

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

Letter No.1282446/K(A2)/2020

Dated:27 .10.2023

From
The Special Chief Secretary to Government,
Government of Andhra Pradesh,
MA&UD Department,
AP Secretariat, Velagapudi

To
The Secretary,
Ministry of Jal Sakti,
MoHUA., Government of India,
New Delhi.(w.e. p. 2246 to 2310 cf)

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, 2023 - Furnished – Regarding.

Ref:- 1. Orders of the National Green Tribunal Principal Bench, New Delhi in OA No.673/2018, dated.24.09.2020.
2. From the CDMA, AP, Lr.Roc.No.12057/54/2020/Lsec, dt: 26.10.2023 through e-mail.

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In compliance to the directions of the Hon'ble National Green Tribunal Principal Bench, New Delhi in the reference 1st cited, I am herewith enclose the Monthly Progress Report in the prescribed format for the month of September, 2023, Which was received in the reference 2nd cited, for taking further necessary action.

Yours faithfully,

K. Sankar

for Special Chief Secretary to Government

Copy to:

The Commissioner & Director of Municipal Administration, AP.

National Mission for Clean Ganga
Format for submission of Monthly Progress Report for Month of September 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 (2011 Census) : @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 (33 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 : 318.39 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 : 373.27 MLD (26 ULBs)
(DPRs under preparation)
- STP Sanctioned under NRCP
in Rajahmundry (Tenders invited) : 50.60 MLD

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	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	-	STP was commissioned in December, 2019 & is now under non-utilisation due to delay in giving HSCs. Now, the defunct electro-mechanical equipment is being refurbished & being put to utilisation. (1500 HSCs given)
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

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
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		Paradesi-palem	08/2022	2.00	0.50	Operational	Complied
			Sub Total	233.00	187.50		
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	Nanepally	Aug 2012	20.00	10.00	Under Rehabilitation	STP is under rehabilitation in full scale & will be brought to operational by March, 2024
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		

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
34	Puttaparthi	Sai Nagar	07/2001	0.50	0.50	Operational	Complied
35		Gokulam	07/2001	0.50	0.20	Operational	Complied
36		Prasanthi Gram	07/2001	0.50	0.0	Under Rehabilitation	STP is under rehabilitation in full scale & will be brought to operational by March, 2024
			Sub Total	1.50	0.70		
37	Narsarao-peta	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	Operational	Complied
40		Drivers Colony	-	11.00	0.00	Operational	STP is brought to operation through interception of sewage & House Service Connections are simultaneously 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 Pump House	03/2018	0.80	0.80	Operational	Complied
			Sub Total	2.40	2.40		

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
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	Operational	-
				2.80	0.40		
48	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) 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	Kakinada	AMRUT	1	5.00	75%	March - 2024	In Progress
2	Srikakulam	AMRUT	1	10.00	45%	-	Govt. have accorded permission for closure of contract
3	Vizianagaram	AMRUT	1	5.00	54%	-	Govt. 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
5	Eluru	AMRUT	1	5.00	99%	Oct - 2023	Under Trail Run
6	Bhimavaram	AMRUT	1	5.00	77%	Dec - 2023	In Progress
7	Tadepalli gudem	AMRUT	1	5.00	15%	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

S. No.	Location	Scheme Name	No. of STP	Capacity of the plant (in MLD)	Physical Progress in %	Completion Timeline	Status
9	Gudivada	AMRUT	1	5.00	78%	Oct - 2023	In Progress
10	Vijayawada	JNNUR M	1	20.00	95%	Oct - 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	Chilakaluripet	AMRUT	1	5.00	30%	Mar -2024	In Progress
13	Kavali	AMRUT	1	15.00	94%	Dec -2023	In Progress
14	Nellore	HUDCO	1	20.00	85%	-	-
			1	14.00	0%	-	The site issue resolved work will be grounded
15	Tirupati	Smart City	1	25.00	75%	Jan - 2024	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	38%	March-2024	In Progress
19	Anantapuramu	AMRUT	1	10.00	-	March-2024	Agreement Concluded work will be Grounded
20	Dharmavaram	AMRUT	2	8.00	-	March-2024	Agreement Concluded work will be Grounded
21	Guntakal	AMRUT	1	8.00	2%	-	Administrative Sanction accorded, Re-Tenders under finalization
22	Kurnool	AMRUT	1	2.00	95%	Dec - 2023	In Progress
		AMRUT	1	10.00	25%	March-2024	In Progress
23	Nandyal	AMRUT	1	10.00	43%	March-2024	In Progress
24	Adoni	AMRUT	1	5.00	31%	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	-

S. No.	Location	Scheme Name	No. of STP	Capacity of the plant (in MLD)	Physical Progress in %	Completion Timeline	Status
			1	23.00	0%	March - 2024	The site issue resolved, Work will be Grounded
26	Pulivendula	PLAN	1	1.50	97%	Dec -2023	In Progress
			1	1.50	82%	Dec -2023	In Progress
			5	2.50 (0.50 MLD x 5 Nos)	70%	Dec -2023	In Progress
			1	0.02	60%	Nov -2023	These 4 STPs are being executed through Compact Unit STPs & 60% work completed & expected to be completed by November 2023
			1	0.07			
			1	0.08			
			1	0.10			
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	New site is identified & handing over of site is under process
29	Sullurpet	AIIB	3	8.00	4%	March - 2024	Sites 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) Details of Under Construction STPs in APTIDCO Houses:

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%	Under Trail run
3	GVMC	Satyanarayanapuram	1.50	87%	Nov - 2023
4	GVMC	Parawada	0.50	80%	Nov - 2023
5	Tadepalli Gudem	a. Kondruprolu-I	2.00	80%	Dec - 2023
6		b. Kondruprolu-II	0.75	80%	Dec - 2023
7	Palakollu	Penukulapadu	3.50	80%	Dec - 2023
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	92%	Dec - 2023
12			0.50	92%	Dec - 2023
13			1.00	94%	Dec - 2023
14			1.50	93%	Dec - 2023
15			2.00	93%	Dec - 2023
16	Nandyal	SRBC Colony	1.00	92%	Dec - 2023
17			1.00	95%	Dec - 2023
18		Nandhamuri Nagar	1.00	75%	Dec - 2023
19			1.00	75%	Dec - 2023
20	Adhoni	Siriguppa Road	1.00	90%	Dec - 2023
21			1.00	90%	Dec - 2023
22	Peddapuram	Valuthimmapuram	2.00	95%	Dec - 2023
23	Mandapeta	Gollapunta	3.00	85%	Dec - 2023
24	Pithapuram	Gorsa	0.50	90%	Dec - 2023
25	Ramachandrapuram	Kothuru (Ph-I)	0.75	80%	Dec - 2023

Sl. No	Name of the ULB	Name of the Location	Capacity in MLD	Physical Progress in %	Completion Timeline
26	Amalapuram	Bodasukurru	1.00	70%	Dec - 2023
27	Rajamahendravaram	Bommuru-I	1.50	95%	Dec - 2023
28	Rajamahendravaram	Torredu	0.50	85%	Dec - 2023
29	Samalkota	Jaggamvaripeta	0.50	90%	Dec - 2023
30	Samalkota	Uppuvarisatram	0.50	90%	Dec - 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%	Completed but Waiting for power Supply to take up Trial run.
35	GVMC	Aganampudi (Tri Junction)	1.10	80%	
36	Vijayawada	Jakkampudi I (A)	0.90	90%	Completed but Waiting for power Supply to take up Trial run.
37	Vijayawada	Jakkampudi II (B)	0.60	90%	
38	Vijayawada	Jakkampudi III (C)	0.90	90%	
39	Vijayawada	Jakkampudi IV (D)	0.90	90%	
40	Gudivada	Mallayapalem I	1.60	Completed	Under Trail Run
41	Gudivada	Mallayapalem II	2.70		
42	Machilipatnam	Gosangam II	0.50	89%	Dec - 2023
43	Machilipatnam	Rudravaram II	0.70	80%	Dec - 2023
44	Mangalagiri	RGK Colony -I	0.80	Completed	Under Trail Run
45	Guntur	Vengalayapalem I & II	1.50	95%	Nov - 2023
46	Repalle	Repalle II	0.60	50%	Nov - 2023
47	Piduguralla	Kondamodu II	1.30	80%	Nov - 2023
48	Macherla	Gorrilamandhi-II	0.50	80%	Nov - 2023
49	Srikalahasthi II	S.W. Hostel -II	0.90	95%	Completed but Waiting for power Supply to take up Trial run
50	Chittoor	Murukumbattu -II	1.30	96%	
51	Puttur	Nandimangalam -II	0.20	95%	
52	Punganur	Ethuru -II	0.70	95%	

