	Established	5.00	90%
18	Rayadurgam	30.00	Existing WtC	18.00	90%	Connected to Cement Factories	4.00	Established	8.00	90%
19	Puttaparty	15.00	Existing WtC	8.00	90%	Connected to Cement Factories	3.00	Established	4.00	90%
20	Yemmiganur	46.00	CNG – Adoni	23.00	90%	Connected to Cement Factories	8.00	Established	15.00	90%
21	Anantapur	131.00	Windrow composting	81.00	90%	Connected to Cement Factories	20.00	Established	30.00	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
22	Atmakur K	22.00	Windrow composting	13.00	90%	Connected to Cement Factories	3.00	Established	6.00	90%
23	Badvel	35.00	ISWM Functional	20.00	90%	Connected to Cement Factories	6.00	Established	9.00	90%
24	Dhone	29.00	Windrow composting	18.00	90%	Connected to Cement Factories	5.00	Established	6.00	90%
25	Markapur	35.00	Existing WtC	19.00	90%	WtE Guntur	14.00	Established	2.00	90%
26	Giddalur	19.00	Existing WtC	11.00	90%	Connected to Cement Factories	3.00	Established	5.00	90%
27	Kanigiri	22.00	Existing WtC	12.00	90%	WtE Guntur	8.00	Established	2.00	90%
28	Chirala	42.00	Existing WtC	25.00	90%	WtE Guntur	15.00	Established	2.00	90%
29	Gudivada	58.00	Windrow composting	32.00	90%	WtE Guntur	23.00	Established	3.00	90%
30	Palamaneru	25.00	Existing WtC	15.00	90%	Connected to Cement Factories	3.00	Established	7.00	90%
31	Punganur	27.00	Existing WtC	16.00	90%	Connected to Cement Factories	4.00	Established	7.00	90%
32	Madanapalle	67.00	Existing CNG	28.00	90%	Connected to Cement Factories	11.00	Established	28.00	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
33	Sullurpet	22.00	Windrow composting	12.00	90%	WtE Guntur	7.00	Established	3.00	90%
34	Srikakulam	65.00	ISWM Functional	36.00	90%	WtE Vizag	26.00	Established	3.00	90%
35	Palakonda	16.00	Windrow composting	8.00	90%	WtE Vizag	6.00	Established	2.00	90%
36	Vizianagaram	119.00	ISWM Functional	65.00	90%	WtE Vizag	48.00	Established	6.00	90%
37	Parvathipuram	26.00	Clustered with Existing WtC, Bobbili	14.00	90%	WtE Vizag	9.00	Established	3.00	90%
38	Nellimarla	14.00	Windrow composting	8.00	90%	WtE Vizag	5.00	Established	1.00	90%
39	Gudur N	36.00	Windrow composting	19.00	90%	Connected to Cement Factories	13.00	Established	4.00	90%
40	Guntakal	62.00	Windrow composting	32.00	90%	Connected to Cement Factories	11.00	Established	19.00	90%
41	Jaggaiahpet	26.00	Windrow composting	14.00	90%	WtE Guntur	8.00	Established	4.00	90%
42	Jammalamadugu	22.00	Existing WtC	12.00	90%	Connected to Cement Factories	4.00	Established	6.00	90%
43	Pedana	16.00	Windrow composting	9.00	90%	WtE Guntur	5.00	Established	2.00	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
44	Vuyyuru	20.00	Windrow composting	11.00	90%	WtE Guntur	6.00	Established	3.00	90%
45	Guntur	363.00	Windrow composting	200.00	90%	WtE Guntur	145.00	Established	18.00	90%
46	Mangalagiri - Tadepalle	70.00	Windrow composting	38.00	90%	WtE Guntur	28.00	Established	4.00	90%
47	Ponnur	29.00	Existing WtC	16.00	90%	WtE Guntur	9.00	Established	4.00	90%
48	Chilakaluripet	49.00	Windrow composting	27.00	90%	WtE Guntur	20.00	Established	2.00	90%
49	Bapatla	34.00	Windrow composting	19.00	90%	WtE Guntur	10.00	Established	5.00	90%
50	Repalle	25.00	Windrow composting	13.00	90%	WtE Guntur	8.00	Established	4.00	90%
51	Vinukonda	30.00	ISWM Functional	16.00	90%	WtE Guntur	9.00	Established	5.00	90%
52	Macherla	28.00	Existing WtC	19.00	90%	WtE Guntur	8.00	Established	1.00	90%
53	Kadapa	167.00	Windrow composting	93.00	90%	Connected to Cement Factories	28.00	Established	46.00	90%
54	Dharmavaram	62.00	Windrow composting	35.00	90%	Connected to Cement Factories	11.00	Established	16.00	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
55	Kadiri	43.00	Windrow composting	24.00	90%	Connected to Cement Factories	7.00	Established	12.00	90%
56	Gooty	24.00	Windrow composting	13.00	90%	Connected to Cement Factories	4.00	Established	7.00	90%
57	Hindupur	74.00	Windrow composting	40.00	90%	Connected to Cement Factories	13.00	Established	21.00	90%
58	Kurnool	224.00	Windrow composting	128.00	90%	Connected to Cement Factories	36.00	Established	60.00	90%
59	Kalyandurgam	21.00	WtC Functional	11.00	90%	Connected to Cement Factories	4.00	Established	6.00	90%
60	Madakasira	12.00	Windrow composting	7.00	90%	Connected to Cement Factories	2.00	Established	3.00	90%
61	Machilipatnam	89.00	Windrow composting	49.00	90%	WtE Guntur	36.00	Established	4.00	90%
62	Mydukur	22.00	Windrow composting	12.00	90%	Connected to Cement Factories	3.00	Established	7.00	90%
63	Nandigama	22.00	Windrow composting	12.00	90%	WtE Guntur	7.00	Established	3.00	90%
64	Nandikotkur	23.00	Windrow composting	13.00	90%	Connected to Cement Factories	4.00	Established	6.00	90%
65	Gudur K	14.00	Windrow composting	8.00	90%	Connected to Cement Factories	2.00	Established	4.00	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
66	Nandyal	98.00	Windrow composting	59.00	90%	Connected to Cement Factories	16.00	Established	23.00	90%
67	Proddutur	79.00	Windrow composting	44.00	90%	Connected to Cement Factories	13.00	Established	22.00	90%
68	Pulivendula	32.00	Existing WtC	19.00	90%	Connected to Cement Factories	5.00	Established	8.00	90%
69	Rajahmundry	168.00	ISWM Functional	93.00	90%	WtE Vizag	67.00	Established	8.00	90%
