



TAMIL NADU POLLUTION CONTROL BOARD

From The Member Secretary Tamil Nadu Pollution Control Board, Guindy Chennai-600 032.	To The Additional Chief Secretary to Govt., Environment, Climate Change and Forests Department, Government of Tamil Nadu, Secretariat, Chennai- 600 009.
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Lr.No.TNPCB/DDL/F-6849/PRS-MPR/2019/dated:28.04.2022.

Madam,

Sub: TNPCB-Submission of Revised Monthly Progress Report for the month of **MARCH 2023** -Regarding.

Ref: 1) CPCB Lr.No.F.No.A-14011/OA 673/2020-WQM-I/ 12178/
dt.4.2.2020.
2) T.O.Lr.No.TNPCB/DDL/F.6849/PRS/2019 Dt : 22.04.2023.

With reference to the Government letter 1st cited, I submit monthly progress report on action plans for the Polluted River Stretches for the month of **MARCH 2023** in Tamil Nadu for kind perusal.

I request that the above report may be forwarded to the Executive Director-Technical, National Mission for Clean Ganga, Ministry of Jal Shakthi, Government of India with a copy to Central Pollution Control Board, New Delhi.

This is submitted for favour of kind information and necessary action please.

Encl: As above

for Member Secretary

[Signature]
28/4/23

Advance copy submitted to:

The Executive Director-Technical, NMCG, (Ministry of Jal Shakthi, Department of Water Resources, River Development & Ganga Rejuvenation, Government of India), First floor, Major Dhyan Chand National Stadium, India Gate, New Delhi-110002.

Copy to: File

[Signature]
28/04/23
அனுப்பப்பட்டது

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***Monthly Progress Report in the NGT Matter ***
OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020)

Month : MARCH 2023.

Overall status of the state:

- I.** Total Population:72.14 million
 Urban Population:34.95 million
 Rural Population:37.19 million
- II.** a. Estimated Sewage Generation (MLD): 3938.29 MLD (State)
 b. Estimated Sewage Generation (MLD): 400.47 MLD (PRS)

III. Details of Sewage Treatment Plant:

S.No.	Details of Sewage Treatment Plant	State	PRS
1.	Existing No. of STPs and Treatment Capacity (in MLD)	99 2172.47	15 335.38
2.	Existing No. of FSTP and Capacity (in MLD)	32 0.924	6 0.06
	Total	2173.394	335.44
3.	MLD of sewage being treated through Alternate technology	957	1.56
4.	Under Construction STPs & FSTP (MLD)'	437.245	-
5.	Gap in Treatment Capacity in MLD	370.651	63.47
6.	Capacity Utilization of existing STPs& FSTPs	1068.504	151.162
7.	No. of Operational STPs	99	15
8.	No. of Complying STPs	99	15
9.	No. of Non-complying STPs	Nil	Nil

Details of each existing STPs in Tamil Nadu & PRS

No.	Location	Existing STP Capacity (MLD)	Capacity being utilized (MLD)	Operational Status of STP	Compliance Status of STP
	CMWSSB				
1.	NesapakkamSTPZone –IV	23	14.83	Operational	Complied
2.	KoyambeduSTPZone – III	34	31.72	Operational	Complied
3.	KodungaiyurSTPZone II	80	38.21	Operational	Complied
4.	KodungaiyurSTPZone I	80	39.42	Operational	Complied
5.	Perungudi STP Zone - V	12	10.08	Operational	Complied

6.	KoyambeduSTPZone - III	60	0.0	Under Rehabilitation	Complied
7.	KodungaiyurSTPZone I& II	110	83.01	Operational	Complied
8.	NesapakkamSTPZone –IV	40	22.43	Operational	Complied
9.	PerungudiSTPZone-V	54	53.67	Operational	Complied
10	PerungudiSTPZone-V	60	59.81	Operational	Complied
11	NesapakkamSTPZone –IV	54	51.63	Operational	Complied
12	KoyambeduSTPZone – III	120	105.94	Operational	Complied
13	Sholinganallur STP(phase I)	18	17.63	Operational	Complied
14	Thiruvottriyur STP	31	5.51	Operational	Complied
15	Kodungaiyur STP Zone – II New	120	65.64	Operational	Complied
16	Nesapakkam TTUF	10	4.15	Operational	Complied
17	CRRT - Chetpet MSTP	1.0	0.69	Operational	Complied
18	CRRT- Nungambakkam MSTP	1.2	0.41	Operational	Complied
19	CRRT - Todd Hunter Nagar MSTP	0.4*10=4	3.27	Operational	Complied
20	CRRT -Kotturpuram MSTP	0.3*2=0.6	0.59	Operational	Complied
	Total – 20 Nos	912.80	608.64		
DMA					
21.	Coimbatore- Ukkadam	70.0	35.0	Operational	Complied
22.	Coimbatore- Ondiputhur	60.0	9.0	Operational	Complied
23.	Coimbatore- Nanjudapuram	40.0	-	Under trial run	-
24.	Coimbatore- Kuruchi&Kuniyamuthur	30.53	-	Under trial run	-
25.	Vellore	10.28	8.0	Operational	Complied
26.	Dindigul	13.65	4.0	Operational	Complied
27.	Avadi	36.0	6.50	Operational	Complied
28.	Avadi	4.0	1.50	Operational	Complied

29.	Madurai-1	125.0	24.0	Operational	Complied
30.	Madurai-2	45.70	15.0	Operational	Complied
31.	Thanjavur	28.05	14.15	Operational	Complied
32.	Tiruppur	15.0	8.50	Operational	Complied
33.	Tiruppur(Expansion of existing)	15.0	-	Under trial run	-
34.	Tiruppur (Sarkarperiyapalayam)	36.0	-	Under trial run	-
35.	Tiruppur (Chinnandipalayam)	20.0	-	Under trial run	-
36.	Cuddalore	12.25	6.70	Operational	Complied
37.	Kanchipuram	14.70	14.70	Operational	Complied
38.	Maraimalai Nagar	2.20	2.20	Operational	Complied
39.	Tiruvallur	6.20	5.50	Operational	Complied
40.	Chidambaram	9.44	6.50	Operational	Complied
41.	Thiruvannamalai	8.70	5.0	Operational	Complied
42.	Viluppuram – Kakuppam	9.0	7.5	Operational	Complied
43.	Viluppuram -Erumanthangal	3.50	1.80	Operational	Complied
44.	Arakkonam	11.04	3.0	Operational	Complied
45.	Thirupathur	11.43	3.50	Operational	Complied
46.	Bodinayakkanur	12.08	4.0	Operational	Complied
47.	Chinnamanur	3.99	3.72	Operational	Complied
48.	Periyakulam	5.47	4.0	Operational	Complied
49.	Ramanathpuram	7.0	6.0	Operational	Complied
50.	Rasipuram	6.96	3.50	Operational	Complied
51.	Theni-Allinagaram	12.05	9.50	Operational	Complied
52.	Sivagangai	4.92	2.0	Operational	Complied

53.	Dharmapuri	4.86	3.50	Operational	Complied
54.	Karur	15.0	6.0	Operational	Complied
55.	Krishnagiri	12.34	8.0	Operational	Complied
56.	Namakkal	5.0	5.0	Operational	Complied
57.	Nagapattinam STP-1	9.63	5.10	Operational	Complied
58.	Nagapattinam STP-2	2.69	1.10	Operational	Complied
59.	Tiruvarur	6.92	4.10	Operational	Complied
60.	Ariyalur	4.16	1.80	Operational	Complied
61.	Pudukkottai	10.62	8.50	Operational	Complied
62.	Perambalur	4.20	3.60	Operational	Complied
63.	Udhagamandalam	5.0	4.0	Operational	Complied
64.	Udumalaipet	7.81	4.50	Operational	Complied
65.	Virudhunagar	7.65	3.80	Operational	Complied
66.	Tambaram	30.0	4.0	Under trial run	Complied
67.	Tuticorin	28.0	10.0	Under trial run	Complied
68.	Thiruchendur	3.90	2.0	Operational	Complied
69.	Ulunderpettai	3.15	1.0	Under trial run	Complied
70.	Pollachi	11.25	1.50	Under trial run	Complied
71.	Sattur	4.65	1.50	Under trial run	Complied
72.	Karaikudi	16.0	-	Under trial run	-
73.	Nagercoil	17.66	-	Under trial run	-
74.	Rajapalayam	21.85	-	Under trial run	-
75.	PRS -Tiruchirappalli	58.0	58.0	Operational	Complied
76.	Tiruchirappalli – STP 2	37.0	-	Under trial run	-
77.	Salem - Vellakuttai STP	13.0	11.0	Operational	Complied
78.	Salem - Anaimeedu STP	6.0	5.0	Operational	Complied