Sl. No	Name of the ULB	Name of the Location	Capacity in MLD	Physical Progress in %	Completion Timeline
53	Madanapalli	Venkappakota -II	0.90	95%	Completed but Waiting for power Supply to take up Trial run
54	Srikalahasthi I	Rajiv Nagar -I	1.00	95%	
55	Kakinada	Kakinada(Paralovapeta)	1.50	60%	Oct-2023
56	Rajahmundry	Bommuru-II	1.50	60%	Oct-2023
57		Namavaram	0.75	64%	Oct-2023
58	Ramachandrapuram	KothuruIII	1.00	67%	Oct-2023
59	Naidupeta-II	Biradawada	0.90	90%	Dec-2023
60	Sullurupeta-II	Mannrupoluru	0.80	90%	Dec-2023
61	Venkatagiri-II	Chevireddypalli	0.80	90%	Dec-2023
62	Nellore	Akkacheruvupadu-II	1.60	90%	Dec-2023
63	Nellore	Kallurupalli-II	1.10	87%	Dec-2023
64	Nellore	Kondlapudi II&III	1.20	87%	Dec-2023
65	Kandukur	Uppucheruvu-I	1.40	90%	Jan - 2024
66	Markapur	Pedanagulavaram Road -I	0.50	40%	Jan - 2024
67	Vizianagaram	Sonia nagar	0.50	90%	Dec-2023
68	Nellimarla	Nellimarla	0.30	90%	Dec-2023
69	Rajam	Kancharam	0.20	60%	Dec-2023
70	Amadalavalasa	Byrsastrulla-pet	0.30	90%	Dec-2023
71	Bobbili	Bobbili	0.80	77%	Dec-2023
72	Saluru	Saluru	0.60	74%	Dec-2023
73	Parvathipuram	Parvathipuram	0.40	75%	Dec-2023
74	Tanuku	Indiramma Colony	0.20	5%	Feb- 2024
75	Tanuku	BalaBalaji	0.30	5%	Feb- 2024
76	Jangareddygudem	Markandeyapuram -II	0.40	5%	Feb- 2024
77	Nidadavolu	Tirugudem -II	0.50	5%	Feb- 2024

Sl. No	Name of the ULB	Name of the Location	Capacity in MLD	Physical Progress in %	Completion Timeline
78	Kovvuru	Pedathallapunta -II	0.30	5%	Feb- 2024
79	Eluru	Ponangi road	2.50	5%	Feb- 2024
80	Eluru	Kotturu road	0.20	5%	Feb- 2024
81	Vinukonda	Vellaturu road II	0.70	30%	Feb- 2024
82	Kanigiri	Chakirala -III	0.50	30%	Feb- 2024
83	Giddaluru	Modempalli -III	0.60	30%	Feb- 2024
84	Addanki	Singarakonda -III	0.50	30%	Feb- 2024
85	Nuziveedu	M.R. Apparao colony II	1.30	25%	Feb- 2024
86	Tiruvuru	PT Kotturu I	0.40	25%	Feb- 2024
87		PT Kotturu II	0.40	25%	Feb- 2024
88	Jaggaihpeta	Gurukulapathasala II	1.60	25%	Feb- 2024
89	Nandigama	Hanumanthupalem II	0.20	25%	Feb- 2024
90	Vuyyuru	Gemini School -II	0.90	25%	Feb- 2024
91	Vuyyuru	Gandigunta -II	0.30	25%	Feb- 2024
92	Vuyyuru	Raghava estates -II	0.10	25%	Feb- 2024
93	Adavitakkilapadu (Guntur)	Adavitakkilapadu	2.00	Completed	Under Trail Run
94	Kadapa	Chinnachowk -I	1.00	75%	Dec - 2023
95	Kadapa	Chalamareddypalli -II	1.00	75%	Dec - 2023
96	Jammalamadugu	Gudemcheruvu -II	1.00	73%	Dec - 2023
97	Rayachoti	Sibyala -II	0.50	68%	Dec - 2023
98	Yerraguntla	Yerraguntla road -II	1.00	75%	Dec - 2023
99	Nandyal	Alyyalurimitta	1.00	42%	Dec - 2023
100	Allagadda	Chinthakuntla Village-III	0.60	42%	Dec - 2023
101	Tadipatri I &II	Gannavaripalli -I&II	2.75	72%	Dec - 2023
102	Dharmavaram	Regatipalli-II	0.75	72%	Dec - 2023
103	Hindupur	Kotipi-II	0.70	72%	Dec - 2023
104	Kadiri	Hindupur road-II	0.60	74%	Dec - 2023
105	Puttaparthi	Karnataka nagepalli-II	0.25	60%	Dec - 2023

Sl. No	Name of the ULB	Name of the Location	Capacity in MLD	Physical Progress in %	Completion Timeline
106	Ananthapur	Pandameru-3	1.25	65%	Dec - 2023
107	Guntakal	Dhonimukkala-3	1.25	64%	Dec - 2023
108	Raydurgam	Mallapuram-3	0.60	65%	Dec - 2023
109	Ichapuram	Ichapuram	0.10	20%	Feb- 2024
110	Palasa	Palasa	0.40	25%	Feb- 2024
111	GVMC	Appikonda	0.40	37%	Feb- 2024
112	GVMC	Mulagada	0.20	30%	Feb- 2024
113	GVMC	Nadipur	0.50	35%	Feb- 2024
114	GVMC	Sangivalasa	0.30	32%	Feb- 2024
115	GVMC	Kondakoppaka	0.20	32%	Feb- 2024
116	GVMC	Sirasapalli	0.30	60%	Nov- 2023
117	GVMC	AtchauLova-1	1.00	60%	Nov- 2023
118	GVMC	AtchauLova-2	1.00	60%	Nov- 2023
119	Yelamanchili	Yelamanchili	0.20	70%	Nov- 2023
120	Narsipatnam	Narsipatnam-1	0.60	60%	Nov- 2023
121		Narsipatnam-2	0.30	60%	Nov- 2023
122	CRDA	Ananthavaram	0.20	Completed	Under Trail Run
123		Dondapadu	0.50	Completed	
124		Thulluru	0.20		
125		Mandadam	0.20		
126		Inavolu	0.30		
127		Nowluru	0.30		
128		Penumaka	0.30		
129		Nidamaru	0.30		
	Total		117.05		

III D) STATUS OF STPs UNDER RIVER STRETCHES

- Central Pollution Control Board has newly identified 3 Nos., Polluted River Stretches i.e., Gosthani, Upputeru & Vasishta in Andhra Pradesh and also delisted 5 Polluted River Stretches, previously listed out.
- It is submitted that the River stretches of Gosthani & Upputeru reported by Central Pollution Control Board are within Rural areas. The BOD Level of Gosthani River reported by CPCB was 8.6 and as per the Report of the APPCB, the present BOD levels of the said River for the months of August, 2023 & September, 2023 are 5.2 & 4.8 respectively, which are below admissible level.
- The BOD level of Upputeru River reported by CPCB is 3.4 & as per the Report of the APPCB, the BOD levels reported for the months of August, 2023 & September, 2023 are 2.3 & 2.5, which are below admissible level.
- Regarding Vashista River, it is submitted that the Stretches (Locations) are Upstream of Narsapuram Town before confluence of town sewage (Code 4365) and Down Stream of Narsapuram Town after confluence of town sewage (Code 4366). In both the said two locations, the BOD levels observed by Central Pollution Control Board before confluence of the Town Sewage at Upstream of the River is 5.9, which is below admissible level and after confluence of Town Sewage at Downstream of the River is 58, which is above admissible level. As per the Report given by the AP Pollution Control Board, Vijayawada for the month of September, 2023, the average BOD Levels for the last 3 months' taken at the two identified Stretches of River Vashista i.e., Upstream and Downstream are 2.7 and 2.6 respectively (Codes:4365 & 4366), which are within admissible levels.
- However, it is further submitted that one STP is taken up with a capacity of 8.00 MLD with an estimated cost of Rs.14.60 Crs under SBM 2.0 and Land Acquisitions is under process. However, the Central Pollution Control Board will also be requested for instructions for preparation of action plan and to submit for further necessary action, in view of the above position.