70	Rajampeta	23.00	Windrow composting	13.00	90%	Connected to Cement Factories	4.00	Established	6.00	90%
71	Rayachoti	44.00	ISWM Functional	26.00	90%	Connected to Cement Factories	7.00	Established	11.00	90%
72	Tadipatri	53.00	Existing WtC	31.00	90%	Connected to Cement Factories	9.00	Established	13.00	90%
73	Tirupati	208.00	Existing CNG	110.00	90%	Connected to Cement Factories	35.00	Established	63.00	90%
74	Ongole	123.00	Windrow composting	68.00	90%	WtE Guntur	49.00	Established	6.00	90%
75	Chimakurthy	17.00	Windrow composting	9.00	90%	WtE Guntur	5.00	Established	3.00	90%
76	Addanki	20.00	Existing WtC	11.00	90%	WtE Guntur	6.00	Established	3.00	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
77	Kandukur	28.00	Windrow composting	14.00	90%	WtE Guntur	10.00	Established	4.00	90%
78	Kakinada	159.00	ISWM Functional	87.00	90%	WtE Vizag	64.00	Established	8.00	90%
79	Vijayawada	507.00	Existing WtC	279.00	90%	WtE Guntur	203.00	Established	25.00	90%
80	Gollaprolu	11.00	Windrow composting	6.00	90%	WtE Vizag	3.00	Established	2.00	90%
81	Pithapuram	25.00	Windrow composting	13.00	90%	WtE Vizag	8.00	Established	4.00	90%
82	Peddapuram	24.00	Windrow composting	13.00	90%	WtE Vizag	7.00	Established	4.00	90%
83	Samalkota	28.00	Windrow composting	16.00	90%	WtE Vizag	8.00	Established	4.00	90%
84	Yeleswaram	16.00	Windrow composting	9.00	90%	WtE Vizag	5.00	Established	2.00	90%
85	Ramachandrapuram	21.00	Windrow composting	12.00	90%	WtE Vizag	6.00	Established	3.00	90%
86	Mandapeta	26.00	Windrow composting	14.00	90%	WtE Vizag	8.00	Established	4.00	90%
87	Tuni	12.00	Clustered with Existing WtC, Narsipatnam	6.00	90%	WtE Vizag	4.00	Established	2.00	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
88	Mummidivaram	26.00	Windrow composting	14.00	90%	WtE Vizag	8.00	Established	4.00	90%
89	Amalapuram	26.00	Windrow composting	14.00	90%	WtE Vizag	8.00	Established	4.00	90%
90	Eluru	106.00	Windrow composting	59.00	90%	WtE Guntur	42.00	Established	5.00	90%
91	Tadepalligudem	51.00	Windrow composting	28.00	90%	WtE Guntur	20.00	Established	3.00	90%
92	Tanuku	44.00	Windrow composting	24.00	90%	WtE Guntur	13.00	Established	7.00	90%
93	Palakollu	33.00	Windrow composting	18.00	90%	WtE Guntur	10.00	Established	5.00	90%
94	Narsapuram	29.00	Windrow composting	16.00	90%	WtE Guntur	9.00	Established	4.00	90%
95	Bhimavaram	69.00	Windrow composting	38.00	90%	WtE Guntur	28.00	Established	3.00	90%
96	Nidadavole	21.00	Windrow composting	12.00	90%	WtE Guntur	6.00	Established	3.00	90%
97	Kovvur	19.00	Clustered with Rajahmundry ISWM	10.00	90%	WtE Vizag	6.00	Established	3.00	90%
98	Jangareddy Gudem	26.00	Windrow composting	14.00	90%	WtE Guntur	8.00	Established	4.00	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
99	Chittoor	92.00	Windrow composting	55.00	90%	Connected to Cement Factories	16.00	Established	21.00	90%
100	SriKalahasti	39.00	Windrow composting	23.00	90%	Connected to Cement Factories	7.00	Established	9.00	90%
101	Nagari	30.00	Windrow composting	17.00	90%	Connected to Cement Factories	6.00	Established	7.00	90%
102	Puttur	26.00	Windrow composting	15.00	90%	Connected to Cement Factories	5.00	Established	6.00	90%
103	Nellore	300.00	Windrow composting	165.00	90%	WtE Guntur	120.00	Established	15.00	90%
104	Venkatagiri	25.00	ISWM Functional	13.00	90%	WtE Guntur	8.00	Established	4.00	90%
105	Yerraguntla	17.00	Windrow composting	10.00	90%	Connected to Cement Factories	4.00	Established	3.00	90%
106	Naidupet	22.00	Windrow composting	12.00	90%	WtE Guntur	7.00	Established	3.00	90%
107	Atmakur N	15.00	Windrow composting	8.00	90%	WtE Guntur	5.00	Established	2.00	90%
108	Kavali	51.00	Windrow composting	28.00	90%	WtE Guntur	20.00	Established	3.00	90%
109	Kondapalli	21.00	ISWM Functional	12.00	90%	WtE Guntur	6.00	Established	3.00	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
110	Akiveedu	11.00	Windrow composting	6.00	90%	WtE Guntur	2.00	Established	3.00	90%
111	Dachepali	11.00	Clustered with Existing Bio CNG Piduguralla	6.00	90%	WtE Guntur	3.00	Established	2.00	90%
112	Gurazala	9.00	Clustered with Existing WtC, Macherla	5.00	90%	WtE Guntur	3.00	Established	1.00	90%
113	Darsi	12.00	Windrow composting	6.00	90%	WtE Guntur	4.00	Established	2.00	90%
114	Buchireddy Palem	12.00	Windrow composting	6.00	90%	WtE Guntur	4.00	Established	2.00	90%
115	Penukonda	10.00	Clustered with Existing WtC, Puttaparthi	5.00	90%	Connected to Cement Factories	2.00	Established	3.00	90%
116	Bethamcharla	14.00	Windrow composting	9.00	90%	Connected to Cement Factories	2.00	Established	3.00	90%
117	Kamlapuram	7.00	Windrow composting	4.00	90%	Connected to Cement Factories	1.00	Established	2.00	90%
118	Kupam	15.00	Windrow composting	9.00	90%	Connected to Cement Factories	3.00	Established	3.00	90%
119	Y.S.R. - Tadigadapa	29.00	Clustered with Existing WtC, Vijayawada	19.00	90%	WtE Guntur	9.00	Established	1.00	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
120	Chintalapudi	4.00	Windrow composting	2.00	90%	WtE Guntur	1.00	Established	1.00	90%
121	Podili	6.00	Clustered with Existing WtC, Kanigiri	3.00	90%	WtE Guntur	2.00	Established	1.00	90%
122	Alluru	9.00	Windrow composting	5.00	90%	WtE Guntur	3.00	Established	1.00	90%
123	B.KothaKota	6.00	Windrow composting	3.00	90%	Connected to Cement Factories	1.00	Established	2.00	90%