79.	Salem - Mankuttai STP	35.0	15.0	Operational	Complied
80.	Salem - Vandipettai STP	44.0	1.0	Operational	Complied
81.	Tirunelveli	24.20	10.50	Operational	Complied
82.	Erode	50.55	27.0	Operational	Complied
83.	Mettur STP-1	0.82	0.354	Operational	Complied
84.	Mettur STP-2	0.92	0.314	Operational	Complied
85.	Mettur STP-3	5.45	2.834	Operational	Complied
86.	Kumbakonam	17.0	13.50	Operational	Complied
87.	Mayiladuthurai	5.85	5.85	Operational	Complied
88.	Sathiyamanagalam	4.08	1.0	Operational	Complied
89.	Mettupalayam	8.65	-	Under trial run	-
	Total - 69 Nos.	1233.0	445.122		
	CTP				
90.	Mamallapuram TP	2.34	2.34	Operational	Complied
91.	Orathanadu TP	2.30	1.60	Operational	Complied
92.	Palanichettyatti TP	2.80	2.08	Operational	Complied
93.	Thirumazisai TP	3.0	1.80	Operational	Complied
94.	Velankanni TP	2.33	1.0	Operational	Trial Run
95.	Manachanallur TP	6.41	2.0	Operational	Trial Run
96.	S. kannanur TP				
97.	Vallam TP	2.35	1.0	Operational	Trial Run
98.	Perundurai TP	3.14	1.0	Operational	Trial Run
99.	Melachokanathapuram TP	2.0	1.0	Operational	Trial Run
	Total (10 Nos)	26.67	13.82		
	Grand Total (99Nos.)	2172.47	1067.58		

Details of existing FSTPs in Tamil Nadu

S.No.	Location	Existing STP Capacity MLD	Capacity Being Utilized MLD	Operational Status of STP	Compliance Status of STP
	DMA				
1	Kangeyam	0.02	0.02	Operation	Complied
2	Kovilpatti	0.04	0.04	Operation	Complied
3	Tirumangalam	0.04	0.04	Operation	Complied
4	Dharapuram	0.03	0.03	Operation	Complied
5	Sengottai	0.02	0.02	Operation	Complied
6	Thuraiyur	0.02	0.02	Operation	Complied
7	Vickramasingapuram	0.03	0.03	Operation	Complied
8	Edappadi	0.03	0.03	Operation	Complied
9	Kadayanallur	0.04	0.04	Operation	Complied
10	Pattukottai	0.03	0.03	Operation	Complied
11	Tiruchengode	0.04	0.04	Operation	Complied
12	Melur	0.02	0.02	Operation	Complied
13	Ambasamuduram	0.03	0.03	Operation	Complied
14	Mannargudi	0.03	0.03	Operation	Complied
15	Aruppukottai	0.04	0.04	Operation	Complied
16	Sankarankoil	0.03	0.03	Operation	Complied
17	Vandavasi	0.02	0.02	Operation	Complied
18	Gudiyatham	0.03	0.03	Operation	Complied
19	Tenkasi	0.04	0.04	Operation	Complied
20	Paramakudi	0.04	0.04	Operation	Complied
21	Srivilliputhur	0.03	0.03	Operation	Complied
22	Cumbum	0.04	0.04	Operation	Complied
23	Koothanallur	0.02	0.02	Operation	Complied
24	Thiruthuraipoondi	0.01	0.01	Operation	Complied
25	Puliangudi	0.04	0.04	Operation	Complied

26	Kulithalai	0.02	0.02	Operation	Complied
27	Attur	0.04	0.04	Operation	Complied
	Total 27 FSTPs	0.82	0.82		
	CTP				
28.	Karunguzhi	0.024	0.024	Operation	Complied
29.	Periyanaikanpalayam	0.03	0.03	Operation	Complied
30.	Chengam TP	0.020	0.020	Operation	Trial run
31.	Alangayam TP	0.015	0.015	Operation	Trial run
32.	Mudukulathur	0.015	0.015	Operation	Trial run
	Total (5 Nos)	0.104	0.104		
	Grand Total (32 Nos)	0.924	0.924		

Details of under construction STPs in Tamil Nadu

S.No.	Location	Capacity of the plant (MLD)	Physical Progress in %	Status of I&D or House sewer connection	Completion Timeline
CMWSSB					
1	SholinganallurSTP(PHASE II)	54	93.50		May 2023 (36 +18) 18 MLD trial run under progress
2	Kodungaiyur STP Zone - I	120	100.0		Feb 2023 Trial run under progress
3	NesapakkamSTP Zone - IV	50	100.0		Feb 2023 Trial run under progress
4	PerungudiSTP Zone - V	60	69.50		June 2023
5	Perungudi TTUF	10	80.77		June 2023
6	CRRT, Langs Garden MSTP	10	67.85		June 2023
Total (6 Nos.)		304			
DMA					
7	Ambur	16.71	54		June -23
8	Vellore	50.0	91	-	June-23
9	Ponneri	6.52	40		Dec -23
10	Pammal&Anagaputhur	27.0	15		Dec -23
11	Rameshwaram	4.08	55	-	June-23

12	Tindivanam	11.44	2	Dec-23
13	Villupuram Added Area	4.56	Preliminary works started	Dec-23
Total 7		120.31		
CTP				
14	Sriperumbudur TP	8.50	97	5695/6000
15	Thiruporur TP	4.02	97	4479/4479
	Total (2Nos)	12.52		
	Grand Total (15 Nos)	436.83		

Note :In Trichy corporation revamping of Existing STP of 30 MLD work is cancelled , instead of that 100 MLD capacity STP is proposed to be taken up under AMRUT 2.0 with Modern technology,

Details of under construction FSTPs in Tamil Nadu

Sl.No.	Location	Capacity of the plant (MLD)	Physical Progress in %	Completion Timeline
	DMA			
1	Sirkali	0.02	97	Mar- 2023
2	Padmanabhapuram	0.02	75	Tender cancelled
3	Vedaranyam	0.02	92	May-2023
4	Aranthangi	0.02	81	May-2023
5	Coonoor	0.01	83	May-2023
6	Virudhachalam	0.04	95	May- 2023
7	Jayamkondan	0.02	93	May-2023
8	Gudalur	0.02	85	May- 2023
9	Chengalpattu	0.02	83	May-2023
10	Walajapet	0.03	32	Tender cancelled
11	Keelakarai	0.02	57	May- 2023
12	Sivakasi	0.04	47	June- 2023
13	Vaniyambadi	0.03	46	June-2023
14	Kuzhithurai	0.04	82	May- 2023
	Total 14	0.35		
	CTP			
15	Jalakandapuram TP	0.015	100 Civil works completed	Consulting TNPCB for NOC
16	Pennagaram TP	0.015	95	Notice issued to contractor, awaiting for retender.
17	Kaveripattinam TP	0.015	95	15.05.2023
18	Kurumbalur TP	0.010	95	10.05.2023
19	Pennadam TP	0.010	100 Civil works completed. Compound wall work in progress.	30.04.2023
	Total (5 Nos)	0.065		
	Grand Total (19 Nos)	0.415		

Details of proposed STPs in Tamil Nadu State

Sl. No.	Locations	Capacity of the STP proposed - MLD	Status of Project (at DPR Stage/ Under tendering/ work to be awarded)	
	DMA			
1	Trichirapalli	7.50	Retender stage	
2	Tirunelveli	10.0	Retender stage	
3	Musiri		DPR Stage	
4	PunjaiPugalur			
5	Mangadu			
6	Chitlapakkam		DPR Stage yet to be finalized	
7	Madampakkam			
8	Peerkanakaranai			
9	Perungalathur			
10	Thiruneermalai			
11	Trichirapalli	100		
	Total (11 Nos.)			
CTP			Status of Project	Remarks
12	Sirugamani TP		DPR Stage	DPR is under preparation by WAPCOS / PWD.
13	Mohanur TP		DPR Stage	
14	Velur TP		DPR Stage	
15	Bhavani sagar TP		DPR Stage	
16	Sirumugai TP		DPR Stage	
17	Madathukulam TP		DPR Stage	
18	Omalur TP		DPR Stage	
19	Poolampatty TP		DPR Stage	
20	Kuthalam TP		DPR Stage	
21	Thirukattupalli TP		DPR Stage	
22	Thiruvaiyaru TP		DPR Stage	
23	Pethanaickenpalayam TP		DPR Completed	Tamil Nadu Water Investment Company (M/s TWIC has been appointed as consultant for preparation of DPR. DPR submitted on 15.02.2022 by TWIC. DPR under scrutiny.
24	Yethapur TP		DPR Completed	
25	Belur TP		DPR Completed	
26	Srivaikundam TP		DPR Completed	
27	Authoor TP		DPR Completed	
28	Eral TP		DPR Completed	
29	Alwarthirunagari TP		DPR Completed	
30	Then Thirupera TP		DPR Completed	
31	Arumuganeri TP		DPR Completed	

32	Mukkudal TP		DPR Completed	The State High Powered Committee meeting held on 26.02.2022 has approved to establish Decentralised STP & DEWATS method. Administrative sanction issued on 21.03.2022 and works are in various stages.
33	Gopalamudram TP		DPR Completed	
34	Kallidaikurichi TP		DPR Completed	
35	Cheranmahadevi TP		DPR Completed	
36	Veeravanallur TP		DPR Completed	
37	Patthamadai TP		DPR Completed	
38	Mela Seval TP		DPR Completed	
39	Naranammalpuram TP			
	Total (28Nos)			
	Grand Total 39Nos			