III E) Status of STPs & NSTPs in the ULBs with below 1 Lakh Population:

State Level Technical Committee and State High Power Committee have approved the construction of STPs in ULBs with below 1 lakh population:

(There are 74 ULBs with below One lakh population)

- Proposed STPs in : 66 ULBs
- Proposed Capacity for the year 2040 : 569.00 MLD
- Total Project Cost : Rs.1445 Cr

As mentioned above, City Sanitation Action Plans and DPRs for 66 ULBs were completed and submitted to Director, SBM & Director, CPHEEO, New Delhi for release of funds.

- In 5 other ULBs with below 1 lakh population (Sullurpet, Nandikotkur, Allagadda, Madakasira and Kanigiri), construction of STPs taken up with funding from Asian Infrastructure Investment Bank (AIIB).
- In another 2 ULBs with below 1 lakhs Population i.e., Pulivendula & Rayachoti,, construction of STPs taken up with State Special Grants.
- Puttaparthi, another ULB with below 1 lakh population is already having 3 existing STPs.

The above **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 was on 17.01.2023. As bids were not received in the first call, 2nd call tenders were floated on 2nd February, 2023. In response to the 2nd call tenders on 1st May 2023, no response came. Due to no response, proposals are revised in phased manner to sites wherever Govt. Land is available.

The Land Alienation for construction of certain STPs is completed by the District Collectors and advance possession of Ac 58.86 cents Government Land/Other Department Land is given in 28 ULBs for construction of STPs with a capacity of 131.57 MLD.

The Government accorded administrative sanction vide G.O.Rt.No.227, dated 10.04.2023 of MA & UD Department to initiate Land Acquisition in 21 ULBs under Phase-I to construct STPs/NSTPs. Land Acquisition Award passed by the District Collectors in 7 ULBs for construction of 8 STPs and Land Acquisition is in process in 14 ULBs for construction of 14 STPs for acquiring Ac 59.65 cents. Fresh tenders were floated in 8 Clusters for construction of 53 STPs with a capacity 131.37 MLD in 28 ULBs.

Cluster-Wise Abstract on STPs Tenders:

Sl. No.	Cluster no.	No. of ULBs	Total No. of Projects (STP+NSTP)	Proposed Capacity (MLD)	Land available (in Ac)	Project Cost Rs.in Cr
1	Cluster 01	6	19 (1-STP, 18-NSTPs)	7.58	3.38	13.428
2	Cluster 02	4	8 (6-STPs, 2-NSTPs)	18.04	8.62	29.792
3	Cluster 03	3	5 (4-STPs, 1-NSTP)	22.54	9.07	37.245
4	Cluster 04	3	3 (3-STPs)	14.10	4.17	23.265
5	Cluster 05	2	4 (1-STP, 3-NSTPs)	8.45	3.64	14.172
6	Cluster 06	4	6 (2-STPs, 4-NSTPs)	19.23	7.84	32.074
7	Cluster 07	2	3 (3-STPs)	22.90	8.51	37.785
8	Cluster 08	4	5 (2-STPs, 3-NSTPs)	18.53	7.48	30.813
Totals		28	53 (22-STPs & 31-NSTPs)	131.37	52.71	218.573

Cluster 1 Details:

District Name	Name of the ULB	Total No. of Projects (STP+NSTP)	Proposed Capacity (MLD)
Srikakulam	Amadalavalasa	NSTP 02	0.142
		NSTP 05	0.180
		NSTP 06	0.186
		NSTP 07	0.101
		NSTP 08	0.277
	Ichapuram	NSTP 01	0.778
		NSTP 02	0.371
	PalasaKasibugga	NSTP 03	0.014
Vizianagaram	Bobbili	STP 01	3.5
		NSTP 01	0.151

		NSTP 02	0.157
		NSTP 04	0.203
		NSTP 05	0.065
		NSTP 06	0.066
Anakapalli	Narsipatnam	NSTP 02	0.244
	Yellamanchali	NSTP 01	0.400
		NSTP 02	0.500
		NSTP 05	0.109
		NSTP 11	0.138
			7.58

Cluster 02 Details:

Kakinada	Pithapuram	STP 01	1.100
		STP 02	1.000
East Godavari	Nidadavole	STP 01	3.700
		STP 02	3.000
West Godavari	Palacole	STP 01	5.100
		STP 02	4.000
	Tanuku	NSTP 01	0.066
		NSTP 02	0.071
	Total		18.04

Cluster 03 Details:

NTR District	Tiruvuru	NSTP 03	0.240
Palnadu	Piduguralla	STP 01	5.900
		STP 02	5.200
	Vinukonda	STP 01	5.700
		STP 02	5.500
	Total		22.54

Cluster 04 Details:

Prakasam	Giddalur	STP 01	6.100
Baptla	Bapatla	STP 01	3.000
	Chirala	STP 02	5.000
Total			14.10

Cluster 05 Details:

Nandyal	Atmakur	NSTP 01	0.586
		NSTP 02	0.181
		NSTP 03	0.253
YSR Kadapa	Jammalamadugu	STP 01	7.430
Total			8.45

Cluster 06 Details:

YSR Kadapa	Badvel	NSTP 01	0.243
		NSTP 02	0.654
		NSTP 03	0.447
	Mydukur	STP 01	8.100
SPS Nellore	Kandukur	STP 01	9.600
	Atmakur	NSTP 03	0.186
	Total		19.23

Cluster 07 Details:

Ananthapur	Gooty	STP 01	3.600
		STP 02	4.400
Sri Satya Sai	Kadiri	STP 01	14.900
	Total		22.90

Cluster 08 Details:

Tirupati	Gudur	NSTP 01	0.106
	Venkatagiri	STP 01	9.580
	Naidupet	STP 01	7.900
		NSTP 01	0.788
Chittoor	Punganur	NSTP 02	0.157
	Total		18.53

Government has issued instructions 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.

The Finance Department has advised to phase out the construction uniformly across the State with first phase budget outlay of Rs.50 Crs.

IV. Details of Industrial Pollution:

- No. of Industries in the State: 9982 Nos.
- No. of water polluting industries in the State: 1453 Nos.
- Quantity of effluent generated from the industries in MLD: 4543.518

Effluent Break-Up Details:

- Once through Cooling water: 3826.13 MLD
- Trade effluents: 413.51 MLD
- Cooling tower/Boiler blow down: 254.159 MLD
- Domestic waste water: 49.719 MLD

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

- From the Cooling tower/Boiler blow down (about 5.6%).
- The remaining about 9.4% is generated from Trade effluent & Domestic discharges.
- APPCB is not permitting any industry to discharge industrial / trade effluents into the rivers.
- Number of industrial units having ETPs: 1099 No's
- Number of industrial units connected to CETP: 358 No's
 - i. Existing: 1099 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
 - ii. Proposed: 1 No's – 0.5 MLD
- The APIIC representative informed that proposed to construct 0.5 MLD CETP at Atchuthapuram SEZ, Visakhapatnam which is under tender stage. Earlier APIIC has proposed 1.5 MLD CETP.