V. Bio-medical Waste Management:

- Total Bio-medical waste generation: 17.60 Tones/ day
- No. of Hospitals and Health Care Facilities: 13,900 Nos.

Status of Treatment Facility/ CBMWTF	:	Presently, there are 12 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.

VI. Hazardous Waste Management:

- Total Hazardous Waste generation is about: 44,752 Tones during the month of May, 2023 and cumulative quantity (April 2022 to May, 2023) is approximately 6,02,280.903. Tones.
- No of industries generating Hazardous Waste: 2748 Nos as per Hazardous Waste inventory, 2021 -22.
- **For the month of May, 2023, the Quantity of Hazardous Waste Treated & Disposed is as follows:**
    i) Utilizable waste is 25887.11 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 3713.4952 TPM (suitable for recycling /recovery of material viz. oil reclamation units, lead and zinc recovery units).
    iii) Incinerable waste is 406.27 TPM (not suitable for any recycling / reuse and having high calorific value i.e. > 2500 K cal/kg) and
    iv) Land fillable waste is 14564.995 TPM (not suitable for any recycling / reuse and having low calorific value i.e. < 2500 K cal/kg) is reaching and treated at the TSDFs in Visakhapatnam and Nellore.

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.

VII. Plastic Waste Management:

Total plastic waste generation	36620.101 TPA (As per Annual Report for the F.Y. 2021-22).
Implementation of Plastic Waste Management Rules, 2016 in Urban Local Bodies	• 131 Nos of Producers and 55 Nos of plastic waste processors are registered in the EPR Portal of CPCB. The total EPR Target for the registered PWP units is 6,52,742.6300 TPA • The State has issued G.O.Ms.No.349, dated 29.10.2018 for implementation of Plastic Waste Management Rules, 2016 in the ULBs. • The State has released G.O.Ms.No.81, dated 29.11.2022 for implementation of identified Banned Single Use Plastic (SUP) by designating enforcement authorities and stipulating penalties foe effective enforcement of PWM Rules. • 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. 43 ULBs have so far, tied up with nearby Cements Plants to send non-recyclable Plastic Waste. • The manufacture, sale& usage of plastic carry bags of below 120 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. • 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	8.0 Kms	14.5 Tons
2	Vijayawada	5.0 Kms	5.0 Tons
3	Tirupati	0.9Kms	0.9 Tons
4	Rajamahendhravaram	3.0 Kms	4.2 Tons
5	Kakinada	1.2 Kms	2.0 Tons
6	Amalapuram	1.0 Km	0.2 Tons

VIII. 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 Work Awarded : 26 (365 KLD)

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
Total		**75**	

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

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
1	Dhone	20	95 % of Work Completed Aug - 2023
2	Gooty	15	Nov -23
3	Jammalamadugu	15	Nov -23
4	Kadiri	25	Nov -23
5	Kalyanadurgam	10	Nov -23
6	Madakasira	5	August -23
7	Pulivendula	20	Nov -23