Details of Proposed FSTPs in Tamil Nadu

Sl.No.	Location	Capacity of the plant (MLD)	Physical Progress in %	Completion Timeline
	DMA			
1	Colachel	0.04	-	Work is to be Commissioned
2	Manaparai	0.02	-	Work is to be Commissioned
3	Nellikuppam	0.02	-	
4	Panruti	0.03	-	
5	Usilampatti	0.02	-	
	Total (5)	0.13		Administrative Sanction issued

IV. Details of Industrial Pollution-TNPCB

Sl. No.	Details of Industries	State	PRS
1.	No. of industries in the State:	49,524	7,381
2.	No. of water polluting industries in the State:	11,538	1,770
3.	Quantity of effluent generated from the industries in MLD:	2,835.7	452.7
4.	Quantity of Hazardous Sludge generated from the Industries.	9,64,810 T/A	-
5.	No. of industrial units having ETPs:	11,538	1,770
6.	No. of industrial units connected to CETP:	1,497	Nil
7.	No. and total capacity of ETPs (details of existing/ under construction / proposed)	-	-
8.	Compliance status of the ETPs:	11,538 Industrial units provided Zero liquid discharge system and there is no discharge into the water bodies	

9.	Number and total capacity of CETPs (details of existing/ under construction / proposed)	Existing – 36 Nos. (99 MLD). 35 CETPs in operation:1 No is closed. Proposed – 10 Nos., Capacity 41 MLD. Note: Some member units are in operation with adequate treatment systems. Other balance units have not been constructed.
		Under Construction 1 CETP at Kanchipuram (members 76 Nos.)-3650 KLD capacity.
10	Status of compliance and operation of the CETPs	Details furnished below

Status of compliance and operation of the CETPs in the State-TNPCB

Sl. No.	Location	No. of CETPs	No. of industrial units connected to CETP.	Restricted Quantity for CETPs (KLD)	Status of CETPs	Compliance Status TNPCB Norms.
1	Talco Trichy Tannery CETP- Trichy	1	5	201.4	Operation	Complied
2	Talco Dindigul Tanners Enviro Control CETP-Dindigul	1	49	1517	Operation	Complied
3	Perundurai Leather Eco – Security CETP -Perundurai	1	14	1000	Operation	Complied
4	Ambur Tannery CETP-Thuthipet Sector-Ambur	1	49	1150	Operation	Complied
5	Ambur Tannery CETP-Maligaithope Sector - Ambur	1	17	330	Operation	Complied
6	Talco Peranambut Tannery CETP - Vellore	1	36	600	Operation	Complied
7	Vanitech Ltd - CETP Vaniyambadi	1	133	2000	Operation	Complied
8	Ranipet Tannery CETP - Ranipet	1	82	3600	Operation	Complied
9	Ranipet SIDCO Finished Leather CETP -Ranipet	1	79	1875	Operation	Complied

10	SIPCOT & SIDCO Phase 11 Entrepreneur Finished Leather CETP - Ranipet	1	20	700	Operation	Complied
11	Vishram Tanners Enviro Control systems Pvt Ltd CETP – Visharam - Ranipet	1	36	669	Operation	Complied
12	Madhavaram Leather CETP - Madhavaram	1	14	400	Operation	Complied
13	Pallavaram Tanners CETP - Pallavaram	1	119	3000	Operation	Complied
14	Madurai Electro platers CETP - Sivagangi	1	48	49.6	Operation	Not Complied
15	Ambattur Electro Platers CETP Ambattur	1	211	200	Operation	Complied
16	Eastern CETP - Tiruppur	1	75	4500	Operation	Complied
17	PND Textille CETP -Tiruppur	1	6	2000	Operation	Complied
18	AngaripalayamCET P–Tiruppur	1	29	9000	Operation	Complied
19	KunnagalpalayamC ETP- Tiruppur	1	12	2585	Operation	Complied
20	MurugampalayamC ETP-Tiruppur	1	18	7177	Operation	Complied
21	Andi palayam CETP- Tiruppur	1	60	1911	Operation	Complied
22	Kasi palayamCETP- Tiruppur	1	28	3520	Operation	Complied
23	Mannarai CETP- Tiruppur	1	69	3748	Operation	Complied
24	VeerapandiCETP- Tiruppur	1	4	10758	Operation	Complied
25	Park CETP - Tiruppur	1	17	2250	Operation	Complied

26	ArulpuramCETP-Tiruppur	1	23	4950	Operation	Complied
27	SripulavapattiCETP-Tiruppur	1	12	4500	Operation	Complied
28	Kalli kaduCETP-Tiruppur	1	8	2700	Operation	Complied
29	VelluvapalayamCETP- Tiruppur	1	15	195	Operation	Complied
30	Mangalam CETP-Tiruppur	1	15	2485	Operation	Complied
31	KaraipudurCETP-Tiruppur	1	19	2681	Operation	Complied
32	RayapuramCETP-Tiruppur	1	25	4950	Operation	Complied
33	ChinnakariCETP-Tiruppur	1	9	6561	Operation	Complied
34	Textile Sector CETP- SIPCOT Perundurai	1	14	2681	Operation	Complied
35	Textile Association CETP - Kanchipuram	1	62	1500	Not in operation	Not Complied (Closed)
36	Hotel Association CETP- Kodaikanal	1	40	850	Operation	Complied
Total		36	1472	98794		

Note:

1. The CETP, **Kanchipuram** was closed by the TNPCB and the power supply was disconnected on 01.07.2019, as the CETPhas not implemented ZLD. The member units were also closed and power supplies disconnected. Hence, the member units are not in operation. As the CETP, Kanchipuram is closed, consent to Establishment order has been issued by the TNPCB for an another CETP for establishment(M/S Peraringnar Anna Handloom Silk Park Ltd, Kanchipuram) and the works are under progress.
2. Closure directions issued to Madurai Electroplaters CETP for not providing OCEMS. The CETP obtained stay order from the Hon'ble High Court of Madras (Madurai Bench) and the CETP is in operation.

Details of CETP Under Construction in the State

Sl. No.	Location	Name of CETPs	CETP Capacity (MLD)	Status
1.	Kanchipuram	M/S Peraringnar Anna Handloom Silk Park Ltd, Kanchipuram.	3.650	Under construction.

Note : 76 Member units are under construction.

Details of CETPs Proposed in the State

Sl. No.	Location	Name of CETPs	CETP Capacity (MLD)	Status
1.	Perundurai	Sree Bhavani Dyeing Cluster Development Limited, Perundurai Taluk, Erode District.	4	1.The Secretary, Ministry of Textiles, GOI, New Delhi addressed vide letter No. 16.06.2021 to the Chief Secretary, Government of Tamil Nadu wherein it has been stated that the funding pattern to the CETPs is under revision for next five years.
2.	Perundurai	Kadayampatti CETP Private Limited, Bhavani,Perundurai Taluk, Erode District	6.25	
3.	Perundurai	Kadayampatti Common Reject Management Systems Private Limited (CRMS), Perundurai Taluk, Erode District	1.75	
4.	Erode	Gangapuram CETP Private Limited, Erode Taluk & District	4.5	
5.	Erode	Villarasampatti CETP Private Limited, Erode Taluk & District	4.5	
6.	Erode	M/s.SuriyampalayamCETP Private Limited, Erode	4.2	2.No member units in operation without ZLD system; Other member units are proposed industries only, ie. Green sites only
7.	Erode	M/s. Green Kalingarayan CETP Private Limited,Erode	5.8	
8.	Erode	M/s. Erode CETP Private Limited (CRMS), Erode.	2.0	
9	Kumarapalayam	M/s. Kumarapalayam Green Cauvery Dyeing Cluster,Kumarapalayam	5.0	
10	Kumarapalayam	M/s. Green Environmental Association, Pallipalayam&Kumarapalayam,Namakal dist.	3.0	3. GOI share is awaited.
TOTAL - 10 CETPs			41	

V .Solid Waste Management:

No	Solid Waste Management	State	PRS
1.	Total number of Urban Local Bodies	649	48
2.	Current Municipal Solid Waste Generation (TPD)	ULB- 15,214 Note: The MSW ofRLB is furnished separately in the dossier below.	ULB- 1786.8
3.	a. Number of facilities b. Installed capacity –TPD c. Utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), bio-methanation, MRF,etc	*3690(DMA-2023+CTP-1219+ GCC-448) *9709 (DMA-6193+CTP-1448+GCC-2068) 8109(DMA-5396 +CTP-1448+GCC-1265)	446 1489 1294
4.	Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)	1. It is proposed to increase the segregation, collection and treatment of MSWs. 2. The non-bio-gradable waste such as plastic wastes, etc. will be segregated and disposed scientifically. 3.Continuous awareness being created for source segregation and fixing target to achieve goal and periodically reviewed.	
5.	No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)	Existing -2 Nos. of400 TPD (each) Proposed – 3 Nos. at Coimbatore, Trichy and Madurai.	Nil
6.	Total No. of wards (ULBs) No. of wards having door to door collection service, No. of wards practicing segregation at source	12,999 12,518 11,428	1182 1161 1051
7	Details of MSW treatment facilities proposed and under construction (No., capacity, and technology)	Proposed -41 Nos. (DMA-18 ,CTP – 15, GCC – 8). Capacity :2230 TPD (DMA-2230 TPD)	6 No. 645 TPD