Status of compliance and operation of the CETPs:

S. No	Name and Address of the CETP & contact person	Design Capacity (in MLD)	Current Operating capacity (in MLD)	Type and No. of member units	Compliance status
1.	Brandix India Apparel City Private Limited, APSEZ, Atchutapuram Pudimadaka Road, Visakhapatnam.	6	3.4	Textile park- 14 units (Marine outfall)	Complied
2.	Visakha Pharamcity (Formerly) M/s RamkyPharma City (India) Ltd, JN PharmaCity, Parawada Mandal, Visakhapatnam.	9.53	6.01	Pharmaceutical & Bulk drugs – 92 units (Marine outfall)	Complied
3.	Atchuthapuram Effluent Treatment Plant, Atchutapuram Visakhapatnam.	1.5	0.67	Pharmaceutical & Bulk drugs, other units – 44 (Marine outfall)	Complied
4.	Kondapally Envirotech Pvt. Ltd., (KEPL), IDA, Kondapalli(V), Ibrahimpatnam (M), Krishna District.	0.2	0.0489	Pharmaceutical & Bulk drugs- 14 units (ZLD) (Reused in cooling towers of CETP and in member industries)	Complied
5.	Vijayawada Auto Cluster Development Company, Industrial Estate, Auto Nagar, Vijayawada.	0.2	0.09	Food beverages, Herbal pharma, Oil solvents & lubricants - 35 units (For Green belt development)	Not Complied
6.	Machilipatnam Imitation Jewellery Park Pvt. Ltd., Jewellery Park, Potheipalli, Machilipatnam.	0.07	0.00027	Electro Plating – 48 Units (ZLD)	Complied
7.	Nagari Dyeing Owners Association, Chinthalapatteda (V), Nagari (M), Chittoor District.	4	0.48	Manual Dyeing units - 90 units (After treatment , shell be discharged into open channel)	Not Complied
8.	M/s. Andhra Pradesh Industrial Infrastructure Corporation Limited (APIIC), MPSEZ, Menakuru (V), Naidupet (M), SPSR Nellore	1.0	0.052	Pharmaceutical – 16 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 (Onland for irrigation)	It is under stabilization
	Total	22.8	10.75117		

V. Solid Waste Management:

- Total Number of Urban Local Bodies: **123** and their Population: **1.5 Crore** (2011 census)
- Current Municipal Solid Waste Generation: **6890** TPD for 123 ULBs
- The Source Segregation in the State is 98.25%
- The door to door collection in the state 100%.
- Interim Action Plan is being implemented to provide immediate solution to Solid Waste Management in all ULBs to process wet, dry & combustible waste.

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: 3859
- 1.21 crores Dustbins in three Colors (3 Bins to each household) have been distributed, on free of cost to encourage 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 1800 TPD of the Waste from 80 ULBs (Vishakhapatnam – 27 ULBs & Guntur 53 ULBs).
- For Disposal of Combustible Waste, 43 ULBs are mapped to 5 Cement Plants to treat 355 TPD.

Wet Waste Processing Plants

- Total 42 Waste to Compost plants, Bio-methanation Plants and ISWM Plants are established covering 51 ULBs. Out of which 29 Nos. are Waste to Compost Plants, 4 Nos. are Bio-CNG plants & 9 Nos. are ISWM 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.

- 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.
- 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 Commercial establishments like Hotels, Restaurants etc.,

Material Recovery facilities (MRFs)

- Material Recovery facilities have been established in all 123 ULBs to process the dry waste @ 945 TPD.
- Sorted out recyclables are being sold to identified Recyclers by the ULBs.

Thus, the total waste generated i.e., 6890 MTs is being treated with the existing processing facilities established in the ULBs.

Construction & Demolition Waste Processing Plants

- Construction and Demolition waste processing plants are established in Greater Visakhapatnam Municipal Corporation, Vijayawada Municipal Corporation and Tirupati Municipal Corporation treating C&D waste and utilizing the processed C&D Waste in as paver blocks in footpath works, sand in building/road works. The Paver Blocks & sand are being sold to private agencies/contractors.
- In Kakinada & Kurnool Municipal Corporations, crushing units are established by ULBs. Fly Ash Bricks & 20 mm metal are being manufactured in Kurnool and being sold to private agencies & contractors. In Kakinada the crushed C&D Waste being used to fill the low-lying areas.

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, Ananthapuramu Corporations & Dharmavaram Municipality.

- Work is under Progress in remaining 28 ULBs.
- Out of 91 ULBs under category of below 1 Lakh population, Bio remediation of legacy waste was completed in Nuzvidu, Yelamanchili, Kovvur, Pulivendula, Badvel, Rayachoti & Mydukur.
- Work is under progress in the remaining 84 ULBs.
- So far, 26.22 lakh Tons of Legacy Waste has been treated, out of 85.00 Lakh Tons quantified.

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

VI. Bio-medical Waste Management:

- Total Bio-medical waste generation: 16 Tones/Day
- No. of Hospitals and Health Care Facilities: 14,250 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.
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VII. Hazardous Waste Management:

- Total Hazardous Waste generation is about: 45,576 Tones during the month of September, 2023 and cumulative quantity (April 2022 to September, 2023) is approximately 7,88,855 Tones.
- No of industries generating Hazardous Waste: 2748 Nos as per Hazardous Waste inventory, 2021 -22.
- **For the month of September, 2023, the Quantity of Hazardous Waste Treated & Disposed is as follows:**
 - i) Utilizable waste is 28274 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 2860 TPM (suitable for recycling /recovery of material viz. oil reclamation units, lead and zinc recovery units).
 - iii) Incinerable waste is 394 TPM (not suitable for any recycling / reuse and having high calorific value i.e. > 2500 K cal/kg) and
 - iv) Land fillable waste is 14045 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, Visakhapatnam.
- ✓ M/s Coastal Waste Management Project Unit-2 a division of Mumbai Waste Management Limited, S.P.S.R. Nellore District.

VIII. Plastic Waste Management:

Total plastic waste generation	36620.101 TPA (As per Annual Report for the F.Y. 2021-22).
Implementation of Plastic Waste Management Rules, 2016 in Urban Local Bodies	• 140 Nos of Producers and 58 Nos of plastic waste processors are registered in the EPR Portal of CPCB. • 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 for 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 Cements Plants & 80 ULBs have so far tied up with 2 Waste to Energy 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 APPCB jointly with officials from Urban Local Bodies 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, Rajamahendravaram, 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	Rajamahendravaram	3.0 Kms	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	:	7 (115 KLD)
No. of In-progress FSTPs	:	58 (865 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
6	Dhone	20	Completed
7	Markapur	20	Completed
Total		115	

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

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
1	Gooty	15	February-2024
2	Jammalamadugu	15	February-2024
3	Kadiri	25	February-2024
4	Kalyanadurgam	10	February-2024
5	Madakasira	5	February-2024
6	Pulivendula	20	10% Work completed. January - 2024
7	Puttaparthi	10	February-2024
8	Rayachoti	25	January- 2024
9	Rayadurg	20	February-2024
10	Allagadda	10	February-2024
11	Atmakur (K)	15	February-2024
12	Badvel	25	February-2024
13	Gudur (K)	5	February-2024
14	Mydukuru	15	February-2024
15	Nandikotkur	15	February-2024
16	Yelamanchili	15	February-2024

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
17	Punganur	15	10% Work Completed January - 2024
18	Rajampeta	15	February-2024
19	Yerraguntla	10	February-2024
20	Atmakur (N)	10	February-2024
21	Giddalur	10	February-2024
22	Gudur (TPT)	20	25% Work Completed. December-2023
23	Kandukur	20	10% Work Completed. January – 2024
24	Kanigiri	15	January – 2024
25	Nagari	20	20% Work Completed. December-2023
26	Naidupet	15	February-2024
27	Puttur	15	February-2024
28	Sullurpeta	15	20% Work Completed. December-2023
29	Venkatagiri	15	20% Work Completed. December-2023
30	Addanki	10	February-2024
31	Bapatla	25	70% work Completed. November -23
32	Chimakurthy	10	April -2024
33	Chirala	25	75% work Completed. November -23
34	Macherla	15	February-2024
35	Mangalagiri	25	April -2024
36	Piduguralla	15	April -2024
37	Ponnur	15	75% work Completed. November-23
38	Repalle	15	January -2024
39	Sattenapalli	15	January -2024
40	Salur	15	January -2024
41	Amalapuram	15	January -2024
42	Gollaprolu	5	January -2024
43	Kovvur	10	April-2024
44	Mandapeta	15	February-2024
45	Mummidivaram	10	February-2024
46	Peddapuram	15	10% Work Completed. January-2024
47	Pithapuram	15	February-2024
48	Ramachandrapuram	15	February-2024
49	Samalkota	15	February-2024
50	Tuni	15	April-2024
51	Yeleshwaram	10	April-2024
52	Amudalavalasa	10	December -2023
53	Parvathipuram	15	December -2023

S.No	Name of the ULB	Plant Capacity (in KLD)	Expected Date of Completion
54	Ichapuram	10	February-2024
55	Narsipatnam	20	December -2023
56	Nellimarla	10	February-2024
57	Palakonda	10	January -2024
58	Palasa-Kasibugga	15	February-2024
		865	

It is submitted that owing to disputes in lands identified, there is delay in completion of construction of FSTPs in some ULBs. Those issues will be resolved shortly in co-ordination with the District Administration and progress will be submitted in the ensuing Monthly Progress Reports.