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
8	Puttaparthi	10	August -23
9	Rayachoti	25	Nov -23
10	Rayadurg	20	Nov -23
11	Allagadda	10	Nov -23
12	Atmakur (K)	15	August - 23
13	Badvel	25	April -24
14	Gudur (K)	5	Nov -23
15	Mydukuru	15	Nov -23
16	Nandikotkur	15	Nov -23
17	Yelamanchili	15	August - 23
18	Punganur	15	August - 23
19	Rajampeta	15	Nov -23
20	Yerraguntla	10	Oct - 23
21	Atmakur (N)	10	Nov -23
22	Giddalur	10	August -23
23	Gudur (TPT)	20	August -23
24	Kandukur	20	August - 23
25	Kanigiri	15	August -23
26	Markapur	20	95 % of Work Completed, Aug- 2023
27	Nagari	20	Nov -23
28	Naidupet	15	Nov -23
29	Puttur	15	April -24
30	Sullurpeta	15	Nov -23
31	Venkatagiri	15	Nov -23
32	Addanki	10	Nov -23
33	Bapatla	25	70% work Completed Nov -23
34	Chimakurthy	10	April -24
35	Chirala	25	75% work Completed Aug- 23
36	Macherla	15	Nov -23
37	Mangalagiri	25	April -24
38	Piduguralla	15	April -24
39	Ponnur	15	75% work Completed August -23
40	Repalle	15	Jun-23
41	Sattenapalli	15	August - 23
42	Salur	15	August - 23
43	Amalapuram	15	August - 23
44	Gollaprolu	5	August - 23
45	Kovvur	10	April -24
46	Mandapeta	15	August - 23
47	Mummidivaram	10	August - 23
48	Peddapuram	15	August -23
49	Pithapuram	15	Nov-23
50	Ramachandrapuram	15	Nov-23

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
51	Samalkota	15	Nov-23
52	Tuni	15	April -24
53	Yeleshwaram	10	April -24
54	Amudalavalasa	10	Nov-23
55	Parvathipuram	15	Aug-23
56	Ichapuram	10	Nov-23
57	Narsipatnam	20	Aug-23
58	Nellimarla	10	Nov- 23
59	Palakonda	10	August - 23
60	Palasa-Kasibugga	15	Nov-23
		905	

IX (C) Details of FSTPs Tenders floated:

S.No	Name of the ULB	Capacity of Plant (KLD)	Status
1.	Jangareddigudem	15	Work Awarded and expected date of Completion April - 2024
2.	Nidadavolu	15	
3.	Palacole	25	
4.	Pedana	10	
5.	Tadepalli	30	
6.	Tanuku	20	
7.	Vuyyuru	10	
8.	Jaggaiahpeta	15	
9.	Nandigama	15	
10.	Nuzividu	20	
11.	Tiruvuru	10	
12.	Akiveedu	10	
13.	Kondapalli	20	
14.	Dachepali	10	
15.	Gurazala	10	
16.	Darsi	10	
17.	Buchireddy Palem	10	
18.	Penukonda	10	
19.	Bethamcharla	10	
20.	Kamalapuram	10	
21.	Kuppam	15	
22.	Y.S.R. -Tadigadapa	25	
23.	Chintalapudi	10	
24.	Podili	10	
25.	Alluru	10	
26.	B.KothaKota	10	
Total		**365**	

IX. 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.

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

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

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

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

- APPCB has been monitoring the 8 (5+3) polluted river stretches at 31 (27+4) locations on monthly basis and the data is being uploaded in RRC Website ***https://rrc.ap.gov.in/Views/Monitoring.aspx*** every month. **(Annexure)**

XIII. Ground Water Regulation:

The main objective of the Ground Water and Audit Department is to monitor Ground Water regime, scientific Development and management of Ground Water resources in the state. In view of repeated droughts and alarming depletion in groundwater resources, emphasis is laid on efficient water conservation and management. One such measure is the enactment called Andhra Pradesh Water, Tree Act (APWALTA) in 2002. This act is a comprehensive act covering surface and groundwater resources. The act aims to promote water conservation, enhance tree cover and regulate the exploitation and use of ground and surface water. The act empowered the State Government to appoint a State Level Authority viz., Andhra Pradesh Water, Land and Tree Authority.

The Authority has the mandate to promote water conservation, enhance tree cover, regulate exploitation of ground and surface water, make regulations for the functioning of the authorities at District and Mandal Level (administrative units within Districts). The Groundwater Department is providing necessary technical inputs to the authority whenever requested for effective implementation of the Act.

- **Periodic Assessment of Groundwater Resources:**

Ground Water Resources Assessment is being carried out periodically under the guidelines of the State Level Committee (SLC) on Groundwater Assessment at State Level and under the overall supervision of the Central Level Expect Group based on the norms and guidelines of the GEC-2015 methodology. Such exercise has been taken up recently for the year 2021-22. The assessment involves comparing of annual extractable Groundwater Resources, total annual Groundwater extraction and the % of utilization with respect to annual extractable resource i.e. stage of development for all 18,380 villages, 670 mandals and 748 micro basins in the State. Out of all the states in the country only Andhra Pradesh and Telangana states are doing this assessment taking village as basic assessment unit rest of the states are doing the exercise taking Mandal as basic assessment unit. Based on the computation assessment units ie villages are categorized as Over Exploited where the groundwater extraction is > 100%, critical where the extraction between 90-100%, semi-critical where the extraction is 70- 90 % and Safe where the extraction is <70%. After every periodic assessment the Government come up with a notification listing over exploited villages and ban further exploitation of Groundwater and sand mining in these villages. The below given table gives the region wise classification of these villages in the State. That implies no new permissions to drill bore wells be entertained in these villages.