		Under Construction-* 217Nos. (DMA-210+ CTP-1+GCC-6), Capacity 1802 TPD.(DMA-1282+GCC-520) 6 incinerator plants of 35 TPD & 9 pyrolysis plants of 0.9 TPD are completed and are in trial run.	34Nos, 281 TPD
		(Technology: Windrow composting, Vermi composting, Bio-gas production, Incineration, Pyrolysis, Micro composting, Organic Compositing, Resource Recovery)	
8.	No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.	Uncontrolled garbage dumpsite - Nil. Sanitary land fill – Nil Bio-mining : Total quantity of Legacy waste generated 1,32,36,396Cum. Total quantity of Legacy Waste biominced upto the month of March 2023 is 1,31,78,930.37Cum Note:1)98 ULBs, have achieved 100% biomining. 2)The Commissionerate of Town Panchayats, Government of Tamil Nadu has increased the Quantum of Legacy waste.	
9.	No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers	Nil	
10.	No. of drains falling into rivers and No. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers	29 MSW drains fall into water bodies.	

Rural Development and Panchayat Raj (RD & PR)

No.	Solid Waste Management	State	PRS
1.	Current Municipal Solid Waste Generation TPD	1272	8.30
2.	Number of Village Panchayats	12525	31
3.	Details of MSW treatment facilities proposed(Nos)	287	1

Status of ULB wise Management of Solid Waste-DMA, CTP& Greater Chennai Corporation (GCC)

ULBs	Total MSW generation (TPD)	Total MSW processed (TPD)	Existing MSW Facilities	Utilization Capacity of MSW facilities (TPD)	Proposed MSW Facilities& Completion timeline
DMA	7518	6193	Windrow/Vermi composting, Biogas generation	5396	100 Nos. of MSW treatment facilities are under construction& 10 Nos. of facilities are proposed.
CTP	1805	1573	Pyrolysis, biocomposting.	1573	Incinerators & Pyrolysis are under progress for processing non-recyclable dry waste on cluster basis.
GCC	5891	1265	Windrow/Vermi composting, Bio-gas generation	1224	9 Nos. of MSW treatment facilities are under construction.
Total	15214	9031		8193	

VI.Bio-medical Waste Management (BWM):

S.N	BWM	State	PRS
1.	Total Bio-medical generation (TPD)	a) Authorized quantity : 101.531 T/Day. b) Average generation : 45 T/day.	Authorized quantity: 10.677T/Day
2.	No. of Hospitals and Health Care Facilities:	28,550	6220
3.	Status of Treatment Facility/ CBMWTF:	Total -12 Nos. 10- Facilities under operation, 2-Facilities - Issued Closure order by TNPCB for non- compliance. 3 Nos Commonfacilities (CBMWTFs) are under establishment in Hosur, Gummidipoondi & Tiruppur .	

VII. Hazardous Waste Management (HWM)

S.No	Hazardous Waste Management	Tamil Nadu State
1.	Total Hazardous Waste generation	Total : 9.64810 lakhs T/A Recyclable:1.2081 lakhs T/A Utilizable : 7.30 lakhs T/A Land fillable : 0.90 lakhs T/A Incinerable : 0.24 lakhs T/A
2.	No. of Industries generating HW	4,199 units
3.	Treatment Capacity of all TSDFs	<u>2 Nos. of M/s Tamil Nadu Waste Management Limited (TNWML) Facility :</u> a. <u>TSDF Gummidipoondi</u> : Permitted land fillable hazardous waste in SLF- 1,00,000 T/A Permitted for Incineration of hazardous waste with incinerator of capacity-1.5 T/Hr. b. <u>TSDF Viruthunagar</u> : Permitted land fillable hazardous waste in SLF-2,40,000 T/A
4.	Average Quantity of Hazardous waste reaching the TSDFs and treated	Land fillable hazardous waste- 90,296 T/A Incinerable hazardous waste- 7312 T/A
5.	Details of on-going or proposed TSDF	A common TSDF is proposed by TNWML (Unit-3) at Balethottam village, Pochampalli Taluk, Krishnagiri District for which CTE is granted under Water & Air Acts for direct landfillable Hazardous waste -83 TPD & treated landfillable hazardous waste -166 TPD.

VIII. Plastic Waste Management

Plastic Waste Management	STATE	PRS
Total Plastic Waste generation (TPD)	1124	109.2

Treatment/ Measures adopted for reduction or management of plastic waste	Recyclable/ Saleable plastics are sold to authorized vendors. Non-saleable plastics are sent to cement factories for co-incineration and also used as a component for laying roads. Incinerators & pyrolysis plants are under progress for processing non-recyclable dry waste in cluster basis. A plastic Shredding unit is available at each district under SWM Scheme. All the ULBs are enforcing source segregation of wastes and the saleable fraction of plastic wastes are sold to recyclers and remuneration is paid back to sanitary workers. Apart from that, a total quantity of 1110 MT of single use plastics had been seized and a penalty of Rs.5.48 crore has been levied. The seized plastics are stored at Resource Recovery Centers (RRC) and disposed to Cement industries. The Government of Tamil Nadu has banned the single use plastics. The Government of Tamil Nadu has issued orders vide G.O(MS)No:116 Environment Climate Change and Forests Department, to use cloth bags instead of plastic carry bags.
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IX. Details of Alternate Treatment Technology being adopted by the State/UT: Nil

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

Total out falls in Six Polluted River Stretches			
Sl.No.	Name of the river	Total No of Out falls.	Remarks
1	Sarabanga	28	STPs / FSTPs are under construction. To bridge the gap STPs / FSTPs proposals are evolved.
2	Vasista	5	
3	Cauvery	39	
4	Thirumanimutharu	7	
5	Bhavani	40	
6	Tamirabarani	20	
	Grand Total	139	

Note : No MSW is discharged into the Polluted River Stretches.

XI. Details of Nodal Officer appointed by Chief Secretary in the State/UT: Nodal officers have been nominated vide G.O.Ms No.64 Environment and Forests (EC.2) Department dated 03.10.2020 by the Government of Tamil Nadu.

XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT: Environment Monitoring Cell meeting has been conducted by the Additional Chief Secretary to Government of Tamil

Nadu, Environment and Forests Department, on 23.12.2020. The Chief Secretary to Government of Tamil Nadu has reviewed the progress on 20.04.2022.

XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river.

**Latest water quality of the polluted river stretches for the month of
March 2023**

Sl.No.	Name of the River	No of Monitoring Locations	BOD mg/l
1	Sarabanga	1	27
2	Thirumanimutharu	1	21
3	Vasista	1	60
4	Cauvery	19	<2 –2.4
5	Bhavani	7	< 2 – 2.1
6	Thamirabarani	12	<2
7.	Amaravathi	2	<2
8.	Palar	1	<2
9.	Cooum	7	5 - 48
10.	Adyar	7	8 - 40

Source: TNPCB

Ground water quality in the catchment of polluted rivers-PWD

Name of the River	Ground water quality
Sarabanga	The State Ground and Surface Water Resources Data Centre (SG&SWRDC) has provided monitoring wells for observation of ground water quality in Danishpet, Omalur, Idaipadi, Thevur and Tharamangalam areas. The Total Dissolved Solids (TDS) of this stretch is found to be vary between 227 mg/L to 1081 mg/L. range of moderate quality.
Thirumanimutharu	The SG&SWRDC provided monitoring wells in Salem, Attayampatti and Palapatti areas. The TDS in this stretch vary between 765 mg/Lto 1197 mg/L.
Vasista	The SG&SWRDC is having monitoring wells in Papanaiickenpatti, Yethapur, Athur and Thalaivasal. The TDS value is between 301 mg/L to 1096 mg/L

Cauvery	The SG&SWRDC is having ground water quality data for the areas of Dharmapuri, Mettur, Bhavani, Salem, Paramathivelur, Kumarapalayam, Karur, Erode, Musiri, Trichy, Kulithalai, Kumbakonam and Mayiladuthurai and in Dharmapuri the TDS varies between 412 mg/L to 1751 mg/L, at Salem the water quality varies between 384 to 2967 mg/l, at Namakkal the TDS exceed even 5000 mg/L. At Thanjavur and Cuddalore in most of the locations the water quality is found to vary between good and moderate and at few places of Cuddalore TDS values is more than 6000 mg/l
Bhavani	The general distribution of ground water quality varies between Good to moderate level.
Thamirabarani	The collected water quality data of Cheranmadevi, Thiruvudaimaruthur, Ambasamudram, Thirunelveli, Palayamkottai, and Ariyanaygipuram showed good, poor and moderate quality based on TDS.