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.	Jaggiahpet	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	

- 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 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.

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

A Review meeting was conducted by the Chief Secretary to Government on 12.10.2023 with the officials of Municipal Administration Department, Swachh Andhra Corporation, Engineer-in-Chief (Public Health), APUFIDC, APPCB etc., on solid and liquid waste management and on the Orders of the Hon'ble National Green Tribunal, New Delhi in O.A.No.606 of 2018.

XIII. 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)

XIV. 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 Expert 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 i.e., 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
Coastal	2	64
Rayalaseema	4	82
Total	06	146

XV. 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 cations and anions 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.

XVI. Rain Water Harvestings:

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 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 & 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 Biodiversity Board have entered into an agreement with M/s. KELTRON, Tiruvananthapuram 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 about 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 2,28,930 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, brochures, 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 Coordinators 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.

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 (in MLD)
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	Puttaparthi	1.50	0.30
7	Kurnool	2.40	0.096
8	Kadapa	20.00	10.00
9	Pulivendula	10.00	2.50
	Total	373.95	166.83

XXII. 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.

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

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

Irrigation department has carried out bathymetric survey in upstream of Prakasam Barrage i.e., (From KM 0.00 to KM 13.50). It is a scientific study done by using Single Beam Echo Sounder (SBES), Positioning and Navigation systems from Prakasam Barrage to Ibrahimpatnam (About 13.50 km upstream of Barrage) in Krishna River in regular grid intervals of 10m (Both in X & Y Planes). Downstream areas have not come under the purview of de-siltation. The area of study is only foreshore water submerged area which will be considered as reservoir. The study was carried out by hiring the services of M/s BSP Hydro Dredging Works, Bhimavaram. M/S BSP Hydro Dredging Works, Bhimavaram has previous experience in conducting Hydrographic Surveys required for National Waterway-4 in Krishna River from Harischandrapuram to Chamarru and conducted Bathymetry surveys in the Krishna River. Further, the firm has conducted Bathymetry & Hydrographic Survey for design of floating.

- i. The capacity of Prakasam Barrage is 3.071 TMC at 12' (+17.39 Mts) Level from crest level i.e., F.R.L (Full Reservoir Level).
- ii. After conducting the Bathymetric survey, the capacity of Prakasam barrage is 2.982 TMC at 12' (+17.39 Mts)
- iii. Critical areas in barrage w.r.t bed level along with GPS co-ordinates indicating reservoir area is as follows:

The GPS co-ordinates indicating in reservoir area are as follows:

S.No	Village name	Depth in Mt	GPS Coordinates
(a)	Gollapudi	3.0	1632.2381,8033.3658
(b)	Venkatayapalem	3.0	1631.3973,8032.5441
(c)	Lingayapalem	3.0	1634.8838,8030.5596
(d)	Surayapalem	4.0	1632.4663,8033.1526
(e)	Guntupalli	4.5	1634.1632,8031.5177
(f)	Uddandrayunipalem	5.0	1633.5291,8031.2338

In accordance with the Bathymetric survey in foreshore area of Prakasam Barrage from 0.00 to 13.50 KM that the capacity of Prakasam barrage is arrived as 2.982 TMC and the silt volume above original Bed Level to be removed has estimated as 1,24,77,704 Cum. Increase in Water storage capacity after conducting de- siltation of 1,24,77,704 cum quantity as per Bathymetry survey will the water storage will be increased 0.441 TMC. Depth of accumulation and quantity of sand that can be removed in the Villages of Lingayapalem and Rayapudi.

- After conducting the bathymetric survey, it is observed that the silt accumulated as patches in between 10.80 to 12.700 KM in Lingayapalem Village to a total an estimated quantity of 4,29,710 Cum and in between 12.700 to 13.500 KM in Rayapudi Village to an estimated quantity of 71,177 cum can be proposed for De-Siltation.

No Affect In Flood Banks Above Anicut (Foreshore Area)

- The Left Flood Bank above the Anicut extends from 0.00 to 13.00 KM to a point where it abuts on the Ibrahimpatnam Hills.
- The Right Flood Bank above the Anicut/Starts from Tadepalli Hill and extends up to Undavalli Hills distance of 1.32Km. Later under Flood Control Programme, this Flood Bank is extended up to Vaikuntapuram Hill for a further distance of 22.60Km.
- The flood Banks were stable and no damage was occurred in floods occurred during the year 2009 & 2019, where the discharge was recorded as 11.10 Lakh Cusecs and 8.05 Lakh Cusecs respectively.

Present status on Bhavani Island and measures taken to protect the island due to de-siltation activities.

- As per the records, no de-silting activity conducted surroundings of Bhavani Island and no damage was caused due to de-siltation.

It is submitted that, the Barrage area falls up to 13.5 km from the Prakasam barrage. After the Hon'ble National Green Tribunal Order dated 04.04.2019 that all the de-siltation works have been stopped in Prakasam barrage. In this regard, it is to submit that, after General Elections conducted in May-2019, that the new State Government, in the interest of sustainable sand mining, compliance to environmental regulations, ensuring affordable prices of sand and raising valuable public revenues to the state exchequer, had been reviewed the existing Free Sand Policy. Subsequently New Sand Policy was introduced w.e.f. 05.09.2019 in lieu of Free Sand Policy, by appointing M/s Andhra Pradesh Mineral Development Corporation (APMDC) Ltd., a State Government Corporation, as an agent to operate on behalf of Government to undertake Sand quarrying and supply of Sand to the public, vide G.O.Ms.Nos. 70,71,72,73 of Industries, Infrastructure, Investment & Commerce (Mines-II) Department dt. 04.09.2019. The salient features as per New Sand policy, 2019 is as follows:-

I. Sand excavation from reaches, transportation to stockyards and loading and transportation from stockyard to end consumers shall be undertaken by M/s APMDC.

II. Sale price:

- a. Sale price of sand has fixed at Rs. 375/- per ton at the stockyards established near the sand reaches.
- b. Sand depots are also established near to the urban centers and District Headquarters where there are no nearby sand reaches. At Sand depots, sale price of sand shall be fixed by adding transportation and loading charges in addition to base price of Rs. 375/- per ton for bringing the sand to the sand depot.
- c. Transportation charges from Stockyards and Sand depots to the consumer destination are additional.

III. De-casting of Pattalands:

- (a) M/s.APMDC shall undertake De-casting of sand from Patta Lands with the consent of pattadars.

IV. De-siltation of Sand

- a. Irrigation Department shall take-up de-siltation of Dams, Reservoirs, Barrages and large tanks directly or by allotting the work to M/s APMDC Ltd.
- b. In case of Irrigation Department undertaking the de-siltation work directly, they shall put in place a suitable administrative mechanism, to efficiently supervise the de-siltation process.
- c. The sand available after de-silting should be handed over to M/s APMDC Ltd. for transporting to stockyards for supply to Government works and public use

- d. In case of handing over De-siltation areas to M/s APMDC Ltd., M/s APMDC Ltd., shall undertake de-siltation works and dispose of the sand as per policy in vogue.

V. Sand extraction in Scheduled areas:

- a. Excavation and transportation of Sand to the Specified stockyards from Sand bearing areas located partially/fully in Scheduled Areas shall be done by forming Tribal Societies as per the Panchayats Extension to Scheduled Areas (PESA) Rules, 2011 with Technical and Administrative support from M/s APMDC Ltd. under the direct supervision and control of the Agency ITDA / District Collector & Magistrate concerned. M/s APMDC Ltd. shall dispose off the sand from the stockyards.