Number of mandals and villages notified as Over Exploited in Andhra Pradesh (as per GEC-2021-22).

Region	No. of Over Exploited Mandals	No. of Notified OE Villages
Costal	2	64
Rayalaseema	4	82
Total	**06**	**146**

XIV. Good Irrigation practices being adopted by the State:

The Ground Water and Water Audit Department is not directly involved in execution of the Water Conservation and rainwater harvesting in the state. However, the inferences drawn from the activities of the Ground Water and Water Audit Department are disseminated to the line departments, planners, stake holders for taking appropriate management measures for optimal utilization and sustainable development of Groundwater Resource.

- **Groundwater Quality:**

  The Ground Water and Water Audit Department collect Pre and Post monsoon water samples from the permanent monitoring stations and analyze the samples for major catians and anians as to assess irrigation suitability. The Rural Water Supply (RWS) department is having the appropriate laboratory equipment to analyze all parameters at regional level as the department is specialized in dealing with the issues related to drinking water Parameters. The Pollution Control Board possess the requisite equipment to analyze all the parameters to know the major pollution hotspots and to study the periodical variations, particularly in industrial area.

- **Groundwater Charging:**

  Not charging any Groundwater extraction charges as per present policies and legislations However the process of implementation of Groundwater extraction charges for industrial use is under process.

XV. Rain Water Harvestings:

XVI. Demarcation of Floodplain and removal of illegal encroachments:

XVII. Maintaining minimum e-flow of river:

XVIII. Plantation activities along the rivers:

XIX. Development of Biodiversity Parks:

The A.P. State Biodiversity Board have approved a vision plan and perspective plan in its meeting held on 28.07.2020 wherein it has agreed to set up Biodiversity Parks and Digital Museums in 7 districts out of 26 districts in the State to showcase the ecosystems, fauna and flora of Andhra Pradesh and to bring awareness and interest on the ecology and conservation of biodiversity among the general public especially for the student community.

Out of 7 parks proposed the Government have permitted the District Collector, YSR District, Kadapa to handed over 6 Acres of land at Chinnachowk Village, Kadapa Rural Mandal. The A.P. Greening & Urban Beautification Corporation is taking up the works of Biodiversity Park, remaining 6 parks are in process.

As a part of establishment of Biodiversity Digital Museums, the A.P. State Bio-Diversity Board have entered into an agreement with M/s. KELTRON, Tiruvanantapuram a Government of Kerala Undertaking for supply of Digital Kiosks

of 32" 2nos and 42" 1no to each digital museum which displays the world biodiversity, Indian Biodiversity and State Biodiversity in particular to that area in two languages i.e., English and Telugu. It also provides Play Station, Quiz and Other child interested games related to Ecology. Further, the A.P. State Biodiversity Board have also designed and ordered models and wall panels to display the Andhra Pradesh Ecology Systems in FRP made along with a 10 x 6 size display table and clear acrylic box and wall panels reflecting fauna and flora of A.P, Biodiversity acts printed on Vinyl with lamination, pasting of Vinyl to ACP panel and framing including computer design of 5' x 3' size of 10nos to each museum. All the 7 museums were located in Government buildings identified by concerned Municipal Corporations with in the city limits.

Conservation Activities:

1) **Home Herbal Garden:**

The National Medicinal Plant Board, New Delhi have sanctioned projects on conservation of Nurseries namely, Home Herbal Garden (HHG) and other one nursery activities. The APSBB have procured and raised nurseries for supply of plants as proposed by the NMPB to supply to the households abut 7,80,000 plants are proposed for 13,000 household beneficiaries in 13 districts of A.P. Each district is selected 10 Mandals and in each Mandal 10 villages and in each village 10 beneficiaries totalling to 13,000 beneficiaries as in 1st phase. Till now, 5,89,300 plants were distributed to the beneficiaries.

2) **Nurseries:**

The National Medicinal Plant Board, New Delhi have sanctioned nursery project to APSBB for raising 7,80,000 bag plant nurseries in 13 districts of Andhra Pradesh out of 13 districts nurseries raised in 11 districts, each nursery consisting of 60,000 bag plants which are to be distributed to the identified beneficiaries of the Grama Sabhas. About 1,50,000 nursery plants were distributed till now under the scheme.

3) **Other Nurseries:**

The APSBB have raised and procured bag plants of 1,14,000 with ABS funds available and out of the scheme 51,000 bag plants were distributed so far to the identified beneficiaries.

4) Awareness programmes:

The APSBB have created massive awareness programmes to the BMCs, Officials and general public (especially targeting student community) in the past 2.5 years through physical and virtual mode. Most of the programmes are virtually organised due to Covid pandemic and created awareness among all sections of public. It also taken up printing of leaflets, broachers, knowledge material and widely distributed through BMCs of all the levels and also by conducting awareness programmes for all stakeholders.

The APSBB have also produced documentary films under the series a window to the A.P. State Biodiversity, about 7 films on wetlands, dry lands, Mada forests, grass lands and Forest Ecology also on HHG, the experiences of biodiversity conservers in the society.