XIV. Ground water regulation-PWD

Name of the River	Ground water regulation
Sarabanga	For effective management of Ground Water, 683 packaged drinking water firms operated illegally have been closed as per Honorable Madras High Court order passed under WP No.16299 / 2018. In the Tamirabarani basin, 9 illegally operating firms have been sealed and closed.
Thirumanimutharu	
Vasista	
Cauvery	
Bhavani	A Comprehensive Groundwater (Management and Development) Act, to regulate and manage the extraction of Groundwater is under active consideration of the Government of Tamil Nadu. The draft act has been approved by the high level technical committee headed by the Chief Secretary.
Thamirabarani	

XV. Good irrigation practices being adopted by the State-PWD:

Name of the River	Good irrigation practices being adopted by the State
Sarabanga	Awareness meetings are conducted under TNIAMP, ADB & State Funds. In some parts of the reach DRIP irrigation is practiced.
Thirumanimutharu	
Vasista	
Cauvery	
Bhavani	
Thamirabarani	Village level awareness campaigns are conducted periodically by PWD officials to adopt the crop rotation for good irrigation practices. Rehabilitation and modernization of Tanks, Anicuts and Supply channels are being carried out in

	TNIAMP projects per GO Ms No: 140 PW (WR 1) Dept Dt: 21.06.2017 for an amount of Rs.107.09 crores. Kudimaramath works as per G.O (Ms).No.98PW(W1)Dept/Dt: 22.04.2020 for an amount of Rs. 16.365 Crores is carried out in Tirunelveli and Thoothukudi Districts.
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XVI. Rain Water Harvesting-PWD

Name of the River	Existing Structures (Nos)	Ongoing Works (Nos)	Proposed Works (Nos)
Sarabanga	5	2	10-Recharge Wells
Thirumanimutharu	6	--	14-Recharge Wells
Vasista	16	--	--
Cauvery	44	10	29
Bhavani	41	1-Check dams 5 - Recharge shafts	--
Thamirabarani	7	4	Total - 230Nos. Barrages 3 Nos.–Rs.230 Crores. Artificial Recharge well 221 Nos, Recharge shaft 4 Nos. -Rs. 88.496Crores.
Total	119	22	283

XVII.Demarcation of Flood plain and removal of illegal encroachments - PWD:

Name of the River	Demarcation of Floodplain and removal of illegal encroachments
Sarabanga	Drone Survey completed by WAPCOS in January 2021. The draft DPR prepared by M/s.WAPCOS for conducting the above survey for identification of flood plain zones and area for afforestation to maintain Bio Diversity has been submitted and scrutization of DPR is done by NCRD during March 2022 and finalization of DPR – Phase – I is done and sent to the Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR- Phase -I is around 1205.50 crores. Encroachment if any is identified during the survey will be evicted and other management works will be completed and rehabilitation and resettlement will be done.
Vasista	
	No Flood plains zones/encroachment have been identified.

Cauvery	Drone Survey completed by WAPCOS in January 2021. The draft DPR prepared by M/s.WAPCOS for conducting the above survey for identification of flood plain zones and area for afforestation to maintain Bio Diversity has been submitted and scrutization of DPR is done by NCRD during March 2022 and finalization of DPR – Phase – I is done and sent to the Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR- Phase -I is around 1205.50 crores. Encroachment if any is identified during the survey will be evicted and other management works will be completed and rehabilitation and resettlement will be done.
Bhavani	Drone Survey completed by WAPCOS in January 2021. The draft DPR prepared by M/s.WAPCOS for conducting the above survey for identification of flood plain zones and area for afforestation to maintain Bio Diversity has been submitted and scrutization of DPR is done by NCRD during March 2022 and finalization of DPR – Phase – I is done and sent to the Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR- Phase -I is around 1205.50 crores. b.55 Nos of encroachments are to be removed which belong to fishing community. Recommendations for alternate land has been sent to Secretary to Government, Revenue department by Commissioner for Revenue administration vide letter No F.2/41632/2005/Dt.15.2.2006.
Thamirabarani	a. To prepare comprehensive flood protection plan for Thamirabarani River Rs. 4.00 Lakhs has been allotted vide GO Ms. No. 37 Revenue (DMII) Department 9.02.2017. Estimate has been prepared for Rs. 4.00 Lakhs for the demarcation of Flood plain zone and steps are being taken for the protection and management of Flood plain Zones of Thamirabarani . b. In Tirunelveli Corporation, Prosopis juliflora on the river stretches for a length of 10km from Vilagam to Naranammalpuram river bridge were removed at a cost of 140.00 lakhs vide GO(2D) No. 14 PW (P2) Dept Dated 8.03.2019 to restore the River course for a free flow of flood water.

	c. In River Banks of the Thamirabarani, the following encroachments were identified& demarcated by the water resource department/Public works department. The issue of eviction notices to the encroachers under eviction of encroachment act is under progress in Tirunelveli and Thoothukudi District. <table><tr><th>Sl. No.</th><th>District</th><th>Encroachment Nos.</th><th>Evicted Nos.</th><th>Balance to be evicted Nos.</th></tr><tr><td>1.</td><td>Tirunelveli</td><td>683</td><td>639</td><td>44</td></tr><tr><td>2.</td><td>Thoothukudi</td><td>1084</td><td>117</td><td>967</td></tr><tr><td></td><td>Total</td><td>1767</td><td>756</td><td>1011</td></tr></table>	Sl. No.	District	Encroachment Nos.	Evicted Nos.	Balance to be evicted Nos.	1.	Tirunelveli	683	639	44	2.	Thoothukudi	1084	117	967		Total	1767	756	1011
Sl. No.	District	Encroachment Nos.	Evicted Nos.	Balance to be evicted Nos.																	
1.	Tirunelveli	683	639	44																	
2.	Thoothukudi	1084	117	967																	
	Total	1767	756	1011																	

XVIII. Maintaining minimum e-flow of river-PWD:

Name of the River	Maintaining minimum e-flow of river
Sarabanga	This river is only a flood carrier. The sewage water enters in to the river in Edapaddi Municipality, Omalur Town Panchayat and Poolampatti Town Panchayat. The above treatment plants are proposed under NadanthaiVaazhi Cauvery for which a draft DPR has been prepared by M/s. WAPCOS, has been submitted and is under the scrutinization of the DPR is done by NCRD during March 2022 and finalization of DPR – Phase – I is done and sent to the Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR- Phase -I is around 1205.50 crores. E flow will be maintained in this river after completion sewage treatment plants. The treated water will flow as environmental flow.
Thirumanimutharu	This river is only a flood carrier. The sewage water enters in to the river in Salem Corporation. Treatment plants have been proposed under NadanthaiVaazhi Cauvery for which a draft DPR has been prepared by M/s. WAPCOS, has been submitted and is under the scrutinization of the DPR is done by NCRD during March 2022 and finalization of DPR – Phase – I is done and sent to the Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR- Phase -I is around 1205.50 crores. E flow will be maintained in this river after completion of sewage treatment

	plants, as the treated water will flow as environmental flow.
Vasista	This river is only a flood carrier. But the sewage water enters in to the river in Attur and Narasingapuram Municipality. After completion of sewage treatment plants in the above locations, the treated water will flow as environment flow.
Cauvery	Mettur dam is opened for irrigation from June 12 th to January 28 th based on availability of water every year. It is opened for drinking purpose in the remaining days, during the monsoon period at flood time the maximum food discharge in the river has been 284606 cusecs on 08.07.1961. Usually a monthly minimum average E flow of 0.10 TMC is maintained. The E flow is maintained for more than 8 months. During the month of March 2023 an E Flow of 0.107 TMC was maintained.
Bhavani	An E flow of 21,066 cusecs (including Irrigation purpose) was maintained in the river Bhavani during the Month of March 2023.
Thamirabarani	An average of 383.75 cusecs of water is released into the river in the month of March 2023 to ensure minimum environmental flow.

XIX. Plantation activities along the rivers-PWD

Name of the River	Plantation activities along the Rivers
Sarabanga	It is proposed to plant around 32,400 samplings under Nadanthai Vaazhi Cauvery for which a draft DPR has been prepared by M/s. WAPCOS, has been submitted and is under the scrutinization of the DPR is done by NCRD during March 2022 and finalization of DPR – Phase – I is done and sent to the Engineer-in-Chief & Chief Engineer (General), WRD, Chempauk, Chennai for funding. The tentative cost of the DPR- Phase -I is around 1205.50 crores.
Thirumanimutharu	It is proposed to plant around 42,000 saplings samplings under Nadanthai Vaazhi Cauvery for which a draft DPR has been prepared by M/s. WAPCOS, has been submitted and is under the scrutinization of the DPR is done by NCRD during March 2022 and finalization of DPR – Phase – I is done and sent to the Engineer-in-Chief & Chief Engineer (General), WRD, Chempauk, Chennai for funding. The tentative cost of the DPR- Phase -I is around 1205.50 crores.
Vasista	There is no proposal at present.