VI. GPS tracking system:

- a. GPS to be fitted in the vehicles carrying sand from sand reach to the stockyard and from stockyard to the consumer.
- b. Vehicles without GPS are not permitted to transport Sand.
- c. No transportation of the sand outside the state is allowed.
- d. Stringent punishment and penalties will be levied, if sand is transported illegally.

VII. It is submitted that, with regard to the detailed study, covering the scope of work to assess the extent of the damage to Avifauna, Aquatic flora and fauna including benthic community, Acharya Nagarjuna University, involving the Departments of Botany and Microbiology, Zoology and Aquaculture, Environmental Sciences and Sociology and Social Work of Acharya Nagarjuna University and Central Pollution Control Board (CPCB) has undertaken the detailed study to assess the extent of the damage to the Avifauna, Aquatic Flora & Fauna including benthic community in the Prakasam Barrage up to 13.5 km's on the upstream side. The report of the study is as follows:

“Basing on the above conclusions drawn from different studies, the members opined that there was no notable negative impact on water quality regarding TSS & Turbidity, Phytoplankton, Riparian vegetation, Zooplankton, Benthos, Fishes and Avian fauna at de-siltation sites in river Krishna during the study period.”

The Hon'ble National Green Tribunal, New Delhi was posted the case on 14.02.2020. Secretary (Mines) filed Bathymatric report and Nagarjuna University report to Hon'ble National Green Tribunal on 17.01.2020.

Further, on 14.02.2020 the matter was came to the Hon'ble National Green Tribunal, New Delhi and ordered that the report needs to be independently evaluated

and validated. For this purpose, the Hon'ble National Green Tribunal, New Delhi has constituted Expert Appraisal Committee on the subject of the MoEF&CC, Nominees of CPCB, Indian School of Mines, Dhanbad and the Indian Institute of Science, Bengaluru. The joint Committee may be assisted by the Andhra Pradesh State PCB. The CPCB will be the nodal agency for co-ordination and compliance. The applicants will be free to give their view point/submissions to the CPCB within two weeks. The CPCB will provide all documents to the members of the Committee. The report may be furnished within two months by email at judicial-ngt@gov.in.

Accordingly, the Expert Committee has sought certain clarifications on Bathymetric survey report and Ecological Assessment report from the E.E., KC.Division Vijayawada and Acharya Nagarjuna University. In this connection, the E.E., KC.Division Vijayawada and Acharya Nagarjuna University have been submitted their clarification to the Expert Committee.

The Expert Committee has submitted clarification to the Hon'ble National Green Tribunal, New Delhi on Bathymetric survey and Ecological Assessment which report has been submitted by the E.E., KC. Division Vijayawada and Nagarjuna University and matter posted for hearing on 24.08.2020 in OA No 935/2018. The case is disposed off with no further order is necessary except that the operations be overseen by the same Expert Committee to ensure that no damage is caused to the environment.

Accordingly, a Report dated 20.07.2020 has been submitted by the Expert Committee to the Hon'ble National Green Tribunal, New Delhi. Overall Concluding the remarks in the report are:-

“Overall concluding remarks of the Committee Members

- i. Water Resource Department, Government of Andhra Pradesh has carried out bathymetric survey in conformity with the established and recommended practices. As per the Bathymetric survey carried out during December, 2019 to January, 2020 present storage capacity of Prakasam barrage is 2.982 TMC. There is loss in storage capacity of 0.089 TMC as compared to the design capacity of 3.071 TMC.
- ii. The report submitted by Water Resource Department, Govt. of Andhra Pradesh to Hon'ble NGT is satisfactory.

- iii. From the Ecological assessment report it can be inferred that the **cautious use of dredgers & mechanised boats and judicious desilting activity may not have serious impacts on flora and fauna in Prakasam barrage.**
- iv. Overall the Ecological assessment report is satisfactory excepting the section on Water quality.”

In view of above, the Hon’ble National Green Tribunal, New Delhi order delivered in O.A. No. 935 of 2018 dated 24.08.2020, “no further order is necessary except that the operations be overseen by the same Expert Committee to ensure that no damage is caused to the environment “and all pending applications do not survive and are disposed of.

The State Government, vide G.O.Ms.No.78, Ind. & Com. (M-III) Dept, Dt. 12.11.2020 (copies enclosed as Annexure – 4), has issued orders upgrading the existing Sand Policy 2019 and issued amendments to relevant APMMC Rules vide G.O.Ms.No.25, Ind. & Com. (M-III) Dept, Dt.16.04.2021.

After the conclusion of the tender process, M/s MSTC Ltd. have informed that M/s Jaiprakash Power Ventures Limited has been emerged as a Successful bidder for all the three (3) package by quoting the highest bid amounts of Rs. 477.50 Cr., Rs. 745.70 Crores and Rs.305.60 Crores for Package – 1: Srikakulam, Vizianagaram, Visakhapatnam & East Godavari districts, Package–2: West Godavari, Krishna, Guntur & Prakasam districts and Package – 3: Nellore, Anantapur, Chittoor, Kurnool & YSR Kadapa districts respectively.

It is informed that the Superintendent Engineer, Irrigation Circle, Water Resources Department, Vijayawada has entered an agreement on 10-08-2021 vide agreement No. 21/SE/2020-21 with M/s Reach Dredging Limited, Kolkata for dredging of silt from the Foreshore of Prakasam Barrage from Km 7.500 to Km 8.400 in Krishna River with an agreement value of Rs.5,58,49,600/- for a total quantity of 5,63,000 Cums at the rate of Rs.99.20/- per Cum.

The officials of Irrigation Department, KC Division, Vijayawada was handed over sand for quantity of 55,263 CBM at Tank-1, 93,968 CBM at Tank-2 and 53,268 CBM at Tank-3 of Reach-10 at Mandadam Village of Thulluru Mandal, Guntur District to the Deputy Director of Mines & Geology, Guntur and the Assistant Director of Mines & Geology, Guntur. In turn, the Deputy Director of Mines & Geology and Assistant Director of Mines & Geology handed over the sand for a quantity of 55,263 CBM at Tank-1 of reach-10 in Mandadam Village, Thulluru

Mandal, Guntur District to M/s Jaiprakash Power Ventures Ltd., for disposal of sand. M/s Jaiprakash Power Ventures Ltd., has informed that the buyers are not willing to purchase the sand due to silt is found in the sand and requested to examine the quality of Dredged sand by the technical team to find out the percentage of silt content found in the sand.

Accordingly, the Government constituted a Technical Committee with the officials of Water Resource Department and Mines & Geology Department to study, analyze and ensure the quality and components of sand derived from the dredging of the Prakasam Barrage and to identify the sand suitable for sale purpose and requested the Director of Mines & Geology to take necessary action. The Director of Mines & Geology, Ibrahimpatnam vide Lr. No. 5123961/Prakasam Barrage/Sand/2021, dt: 21.02.2022 directed the Deputy Director of Mines & Geology, Guntur to Coordinate with the officials of other Committee members of Water Resource Department and M/s Jaiprakash Power Ventures Ltd., to see that proper study and analysis is conducted to ensure the quality of sand derived from the dredging of Prakasam Barrage suitable for sale purpose.

The quality of sand analysis report is awaited. A meeting was conducted on 27.05.2022 under the Chairmanship of VD&MD, APMDC between officials of the Water Resource Department (WRD), department of Mines & Geology (DM&G), M/s Jaiprakash Power Ventures Limited and M/s APMDC Ltd., to finalize the action plan for de-siltation of the Prakasam Barrage and its subsequent sale.