5) CAAP and ICAAP Activities:

As a part of Operationalization of BMCs the APSBB have designed a programme namely Core Activities Action Plan (CAAP) In all BMCs in the State by identifying 15 core activities and selected 551 Mandal Biodiversity co-ordinators out of 661 mandals and organized to open Local Biodiversity fund (LBF) accounts in BMCs on joint operation mode.

To make a model BMCs an Intensive Core Activities Action Plan (ICAAP) with 10 core activities in 78 Mandals of 661 Mandals by taking 20 villages in each Mandal to operate the ICAAP. The 78 Mandals were divided into 26 clusters consisting of 3 Mandals in each cluster to implement the ICAAP activities. In IACCP activities raising nurseries of 1 lakh bag plants in each cluster, establishment of Mandal Biodiversity Park/Raasi Vanam/ Nakshatra Vanam/ Butterfly Park/Smruthi Vanam etc., of 1 Acre in each Mandal. Promotion of Organic farming and land races, cultivation of Wild variety crops, Promotion of unique animal breed, Identification of BHS etc., are included in the ICAAP.

XX. 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	233.00	85.93
2	Rajamahendhravaram	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	10.00	2.50
	Total in MLD	**373.95**	**166.83**

XXI. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:

2 River stretches are identified as Modal Rivers. i.e. Under Category - IV River Tungabhadra & under Category – V River Krishna.

XXII. Status of Preparation of Action Plan by the 13 Coastal States:

XXIII. Regulation of Mining Activities in the State/UT:

XXIV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring.

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Water Quality Status Of Polluted River Stretches in Andhra Pradesh - 2023

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, 2023 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, 2023

Parameter	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Standard		
														Class A	Class B	Class C
pH	4367	8.12	7.89	8.4	7.83	8.30								6.0 - 8.5		6.0 – 9.0
	4359	8.3	8.34	8.01	8.15	8.35										
	0014	7.9	8.29	7.89	7.87	8.25										
	1218	7.91	8.3	7.89	7.99	7.30										
	2370	8.01	7.71	7.37	7.56	7.62										
	2371	8.07	7.61	7.48	7.55	7.71										
	1219	8.32	7.5	7.41	7.58	7.99										
	4365	8.25	8.31	8.42	8.02	7.47										
	4366	7.65	7.5	8.02	7.32	7.49										
	4358	7.92	7.62	7.57	7.49	7.13										
DO	4367	6.5	7.2	6.3	7.0	7.5								6.0	5.0	4.0
	4359	7.8	7.0	6.8	7.2	7.2										
	0014	6.8	7.2	7.4	7.2	7.5										
	1218	6.9	7.1	7.2	7.1	7.5										
	2370	7.1	7.0	6.8	6.9	7.0										
	2371	6.8	6.1	6.2	6.8	6.2										
	1219	6.9	6.6	6.4	7.0	6.5										
	4365	6.4	6.8	7.4	6.7	8.1										
	4366	6.3	6.5	7.2	6.8	7.2										
	4358	6.8	6.0	6.2	7.2	6.0										
BOD	4367	2	2.1	1.4	1.1	2								2.0	3.0	3.0
	4359	1.8	1.8	2.0	2.0	1.3										
	0014	1.6	2.0	2.4	1.2	2.0										
	1218	1.8	2.1	2.2	2.2	2										
	2370	2	2	2.2	2.2	2.2										
	2371	2.2	2.2	2.4	2.2	2.2										
	1219	2.2	2.2	2.2	2.2	2.4										
	4365	2	1.8	2.1	2.4	2.2										
	4366	2.2	2	2.6	2.1	2.3										
	4358	2.4	2.2	2.4	2.0	2.2										

Total Coliform	4367	150	150	120	210	150								50	500	5000
	4359	39	21	64	43	64										
	0014	120	120	150	150	210										
	1218	75	75	150	120	120										
	2370	210	150	210	120	210										
	2371	210	210	240	150	240										
	1219	120	93	120	240	460										
	4365	240	120	210	93	120										
	4366	210	240	240	210	240										
	4358	240	150	150	75	93										
Fecal Coliform	4367	7	4	3	9	9								---	500	---
	4359	9	3	4	3	4										
	0014	7	14	7	9	7										
	1218	9	9	9	4	7										
	2370	11	7	11	7	7										
	2371	4	20	14	7	11										
	1219	14	15	9	11	11										
	4365	21	14	11	9	9										
	4366	15	7	14	11	14										
	4358	7	7	9	4	7										
TDS	4367	168	141	94	142	90								500 - 2000		
	4359	63	50	44	62	62										
	0014	165	158	104	114	80										
	1218	168	160	108	152	410										
	2370	227	152	125	224	198										
	2371	180	146	128	110	125										
	1219	172	160	124	88	111										
	4365	168	124	96	122	11800										
	4366	21648	27456	30120	21450	11620										
	4358	196	23496	30332	30250	30115										

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 Downstream & GMC Balayogi bridge, Govalanka could be attributed to the intrusion of backwaters of Bay of Bengal.