Cauvery	It is proposed to plant around 1,44,500 saplings under NadanthaiVaazhi Cauvery for which a draft DPR prepared by M/s. WAPCOS, has been submitted and is under the scrutinization of the DPR is done by NCRD during March 2022 and finalization of DPR – Phase – I is done and sent to the Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR- Phase -I is around 1205.50 crores.
Bhavani	It is proposed to plant around 86,500 saplings under Nadanthai Vaazhi Cauvery for which a draft DPR prepared by M/s. WAPCOS and submitted and scrutinization of the DPR is done by NCRD during March 2022 and finalization of DPR – Phase – I is done and sent to the Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR- Phase -I is around 1205.50 crores.
Thamirabarani	At present there is no proposal on plantation on the River Banks and investigation works are being taken to implement it by Forest Department.

XX. Development of biodiversity park - PWD

Name of the River	Development of Biodiversity park
Sarabanga	Drone Survey has been completed by M/s.WAPCOS in January 2021. A draft DPR prepared by M/s.WAPCOS has been submitted and the scrutinization of DPR is done by NCRD during March 2022 and finalization of DPR – Phase – I is done and sent to the Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR- Phase -I is around 1205.50 crores.
Thirumanimutharu	
Vasista	There is no proposal at present.
Cauvery	Drone Survey has been completed by M/s.WAPCOS in January 2021. A draft DPR prepared by M/s.WAPCOS has been submitted and scrutinization of DPR is done by NCRD during March 2022 and finalization of DPR – Phase – I is done and sent to the Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR- Phase -I is around 1205.50 crores.
Bhavani	

Thamirabarani	At present there is no proposal on biodiversity parks on the encroached River stretches and investigation works are being taken to implement it. <u>Rejuvenation of River Thamirabarani</u> :ADPR for rejuvenation of River Thamirabarani and its tributaries have been prepared for Rs.1024 Crores by the environmental wing of Water Resources Department and has been submitted to the Engineer in Chief and Chief Engineer (General). It is under perusal for onward submission to the Govt. of TamilNadu.
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XXI. Reuse of Treated Water - DMA

The policy for promotion of use of Treated Waste Water is prepared with a vision to maximize the collection & treatment of sewage generated and reuse of treated waste water on a sustainable basis, thereby reducing dependency on fresh water resources. Further, the policy promotes use of treated waste water as an economic resource.

In this regard, Tamil Nadu Government has launched waste water reuse policy during December 2019. At present Memorandum of Understanding (MoU) has been executed between the ULB and the user agency for the re-use of secondary treated effluent water.

S. No.	Name of the ULB	Quantity (MLD)	Usage/ Purpose
1	Nagapattinam	2.0	M/s KVK Power for cooling purpose
2	Dindugul	5.0	To maintain the TDS level of Tanners for Agro- forestry.
3	Tirunelveli	24.0	Nanguneri Special Economic Zone (SEZ) for Industries
4	Perambalur	3.0	MRF Industrial use
5	Ramanathapuram	3.0	NTC Infra
6	Coimbatore	15.0	Agricultural use to farmers association
7	Pollachi	11.50	Agricultural use to farmers association
8	Chinnamannur	3.0	Agricultural use
9	Karur	7.0	Agricultural use
10	Arakkonam	7.0	MRF Industrial use
Total		80.5	

XXII.Model River being adopted by the State & Action Proposed for achieving the bathing quality Standards:RiverBhavani.

Model River Bhavani:

- River Bhavani has been classified as a polluted river stretch based on the monitoring done during 2019 & 2021 and classified under priority - V.

- The monitoring continued until date under the NWMP programme and shows that during the last 5 years the level of BOD value is less than 2 mg/l.
- The reasons attributed for low BOD, high DO is due to low faecal coliforms in the river water.
- Dumping of Municipal Solid Waste along the stretches of Bhavani has been stopped and the guidelines for solid waste management (segregation, recycling, composting, etc.) are followed scrupulously.
- A major polluting industry by name M/s. South India Viscose at Sirumugai- at the bank of the river has been closed
- Industries involved in textile dyeing, tannery activities, etc., have provided ETPs with zero liquid discharge systems.
- All paper mills located in Sathyamangalam having access to River Bhavani have been made to adopt best practices by way of pulp recovery and reuse of water in their process thereby preventing any discharges leading to the river.
- M/s.Sakthi Sugars Ltd., at Aapakudal in Erode District once permitted for fert- irrigation has been stopped and made to use effluent for composting.
- Under the Swatch Bharat Scheme the houses in Bhavanisagar Town Panchayat, Sirumugai Town Panchayat, Uratchikottai Villages are provided with septic tanks and soak pit facilities to prevent the discharge of fecal sludge into the river.
- TNPCB has proposed to conduct awareness programme at a cost of Rs.8,00,000/- (Rs. Eight lakhs only) along the Bhavani River stretch.

XXIII. Status of Preparation of Action Plan by the 14 Coastal States:

The Government of Tamil Nadu vide G.O.MS No.64 Environment and Forests (EC.2) Department dated :03.10.2020, instructed the Department of Environment for preparation of action plan for the coastal and marine pollution. However, the TNPCB has addressed NIOT, Chennai, National Centre for Coastal Research (NCCR), Chennai and IIT, Chennai to furnish quotations to prepare action plans. The NCCR has furnished quotation to carry out the works. A committee has been constituted to examine the NCCR report on completion of Committee meeting, the work may be allocated to NCCR for execution.

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

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

Closure directions have been issued to CETP at Kanchipuram. The CETP and the member units are not in operation. The power supply to the CETP and the member units were disconnected.

Also, closure directions have been issued to CETP, Sivagangai by the Tamil Nadu Pollution Control Board. The CETP is in operation by getting stay order from Hon'ble High Court of Judicature, Madras (Madurai Bench).

XXVI. IDOL IMMERSION :

The Government of Tamil Nadu in view to maintain public peace, tranquility, public safety, regulation of traffic and control of pollution due to immersion of idols in Rivers notified guidelines in Government gazette and was published on 09.08.2018. Awareness programmes were conducted through District Collectors in all the District headquarters and towns requesting the public to:

- I. Avoid usage of plaster of paris and paints to make the Vinayagar idols.
- II. Encourage the use of clay for making idols as a tradition.
- III. Remove the worship materials like flowers, clothes, decorating materials etc., before immersion of idols.
- IV. Collect bio-degradable materials and to segregate materials separately for recycling or composting and for disposal in sanitary landfills respectively.
- V. Immerse the idols in designated water bodies identified by the District Administration and to follow the Government guidelines scrupulously.

Also, the following actions have been taken by the Government of Tamil Nadu and by Tamil Nadu Pollution Control Board.

- a) The Government of Tamil Nadu have issued orders vide G.O. MS No.765 public (law and order) Department date 30.08.2021 to obey the Hon'ble Supreme Court orders in case No.11366/2020, 11467/2020, etc., regarding idols immersions and celebrations of festivals.
- b) The Tamil Nadu Pollution Control Board published idols immersion locations district wise. Guidelines of Central Pollution Control Board, Ministry of Environment and Forests, Department May 12th 2020 notification have been published in local news papers for creating public awareness.
- c) The Board monitors water quality of the said water bodies before & after immersion of idols. Idols were not immersed during the 2020-2021 Vinayagar Chaturthi due to COVID-19 pandemic, hence no water samples were collected from the designated water bodies. During 2022 – 2023 water samples have been collected and analysed. The water bodies are being monitored by the Tamil Nadu Pollution Control Board.

**Gist of Report on the progress made on the Polluted River Stretches
Tamil Nadu State
Month: March 2023.**

Sl. No.	Details of works	Action taken
1	Polluted River Stretches identified	Priority-I RiverVasista,Thirumanimutharu, Adyar &Coovum; Priority-II River Sarabanga; Priority-III River Cauvery ; Priority -IV River Tamiraparani& Priority -V River Bhavani, Amaravathi&Palar.
2	Sewage Generation	3938.29 MLD in Tamil Nadu.
3.a.	Existing STPs	There are 99 STPs in operation with treatment capacity of 2172.47 MLD and 32 FSTPs of 0.924 MLD capacity. In addition, 957 MLD of sewage is treated using alternate technologies.
b.	Under construction STPs	15 STPs (436.83 MLD capacity) and 19 FSTPs (0.415 MLD capacity) are under construction and they are at various stages of implementation. Incremental increase of 0.051 to 20.0 % has been achieved during March 2023. The incremental progress of the under construction projects of STPs/FSTPs are furnished as annexure-1 .
c.	Proposed STPs:	39 STPs are proposed to fill the gap of treatment of sewage.
4 a.	Existing MSW treatment :	a) Generation –15214 TPD . b) Treatment capacity -9709 TPD(annexure-2)
b	Under construction MSW Facilities:	217 MSW facilities are being constructed to a capacity of 1802 TPD .
c.	Proposed MSW Facilities	41 Nos. of facilities are proposed to a capacity of 2230 TPD .
d	Bio -mining	a) Generated- 1,32,36,396Cum . b)Treated- 1,31,78,930Cum .