- **Name and designation of designated officer for ensuring compliance to provisions under statutes:**

S. No	Department	Designated Officer for ensuring compliance
1	Mines & Geology	DM&G, Vijayawada.

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 - 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	8.36	8.27	Rain	8.05				6.0 - 8.5	6.0 – 9.0	
	4359	8.3	8.34	8.01	8.15	8.35	8.35	8.45	7.17	7.89						
	0014	7.9	8.29	7.89	7.87	8.25	8.99	8.37	7.69	7.83						
	1218	7.91	8.3	7.89	7.99	7.30	8.32	8.32	7.42	6.61						
	2370	8.01	7.71	7.37	7.56	7.62	8.34	8.15	7.80	6.27						
	2371	8.07	7.61	7.48	7.55	7.71	8.37	8.11	7.70	6.40						
	1219	8.32	7.5	7.41	7.58	7.99	8.47	8.47	7.53	6.55						
	4365	8.25	8.31	8.42	8.02	7.47	8.39	7.49	8.20	8.36						
	4366	7.65	7.5	8.02	7.32	7.49	7.70	7.45	8.22	8.13						
	4358	7.92	7.62	7.57	7.49	7.13	7.50	7.39	7.53	6.84						
DO	4367	6.5	7.2	6.3	7.0	7.5	6.2	7.2	Rain	7.2				6.0	5.0	4.0
	4359	7.8	7.0	6.8	7.2	7.2	6.4	7.2	6.2	7.0						
	0014	6.8	7.2	7.4	7.2	7.5	6.2	6.2	7.5	6.0						
	1218	6.9	7.1	7.2	7.1	7.5	7	7.2	7.3	7.6						
	2370	7.1	7.0	6.8	6.9	7.0	6.9	7.0	6.7	7.5						
	2371	6.8	6.1	6.2	6.8	6.2	6.7	7.1	6.5	7.2						
	1219	6.9	6.6	6.4	7.0	6.5	7	7.1	6.6	7.2						
	4365	6.4	6.8	7.4	6.7	8.1	5.4	5.9	6.5	6.4						
	4366	6.3	6.5	7.2	6.8	7.2	5.6	5.5	5.8	6.2						
	4358	6.8	6.0	6.2	7.2	6.0	6.6	7.2	6.7	7.4						
BOD	4367	2	2.1	1.4	1.1	2	2.2	2.1	Rain	1.3				2.0	3.0	3.0
	4359	1.8	1.8	2.0	2.0	1.3	2.1	1.9	2.3	2.0						
	0014	1.6	2.0	2.4	1.2	2.0	1.4	2.2	2.4	2.6						
	1218	1.8	2.1	2.2	2.2	2	2	2.2	2	1.6						
	2370	2	2	2.2	2.2	2.2	2.2	2.2	2.4	1.8						
	2371	2.2	2.2	2.4	2.2	2.2	2.4	2.2	2.3	2.0						
	1219	2.2	2.2	2.2	2.2	2.4	2.2	2.0	2.2	2.0						
	4365	2	1.8	2.1	2.4	2.2	2.1	2.6	2.5	2.0						
	4366	2.2	2	2.6	2.1	2.3	2.4	2.9	2.8	2.1						
	4358	2.4	2.2	2.4	2.0	2.2	2.2	2.0	2.2	2.2						

Total Coliform	4367	150	150	120	210	150	120	150	Rain	93				50	500	5000
	4359	39	21	64	43	64	68	43	93	93						
	0014	120	120	150	150	210	240	150	120	120						
	1218	75	75	150	120	120	150	120	150	150						
	2370	210	150	210	120	210	120	150	120	120						
	2371	210	210	240	150	240	150	210	210	210						
	1219	120	93	120	240	460	210	240	150	150						
	4365	240	120	210	93	120	150	210	240	240						
	4366	210	240	240	210	240	210	460	460	460						
	4358	240	150	150	75	93	75	64	43	43						
Fecal Coliform	4367	7	4	3	9	9	7	4	Rain	3				---	500	---
	4359	9	3	4	3	4	4	<3	<3	<3						
	0014	7	14	7	9	7	9	4	7	7						
	1218	9	9	9	4	7	7	4	7	7						
	2370	11	7	11	7	7	7	4	4	4						
	2371	4	20	14	7	11	9	4	7	7						
	1219	14	15	9	11	11	9	11	4	4						
	4365	21	14	11	9	9	7	7.0	9	9						
	4366	15	7	14	11	14	11	14	11	11						
	4358	7	7	9	4	7	4	3.0	3	3						
TDS	4367	168	141	94	142	90	140	93	Rain	144				500 - 2000		
	4359	63	50	44	62	62	64	62	76	65						
	0014	165	158	104	114	80	156	92	135	152						
	1218	168	160	108	152	410	212	126	130	170						
	2370	227	152	125	224	198	180	225	204	210						
	2371	180	146	128	110	125	160	133	164	170						
	1219	172	160	124	88	111	144	118	152	160						
	4365	168	124	96	122	11800	25276	22300	208	210						
	4366	21648	27456	30120	21450	11620	28131	27340	620	264						
	4358	196	23496	30332	30250	30115	16595	3100	182	136						

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	7.3	7.3	7.6	7.8				6.0 - 8.5	6.0 – 9.0	
	3083	7.1	7.9	6.9	7.7	7.4	7.9	7.8	7.6	7.8						
	4381	7.89	7.80	7.88	8.10	7.56	7.68	7.71	7.93	7.24						
	1786	7.92	7.91	7.83	7.98	7.52	8.15	7.85	7.72	7.86						
	1787	7.83	7.94	7.96	8.06	7.61	7.26	7.63	7.51	7.25						
	0025	7.53	8.08	7.87	7.92	7.40	7.50	7.68	7.19	7.50						
	4375	7.60	7.74	7.67	7.94	8.05	8.04	7.58	7.50	7.50						
	1782	7.63	8.18	7.92	7.84	7.91	8.10	7.83	7.63	7.80						

DO	1175	5.6	5.7	5.4	5.5	5.4	5.7	5.3	6.2	6.1				6.0	5.0	4.0
	3083	5.8	5.8	5.6	5.4	5.3	5.8	5.7	5.9	5.8						
	4381	7.3	7.6	7.5	7.4	7.2	7.1	7.3	7.4	7.2						
	1786	7.4	7.3	7.6	7.7	7.3	7.2	7.4	7.6	7.2						
	1787	7.3	6.9	7.2	7.6	6.9	7.3	7.6	7.7	7.1						
	0025	7.1	7.3	7.4	7.2	7.8	7.6	7.7	7.3	7.5						
	4375	7.1	7.5	7.2	7.3	7.5	7.4	7.6	7.3	7.1						
	1782	6.9	6.4	6.3	6.4	6.1	6.4	6.9	6.8	6.7						
BOD	1175	2.0	1.8	2.0	1.2	1.0	1.8	1.5	1.7	2.0				2.0	3.0	3.0
	3083	1.5	1.5	1.7	0.8	0.7	1.5	1.6	1.3	1.5						
	4381	2.8	2.9	2.8	2.8	2.7	2.6	2.7	2.8	2.6						
	1786	2.8	2.8	2.7	2.6	2.8	2.7	2.5	2.8	2.7						
	1787	2.8	2.6	2.8	2.8	2.9	2.7	2.3	2.6	2.7						
	0025	2.6	2.6	2.7	2.6	2.6	2.5	2.4	2.6	2.4						
	4375	2.7	2.8	2.6	2.6	2.5	2.6	2.5	2.2	2.4						
	1782	2.7	2.7	2.8	2.8	2.8	2.7	2.6	2.7	2.8						
Total Coliform	1175	659	756	921	866	870	1046	921	689	549				50	500	5000
	3083	689	921	816	921	721	756	770	575	525						
	4381	420	470	460	93	89	150	43	120	93						
	1786	470	470	240	64	75	120	150	120	75						
	1787	260	440	460	75	75	120	75	93	120						
	0025	470	460	460	64	75	93	71	64	75						
	4375	440	460	470	64	43	64	75	75	64						
	1782	120	380	210	43	43	93	43	64	43						