2. River Krishna:

Andhra Pradesh Pollution Control Board is monitoring water quality of river Krishna at the following locations. Data pertaining to important parameters like, pH, Dissolved Oxygen, BOD, Total Coliform, Fecal Coliform and TDS for the year, 2023 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, 2023:

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1175	6.9	7.4	8.2	7.3	7.5								6.0 - 8.5		6.0 – 9.0
	3083	7.1	7.9	6.9	7.7	7.4										
	4381	7.89	7.80	7.88	8.10	7.56										
	1786	7.92	7.91	7.83	7.98	7.52										
	1787	7.83	7.94	7.96	8.06	7.61										
	0025	7.53	8.08	7.87	7.92	7.40										
	4375	7.60	7.74	7.67	7.94	8.05										
	1782	7.63	8.18	7.92	7.84	7.91										

DO	1175	5.6	5.7	5.4	5.5	5.4								6.0	5.0	4.0
	3083	5.8	5.8	5.6	5.4	5.3										
	4381	7.3	7.6	7.5	7.4	7.2										
	1786	7.4	7.3	7.6	7.7	7.3										
	1787	7.3	6.9	7.2	7.6	6.9										
	0025	7.1	7.3	7.4	7.2	7.8										
	4375	7.1	7.5	7.2	7.3	7.5										
	1782	6.9	6.4	6.3	6.4	6.1										
BOD	1175	2.0	1.8	2.0	1.2	1.0								2.0	3.0	3.0
	3083	1.5	1.5	1.7	0.8	0.7										
	4381	2.8	2.9	2.8	2.8	2.7										
	1786	2.8	2.8	2.7	2.6	2.8										
	1787	2.8	2.6	2.8	2.8	2.9										
	0025	2.6	2.6	2.7	2.6	2.6										
	4375	2.7	2.8	2.6	2.6	2.5										
	1782	2.7	2.7	2.8	2.8	2.8										
Total Coliform	1175	659	756	921	866	870								50	500	5000
	3083	689	921	816	921	721										
	4381	420	470	460	93	89										
	1786	470	470	240	64	75										
	1787	260	440	460	75	75										
	0025	470	460	460	64	75										
	4375	440	460	470	64	43										
	1782	120	380	210	43	43										

Fecal Coliform	1175	102	149	102	290	229								---	500	---
	3083	214	343	267	232	222										
	4381	14	14	15	4	7										
	1786	12	15	7	4	4										
	1787	14	15	21	7	9										
	0025	11	4	15	9	11										
	4375	11	14	14	9	4										
	1782	4	10	7	4	4										
TDS	1175	468	739	1069	1132	812								500 - 2000		
	3083	378	401	515	442	451										
	4381	594	576	588	552	517										
	1786	520	560	530	513	488										
	1787	424	432	464	460	480										
	0025	468	458	422	440	450										
	4375	464	476	478	454	460										
	1782	15600	16620	15100	16600	14010										

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, 2023 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, 2023

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	1785	7.7	7.3	7.6	8.0	7.9								6.0 – 8.5		6.0 – 9.0
	1174	7.5	7.4	8.1	7.7	7.9										
	4388	7.1	7.0	7.8	7.3	6.8										
	4389	7.2	7.2	7.0	7.5	7.6										
DO	1785	5.7	5.5	5.5	5.6	5.7								6.0	5.0	4.0
	1174	5.9	5.6	5.6	5.8	5.4										
	4388	5.4	5.4	5.6	5.3	5.0										
	4389	5.3	5.1	5.4	5.2	5.6										
BOD	1785	2.0	1.7	2.2	1.0	2.7								2.0	3.0	3.0
	1174	2.2	2.2	2.5	1.8	1.7										
	4388	1.8	1.5	2.5	1.3	2.8										
	4389	2.2	2.5	2.8	1.2	0.3										

Total Coliform	1785	1046	1300	1414	1553	1300								50	500	5000
	1174	1120	1046	1120	1046	1120										
	4388	1203	1046	1414	1300	1553										
	4389	1414	1733	1986	1733	1553										
Fecal Coliform	1785	615	320	343	408	479								---	500	---
	1174	479	437	403	420	290										
	4388	549	437	368	343	423										
	4389	525	575	629	689	420										
TDS	1785	820	866	813	644	886								500 - 2000		
	1174	887	991	950	1038	1056										
	4388	953	1165	1065	1052	1477										
	4389	796	930	1120	1032	470										
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, 2023 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, 2023

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	4351	8.2	8.31	8.23	7.66	8.26										
	1448	8.4	8.23	8.27	7.59	7.84								6.0 – 8.5		6.0 – 9.0
	4346	7.4	8.35	8.17	7.30	7.25										
	4347	8.34	8.5	8.14	7.12	7.40										
DO	4351	7.5	7	7.2	6.4	6.0										
	1448	6.4	6.6	7.3	6.2	6.4								6.0	5.0	4.0
	4346	7.6	6.5	6.4	7.2	6.6										
	4347	8	6.3	6.3	7.0	6.4										
BOD	4351	1.4	1.4	2.6	2.0	2.2										
	1448	1.2	1.8	2.4	2.7	1.9								2.0	3.0	3.0
	4346	2.6	1.3	2	1.9	2.4										
	4347	2.7	1.5	2.2	2.0	2.6										
Total Coliform	4351	210	240	240	210	150										
	1448	150	120	150	150	120								50	500	5000
	4346	240	210	150	120	150										
	4347	210	240	210	210	240										
Fecal Coliform	4351	20	11	14	9	9										
	1448	20	7	9	9	11								----	500	----
	4346	7	7	7	9	11										
	4347	7	15	11	15	14										
TDS	4351	213	176	222	190	320										
	1448	189	180	224	218	430								500-2000		
	4346	210	245	228	244	214										
	4347	219	250	230	252	212										

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, 2023 is as follows:

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

Month-wise data of water quality of river Kundu, 2023

Parameters	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
													Class A	Class B	Class C
pH	7.1	7.7	7.6	7.1	6.9								6.0 – 8.5		6.0 – 9.0
DO	5.5	5.2	5.5	5.2	5.5								6.0	5.0	4.0
BOD	2.3	2.5	2.8	3.3	3.3								2.0	3.0	3.0
Total Coliform	1290	1414	1733	1986	1553								50	500	5000
Fecal Coliform	501	649	525	593	510								---	500	---
TDS	626	742	851	834	592								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.															