5 a.	Existing CETPs	There are 36 CETPs existing in the State with a capacity of 98794 KLD. Out of the 36 CETPs, 35 CETPs are in operation, one CETP (Kanchipuram) has been closed for non-compliance of Board orders. Closure directions issued to Madurai Electroplaters CETP for not providing OCEMS by the TNPCB. The CETP has obtained stay order from the Hon'ble High Court of Madras (Madurai bench) and it is in operation.
b.	Proposed CETPs :	Along the polluted river stretches, 10 CETPs of 41 MLD are proposed for dyeing units and they are under proposal stage and not in operation. The DPRs for CETPs have been forwarded to the Ministry of Textiles, Govt. of India for funding during 2017-2021 and fund is awaited. No industry is in operation without zero liquid discharge system.
6.	Biomedical waste management	a) No of units - 28,550 b) Authorised quantity of BMW -101.531T/Day. c) Average generation –45T/Day.
7	Hazardous Waste Management	Total hazardous Waste generation is 9.64810 lakhs ton per annum. Out of which re-cyclable is 1.2081 lakhs ton/annum, utilizable is 7.30 lakhs ton/annum, land fillable is 0.9 lakhs ton/annum and incinerable is 0.24 lakhs tons/annum.
8	Coastal Management Plan:	The Government of TN issued orders to Director of Environment, Government of TN, vide G.O.MS No.64 Environment & Forest (EC.2) Department dated 03.10.2020 to prepare action plans. However, the TNPCB has addressed NIOT, Chennai, National Centre for Coastal Research(NCCR), Chennai & IIT, Chennai to furnish quotations to prepare action plans. The NCCR has furnished quotation to carry out the works. A committee has been constituted to examine the quotation of NCCR report. On completion of the committee meeting the project may be handed over to NCCR for execution.

9	Water Quality in Polluted River Stretches March 2023. <table><tr><th>Sl. No.</th><th>Name of the River</th><th>No.of Monitoring Locations</th><th>BOD mg/l</th><th>Bathing Standards</th></tr><tr><td>1</td><td>Sarabanga</td><td>1</td><td>27</td><td rowspan="9">BOD < 3 mg/l</td></tr><tr><td>2</td><td>Thirumanimutharu</td><td>1</td><td>21</td></tr><tr><td>3</td><td>Vasista</td><td>1</td><td>60</td></tr><tr><td>4</td><td>Cauvery</td><td>19</td><td><2 – 2.4</td></tr><tr><td>5</td><td>Bhavani</td><td>7</td><td>< 2 – 2.1</td></tr><tr><td>6</td><td>Thamirabarani</td><td>12</td><td><2</td></tr><tr><td>7.</td><td>Amaravathi</td><td>2</td><td><2</td></tr><tr><td>8.</td><td>Palar</td><td>1</td><td><2</td></tr><tr><td>9.</td><td>Cooum</td><td>7</td><td>5 - 48</td></tr><tr><td>10.</td><td>Adyar</td><td>7</td><td>8 - 40</td><td></td></tr></table>	Sl. No.	Name of the River	No.of Monitoring Locations	BOD mg/l	Bathing Standards	1	Sarabanga	1	27	BOD < 3 mg/l	2	Thirumanimutharu	1	21	3	Vasista	1	60	4	Cauvery	19	<2 – 2.4	5	Bhavani	7	< 2 – 2.1	6	Thamirabarani	12	<2	7.	Amaravathi	2	<2	8.	Palar	1	<2	9.	Cooum	7	5 - 48	10.	Adyar	7	8 - 40	
Sl. No.	Name of the River	No.of Monitoring Locations	BOD mg/l	Bathing Standards																																												
1	Sarabanga	1	27	BOD < 3 mg/l																																												
2	Thirumanimutharu	1	21																																													
3	Vasista	1	60																																													
4	Cauvery	19	<2 – 2.4																																													
5	Bhavani	7	< 2 – 2.1																																													
6	Thamirabarani	12	<2																																													
7.	Amaravathi	2	<2																																													
8.	Palar	1	<2																																													
9.	Cooum	7	5 - 48																																													
10.	Adyar	7	8 - 40																																													
10.	Reuse of treated waste water : 98.0 MLD of industrial effluent is treated and reused. 80.50 MLD of Sewage is treated and reused for agricultural and industrial purposes.																																															
11.	Maintenance of ground and surface water quality – PWD a.Ground water quality: Along the polluted river stretches monitoring wells have been provided and the ground water is monitored. b.Ground water regulation: Ground water (Management and development) Act to regulate and manage the extraction of Ground water is under active consideration of the Government. c.Good irrigation practices adopted by the State: Village level awareness meetings are carried-out by the PWD to adopt crop rotation and good irrigation practices. Rehabilitation and modernization of tanks are carried-out by the PWD. d.Rain Water Harvesting: 119existing RWH structures along the PRS are provided; 22 Nos. are under progress and283Nos. of recharging wells and check dams are proposed. e.Demarcation of flood plain zones and removal of encroachments: In the PRS for demarcation of flood plain zones and removal of encroachments drone surveys are proposed for which DPR is under preparation. E-flow: It will be maintained in the rivers of Sarabanga, Thirumanimutharu, Vasista after completion of STPs. In the rivers of Cauvery, Bhavani and Tamiraparani E- flow is being maintained.																																															

Annexure- 1

INCREMENTAL PROGRESS OF STPs UNDER CONSTRUCTION

Sl.No	Location	Capacity (MLD)	% of Completion		Incremental Progress %
			Feb 23	Mar 23	
	CMWSSB				
1.	Sholinganallur STP (Phase II)	54	93.15	93.50	0.37
2.	KodungaiyurSTPZone - I	120	100.0	100.0	-
3.	Nesapakkam STP Zone - IV	50	100.0	100.0	-
4.	PerungudiSTPZone - V	60	68.50	69.50	1.44
5.	Perungudi TTUF	10	79.75	80.77	1.26
6.	CRRT, Langs Garden MSTP	10	66.80	67.85	1.55
	DMA				
7.	Ambur	16.71	54	54	-
8.	Rameshwaram	4.08	52	55	-
9.	Vellore	50.0	91	91	-
10.	Ponneri	6.52	32	40	20.0
11.	Tindivanam	11.44	-	2	-
12.	Villupuram Added Area	4.56	Preliminary works started		
13.	Pammal&Anagaputhur	27.0	15	15	-
	CTP				
14	Sriperumbudur TP	8.50	97	97	-
15	Thiruporur TP	4.02	95	97	2.06

Preliminary works started

INCREMENTAL PROGRESS OF FSTPs UNDER CONSTRUCTION

Sl.No	Location	Capacity (MLD)	% of Completion		Incremental Progress %
			Feb 23	Mar 23	
	DMA				
1	Sirkali	0.02	95	97	2.06
2	Padmanabhapuram	0.02	75	75	-
3	Vedaranyam	0.02	89	92	3.26
4	Aranthangi	0.02	78	81	3.70
5	Coonoor	0.01	82	83	1.20
6	Virudhachalam	0.04	93	95	2.11
7	Jayamkondan	0.02	90	93	3.23
8	Gudalur	0.02	83	85	2.35
9	Chengalpattu	0.02	81	83	2.41
10	Walajapet	0.03	32	32	-
11	Sivakasi	0.04	43	47	8.51
12	Keelakarai	0.02	53	57	7.02
13	Vaniyambadi	0.03	44	46	4.35
14	Kuzhithurai	0.04	79	82	3.66
	CTP				
15	Jalakandapuram TP	0.015	100	100	-
16	Pennagaram TP	0.015	95	95	-
17	Kaveripattinam TP	0.015	95	95	-
18	Kurumbalur TP	0.010	95	95	-
19	Pennadam TP	0.010	100	100	-

Annexure-2
INCREMENTAL PROGRESS OF MUNICIPAL SOLID WASTE MANAGEMENT-STATE
(ULBS)

Sl. No	Details	Oct 2022	Nov 2022	Dec 2022	Jan 2023	Feb 2023	Mar 2023	Incremental increase (%) (February 2023 to March 2023)
1	MSW generation (TPD)	15295	15552	15523	15169	15240	15214	-
2	MSW treatment capacity (TPD)	9602	9702	9702	9704	9704	9709	0.051
3	MSW utilization (TPD)	8009	8056	8175	8063	8207	8109	-

Format for Submission of Monthly Progress Report by the State of

Tamil Nadu

(Hon'ble NGT in the matter of OA No.673/2018 dated 06.12.2019)

MARCH 2022

Sl. No.	Progress report submitted by department	Enclosures
1.	• Directorate of Municipal Administration (DMA), • Chennai Metro water Supply & Sewage Board (CMWSSB), and • Greater Chennai Corporation (GCC)	Enclosed vide Annexure –I
2.	Commissionerate of Town Panchayat (CTP)	Enclosed vide Annexure –II
3.	Directorate Rural Dvelopment & Panchayat Raj	Enclosed vide Annexure- III
4.	Public Works Department PWD&WRD	Enclosed vide Annexure –IV
5.	Tamil Nadu Pollution Control Board	Enclosed vide Annexure –V



DDLABS AEL <tnpcbprs@gmail.com>

MPR - March 2023 - reg

1 message

ENGINEER'S STPSOUTH <engrstpsouth@gmail.com>

Thu, Apr 20, 2023 at 4:29 PM

To: DDLABS AEL <tnpcbprs@gmail.com>

Cc: metrowaterjai@gmail.com

Sir,

Kindly find the enclosed document.