Fecal Coliform	1175	102	149	102	290	229	303	220	189	177				---	500	---
	3083	214	343	267	232	222	231	211	177	169						
	4381	14	14	15	4	7	28	7	14	11						
	1786	12	15	7	4	4	14	28	23	14						
	1787	14	15	21	7	9	39	11	10	14						
	0025	11	4	15	9	11	14	11	7	11						
	4375	11	14	14	9	4	11	9	11	10						
	1782	4	10	7	4	4	7	9	9	7						
TDS	1175	468	739	1069	1132	812	905	710	281	352				500 - 2000		
	3083	378	401	515	442	451	449	465	464	364						
	4381	594	576	588	552	517	496	510	414	379						
	1786	520	560	530	513	488	460	520	514	520						
	1787	424	432	464	460	480	478	432	405	494						
	0025	468	458	422	440	450	462	450	410	365						
	4375	464	476	478	454	460	474	425	246	236						
	1782	15600	16620	15100	16600	14010	9600	4740	6380	7900						
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	7.8	7.7	7.8	7.5				6.0 – 8.5		6.0 – 9.0
	1174	7.5	7.4	8.1	7.7	7.9	7.3	7.8	7.7	7.5						
	4388	7.1	7.0	7.8	7.3	6.8	7.0	7.4	7.7	7.4						
	4389	7.2	7.2	7.0	7.5	7.6	7.8	7.3	7.8	7.4						
DO	1785	5.7	5.5	5.5	5.6	5.7	5.3	5.7	6.4	6.1				6.0	5.0	4.0
	1174	5.9	5.6	5.6	5.8	5.4	5.4	5.2	5.6	6.0						
	4388	5.4	5.4	5.6	5.3	5.0	5.5	5.6	5.4	5.7						
	4389	5.3	5.1	5.4	5.2	5.6	5.2	5.3	5.6	5.7						
BOD	1785	2.0	1.7	2.2	1.0	2.7	2.5	2.2	1.8	1.5				2.0	3.0	3.0
	1174	2.2	2.2	2.5	1.8	1.7	2.2	2.2	2.3	1.8						
	4388	1.8	1.5	2.5	1.3	2.8	2.2	2.2	1.5	2.3						
	4389	2.2	2.5	2.8	1.2	0.3	2.5	2.8	1.8	1.7						

Total Coliform	1785	1046	1300	1414	1553	1300	1203	1120	866	602				50	500	5000
	1174	1120	1046	1120	1046	1120	1203	1046	921	727						
	4388	1203	1046	1414	1300	1553	1203	1120	629	613						
	4389	1414	1733	1986	1733	1553	1120	980	727	792						
Fecal Coliform	1785	615	320	343	408	479	491	312	196	163				---	500	---
	1174	479	437	403	420	290	343	278	244	195						
	4388	549	437	368	343	423	472	368	211	198						
	4389	525	575	629	689	420	368	258	208	185						
TDS	1785	820	866	813	644	886	918	962	905	764				500 - 2000		
	1174	887	991	950	1038	1056	960	857	887	894						
	4388	953	1165	1065	1052	1477	1208	1009	1090	934						
	4389	796	930	1120	1032	470	768	732	868	774						
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 Kureru, Vizianagaram Dist.
02	1448	Thotapally, Vizianagaram Dist.
03	4346	River Nagavali U/S of Srikakulam town.
04	4347	River Nagavali D/S of Srikakulam town.

Month-wise data of water quality of river Nagavali, 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	8.13	7.46	7.76	6.80				6.0 – 8.5	6.0 – 9.0	
	1448	8.4	8.23	8.27	7.59	7.84	8.18	7.57	7.98	6.96						
	4346	7.4	8.35	8.17	7.30	7.25	7.40	6.35	8.36	7.99						
	4347	8.34	8.5	8.14	7.12	7.40	7.32	6.29	7.59	7.69						
DO	4351	7.5	7	7.2	6.4	6.0	5.2	5.9	6.4	6.2				6.0	5.0	4.0
	1448	6.4	6.6	7.3	6.2	6.4	6.8	5.7	6.8	6.5						
	4346	7.6	6.5	6.4	7.2	6.6	6.2	5.8	6.0	6.0						
	4347	8	6.3	6.3	7.0	6.4	5.8	5.4	5.7	6.4						
BOD	4351	1.4	1.4	2.6	2.0	2.2	2.4	1.7	2.9	1.2				2.0	3.0	3.0
	1448	1.2	1.8	2.4	2.7	1.9	2.2	2.8	2.2	2.0						
	4346	2.6	1.3	2	1.9	2.4	2.2	2.0	2.4	2.0						
	4347	2.7	1.5	2.2	2.0	2.6	2.4	2.3	2.5	2.2						
Total Coliform	4351	210	240	240	210	150	210	150	210	210				50	500	5000
	1448	150	120	150	150	120	120	150	120	120						
	4346	240	210	150	120	150	150	240	210	210						
	4347	210	240	210	210	240	240	460	240	240						
Fecal Coliform	4351	20	11	14	9	9	14	7	7	7				----	500	----
	1448	20	7	9	9	11	7	9	3	3						
	4346	7	7	7	9	11	9	7.0	9	9						
	4347	7	15	11	15	14	11	20	11	11						
TDS	4351	213	176	222	190	320	252	218	128	224				500-2000		
	1448	189	180	224	218	430	236	208	156	172						
	4346	210	245	228	244	214	240	196	200	210						
	4347	219	250	230	252	212	220	190	195	192						
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	7.3	7.3	7.1	7.3				6.0 – 8.5		6.0 – 9.0
DO	5.5	5.2	5.5	5.2	5.5	3.4	4.8	5.4	5.6				6.0	5.0	4.0
BOD	2.3	2.5	2.8	3.3	3.3	3.6	2.9	2.8	2.3				2.0	3.0	3.0
Total Coliform	1290	1414	1733	1986	1553	1733	1300	1120	980				50	500	5000
Fecal Coliform	501	649	525	593	510	529	403	344	273				---	500	---
TDS	626	742	851	834	592	712	662	751	512				500 - 2000		
Note: All values are expressed in mg/L except pH, Total Coliform & Fecal Coliform value. Total Coliform & Fecal Coliform is expressed in MPN count / 100 ml.															

**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	7.27	7.53	8.10	7.46				6.0 – 8.5		6.0 – 9.0
DO	0	2	4.3	3.2	5.6	1.8	0.5	0.5	1.0				6.0	5.0	4.0
BOD	12.2	11.4	8.4	11.8	2.5	14	15	5.2	4.8				2.0	3.0	3.0
Total Coliform	43	75	240	460	460	210	240	210	210				50	500	5000
Fecal Coliform	9	9	11	14	11	11	7	4	7				---	500	---
TDS	1050	2180	1530	1480	1158	3852	1510	980	756				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: 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), Kruthivenu (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	Sample not collected, due to No Flow of water.	7.88	7.80	7.80				6.0 – 8.5		6.0 – 9.0
DO	6.6	6.7	6.2	5.8	6.1		5.9	6.2	6.4				6.0	5.0	4.0
BOD	2.9	2.9	2.8	2.7	2.6		2.3	2.3	2.5				2.0	3.0	3.0
Total Coliform	120	130	210	39	36		75	43	39				50	500	5000
Fecal Coliform	11	11	14	4	3		9	9	7				---	500	---
TDS	26170	31460	28300	34700	32800		24500	28220	31100				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), Kruthivenu (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	8.39	7.49	8.20	8.36				6.0 – 8.5	6.0 – 9.0	
	4366	7.65	7.5	8.02	7.32	7.49	7.70	7.45	8.22	8.13						
DO	4365	6.4	6.8	7.4	6.7	8.1	5.4	5.9	6.5	6.4				6.0	5.0	4.0
	4366	6.3	6.5	7.2	6.8	7.2	5.6	5.5	5.8	6.2						
BOD	4365	2	1.8	2.1	2.4	2.2	2.1	2.6	2.5	2.0				2.0	3.0	3.0
	4366	2.2	2	2.6	2.1	2.3	2.4	2.9	2.8	2.1						
Total Coliform	4365	240	120	210	93	120	150	210	240	240				50	500	5000
	4366	210	240	240	210	240	210	460	460	460						
Fecal Coliform	4365	21	14	11	9	9	7	7	9	9				----	500	----
	4366	15	7	14	11	14	11	14	11	11						
TDS	4365	168	124	96	122	11800	25276	22300	208	210				500-2000		
	4366	21648	27456	30120	21450	11620	28132	27340	620	264						

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°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°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°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°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.