CPCB identified three (3 No's) new rivers based on BOD value during year 2019 & 2021 (BOD > 3mg/L) In Andhra Pradesh identified following polluted river stretches.

S NO	ANDHRA PRADESH STATE	RIVER NAME	NWMP STN CODE	LOCATION	MAX BOD OBSERVED (mg/L)
1	**Priority IV (BOD between 6.1 and 10.0 mg/L)**	GOSTANI	4372	RIVER GOSTANI SAMPLE BEFORE CONFLUENCE WITH M/S DELTA PAPER MILL EFFLUENTS, VENDRA, PALAKODERU	8.6
2	**Priority V (BOD between 3.1 and 6.0 mg/L)**	UPPUTERU	4379	RIVER UPPUTERU BEFORE CONFLUENCE WITH SEA, AT CHINAGOLLAPALEM VILLAGE, KRUTHIVENNU (M)	3.4
3	**Priority I (BOD more than 30.0 mg/L)**	VASISHTA	4365	RIVER VASISHTA (GODAVARI) UPSTREAM OF NARASAPURAM TOWN BEFORE CONFLUENCE OF TOWN SEWAGE	5.9
4			4366	RIVER VASISHTA (GODAVARI) DOWNSTREAM OF NARASAPURAM TOWN AFTER CONFLUENCE OF TOWN SEWAGE	58.0

6. River Gostani:

Andhra Pradesh Pollution Control Board is monitoring water quality of river Gostani at the following locations. Data pertaining to important parameters like, pH, Dissolved Oxygen, BOD, Total Coliform, Fecal Coliform and TDS for the year, 2023 is as follows:

S. No.	Code	Location point
1	4372	River Gostani Sample before confluence with M/s Delta Paper Mill Effluents, Vendra, Palakoderu.

Month-wise data of water quality of river Gostani, 2023

Parameters	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
													Class A	Class B	Class C
pH	7.45	7.11	7.33	7.29	7.20								6.0 – 8.5		6.0 – 9.0
DO	0	2	4.3	3.2	5.6								6.0	5.0	4.0
BOD	12.2	11.4	8.4	11.8	2.5								2.0	3.0	3.0
Total Coliform	43	75	240	460	460								50	500	5000
Fecal Coliform	9	9	11	14	11								---	500	---
TDS	1050	2180	1530	1480	1158								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.

7. River Upputeru:

Andhra Pradesh Pollution Control Board is monitoring water quality of river Upputeru at the following locations. Data pertaining to important parameters like, pH, Dissolved Oxygen, BOD, Total Coliform, Fecal Coliform and TDS for the year, 2023 is as follows:

S. No.	Code	Location point
1	4379	River Upputeru before confluence with Sea at Chinnagollapalem (V), Kruthivennu (M)

Month-wise data of water quality of river Upputeru, 2023

Parameters	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
													Class A	Class B	Class C
pH	7.83	7.60	7.73	7.96	7.88								6.0 – 8.5		6.0 – 9.0
DO	6.6	6.7	6.2	5.8	6.1								6.0	5.0	4.0
BOD	2.9	2.9	2.8	2.7	2.6								2.0	3.0	3.0
Total Coliform	120	130	210	39	36								50	500	5000
Fecal Coliform	11	11	14	4	3								---	500	---
TDS	26170	31460	28300	34700	32800								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. High TDS values at River Upputeru before confluence with Sea at Chinnagollapalem (V), Kruthivennu (M) could be attributed due to the intrusion of backwaters of Bay of Bengal.															

8. River Vasishta:

Andhra Pradesh Pollution Control Board is monitoring water quality of river Vasishta at the following locations. Data pertaining to important parameters like, pH, Dissolved Oxygen, BOD, Total Coliform, Fecal Coliform and TDS for the year, 2023 is as follows:

S. No.	Code	Location point
1	4365	Upstream of Narasapuram town before confluence with sewage, West Godavari Dist.
2	4366	Downstream of Narasapuram town after confluence with town sewage, West Godavari Dist.

Month-wise data of water quality of river Vasishta, 2023

Parameters	Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	*Standard		
														Class A	Class B	Class C
pH	4365	8.25	8.31	8.42	8.02	7.47										
	4366	7.65	7.5	8.02	7.32	7.49								6.0 – 8.5		6.0 – 9.0
DO	4365	6.4	6.8	7.4	6.7	8.1								6.0	5.0	4.0
	4366	6.3	6.5	7.2	6.8	7.2										
BOD	4365	2	1.8	2.1	2.4	2.2								2.0	3.0	3.0
	4366	2.2	2	2.6	2.1	2.3										
Total Coliform	4365	240	120	210	93	120								50	500	5000
	4366	210	240	240	210	240										
Fecal Coliform	4365	21	14	11	9	9								----	500	----
	4366	15	7	14	11	14										
TDS	4365	168	124	96	122	11800								500-2000		
	4366	21648	27456	30120	21450	11620										

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.

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.