With Regards,
O/o EE STP South/Special Initiatives

CMWSSB MPR Format - March 2023.doc

121K

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

For the State of Tamil Nadu (Chennai) in March 2023

Overall status of the State:

- I. Total Population: 74.38 Lakhs
- II. Estimated Sewage Generation (MLD): 680 (Max)

III. Details of Sewage Treatment Plant:

S.No.	Details of Sewage Treatment Plant	State	PRS
1	Existing no. of STPs and Treatment Capacity (in MLD)	912.80	
2	Capacity Utilization of existing STPs (in ML)	18867.47 (Avg – 608.63 MLD)	
3	MLD of sewage being treated through Alternate technology	-	
4	Gap in Treatment Capacity in MLD	Nil	
5	No. of Operational STPs	20	
6	No. of Complying STPs	20	
7	No. of Non-complying STPs	Nil	

Details of each existing STP in the State & PRS – March 2023

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
1	Nesapakkam STP Zone - IV	23	14.83	Operational	Complied <u>Parameters Range</u> pH – 6.5 to 8.5 BOD - < 20 mg/l COD – < 250 mg/l TSS - < 30 mg/l Faecal Coliform – 10000 MPN/100 ml
2	Koyambedu STP Zone - III	34	31.72	Operational	
3	Kodungaiyur STP Zone II	80	38.21	Operational	
4	Kodungaiyur STP Zone I	80	39.42	Operational	
5	Perungudi STP Zone - V	12	10.08	Operational	
6	Koyambedu STP Zone – III	60	0.00	Under Rehabilitation	

7	Kodungaiyur STP Zone I& II	110	83.01	Operational	
8	Nesapakkam STP Zone - IV	40	22.43	Operational	
9	Perungudi STP Zone - V	54	53.67	Operational	
10	Perungudi STP Zone – V	60	59.81	Operational	
11	Nesapakkam STP Zone - IV	54	51.63	Operational	
12	Koyambedu STP Zone – III	120	105.94	Operational	
13	Sholinganallur STP (phase I)	18	17.63	Operational	
14	Thiruvottriyur STP	31	5.51	Operational	
15	Kodungaiyur STP Zone – II New	120	65.64	Operational	
16	Nesapakkam TTUF	10	4.15	Operational	
17	CRRT - Chetpet MSTP	1.0	0.69	Operational	
18	CRRT- Nungambakkam MSTP	1.2	0.41	Operational	
19	CRRT - Todd Hunter Nagar MSTP	0.4*10=4	3.27	Operational	
20	CRRT - Kotturpuram MSTP	0.3*2=0.6	0.59	Operational	
Total		912.80	608.63		

Details of under construction STPs in the State& PRS

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
1	Sholinganallur STP (phase II)	54	93.50		May 2023 (36+18) 18MLD trial run under progress
3	Kodungaiyur STP Zone - I	120	100.00		Feb 2023 Trial run under progress
5	Nesapakkam STP Zone - IV	50	100.00		Feb 2023 Trial run under progress
6	Perungudi STP Zone - V	60	69.50		June 2023
8	Perungudi TTUF	10	80.77		June 2023
11	CRRT- Langs Garden MSTP	10	67.85		June 2023
Total		304			

Details of proposed STPs in the State & PRS

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
Total				

Details of proposed STPs in the State

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
Total				

IV. Details of Industrial Pollution:

- No. of industries in the State& PRS:
- No. of water polluting industries in the State& PRS:
- Quantity of effluent generated from the industries in MLD:
- Quantity of Hazardous Sludge generated from the Industries in TPD:
- Number of industrial units having ETPs in State & PRS:
- Number of industrial units connected to CETP:
- Number and total capacity of ETPs (details of existing/ under construction / proposed)
- Compliance status of the ETPs:
- Number and total capacity of CETPs (details of existing/ under construction / proposed)
- Status of compliance and operation of the CETPs

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)

V. Solid Waste Management:

- Total number of Urban Local Bodies and their Population

- Current Municipal Solid Waste Generation **(State & PRS)**
- Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing e.g.- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), bio methanation, MRF etc **(State & PRS)**
- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%) **(State & PRS)**
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction) **(State & PRS)**
- Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source **(State & PRS)**
- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology) **(State & PRS)**
- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.
- No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers
- No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers.

Status of ULB wise Management of Solid Waste

ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
Total					

VI. Bio-medical Waste Management:

- Total Bio-medical generation (State & PRS):
- No. of Hospitals and Health Care Facilities:
- Status of Treatment Facility/ CBMWTF:

VII. Hazardous Waste Management:

- Total Hazardous Waste generation (**State & PRS**):
- No. of Industries generating Hazardous waste
- Treatment Capacity of all TSDFs
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated
- Details of on-going or proposed TSDF

VIII. Plastic Waste Management:

- Total Plastic Waste generation (State & PRS):
- Treatment/ Measures adopted for reduction or management of plastic waste:

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

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

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

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

XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;

XIV. Ground water regulation:

XV. Good irrigation practices being adopted by the State:

XVI. Rain Water Harvesting:

XVII. Demarcation of Floodplain and removal of illegal encroachments:

XVIII. Maintaining minimum e-flow of river:

XIX. Plantation activities along the rivers:

XX. Development of biodiversity park:

XXI. Reuse of Treated Water:

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

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

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

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



DDLABS AEL <tnpcbprs@gmail.com>

NGT 606-MARCH 2023-LWM Progress - Sent - Reg

1 message

dma office <dmaoffice@gmail.com>
To: DDLABS AEL <tnpcbprs@gmail.com>

Thu, Apr 20, 2023 at 7:20 PM

2 attachments



FSTP 310323.xls
124K



LWM Status (March-23 Month).doc
162K

FSTPs – progress updates 31.03.23						
No	Status	Name of the ULBs	Capacity in KLD	% of physical progress	Probable date of	Number of
1	Completed & trial run ongoing	Kangeyam	20	100%		27
2		Kovilpatti	40	100%		
3		Tirumangalam	40	100%		
4		Dharapuram	30	100%		
5		Sengottai	20	100%		
6		Thuraiyur	20	100%		
7		Edappadi	30	100%		
8		Vickramasingapuram	30	100%		
9		Kadayanallur	40	100%		
10		Pattukottai	30	100%		
11		Tiruchengode	40	100%		
12		Melur	20	100%		
13		Ambasamudiram	30	100%		
14		Mannargudi	30	100%		
15		Aruppukottai	40	100%		
16		Sankarankoil	30	100%		
17		Tenkasi	40	100%		
18		Srivilliputhur	30	100%		
19		Gudiyattam	30	100%		
20		Vandavasi	20	100%		
21		Paramakudi	40	100%		
22		Koothanallur	20	100%		
23		Thiruthuraipoondi	10	100%		
24		Puliangudi	40	100%		
25		Cumbum	40	100%		
26		Kulithalai	20	100%		
27		Attur	40	100%		
28	0% to 95%	Sirkali	20	97%	May-23	
29		Padmanabhapuram	20	75%	Tender Cancelled	
30		Vedaranyam	20	92%	May-23	
31		Aranthangi	20	81%	May-23	
32		Coonoor	10	83%	May-23	
33		Virudhachalam	40	95%	May-23	
34		Jayamkondan	20	93%	May-23	
35		Gudalur	20	85%	May-23	14
36		Chengalpattu	20	83%	May-23	
37		Walajapet	30	32%	Tender Cancelled	
38		Kuzhithurai	40	82%	May-23	

39		Keelakarai	20	57%	May-23	
40		Sivakasi	40	47%	Jun-23	
41		Vaniyambadi	30	46%	Jun-23	
42	STP cum FSTP Proposed	Colachel	40	-		2
43		Manapparai	20	-		
44		Nellikuppam	20	0%		2
45		Panruti	30	0%		
46		Usilampatti	20	0%		1
						46

Overall status of STP
March-23 month progress

I. Estimated Sewage Generation (MLD) : 1698.73 (State)

Estimated Sewage Generation (MLD): 375.61 (PRS)

II. Details of Sewage Treatment Plant:

S.No.	Details of Sewage Treatment Plant	State	PRS
1	Existing no. of STPs and Treatment Capacity (in MLD)	69 Nos & 1233.00	15Nos & 310.52
2	Capacity Utilization of existing STPs	444.122	151.102
3	MLD of sewage being treated through Alternate technology	Nil	
4	Gap in Treatment Capacity in MLD	465.73	65.09
5	No. of Operational STPs	69nos	15 nos
6	No. of Complying STPs	69 nos	15 nos
7	No. of Non-complying STPs	Nil	

Details of each existing STP in the State & PRS

S. No	Location	Existing Capacity of STP (in MLD)	Capacity being Utilized (in MLD)	Operational Status of STP	Compliance Status of STP
1	Coimbatore - Ukkadam	70.00	35.00	Operational	Comply
	Coimbatore - Ondiputhur	60.00	9.00	Operational	Comply
	Coimbatore - Nanjudapuram	40.00	-	Under trial run	-
	Coimbatore – Kuruchi & kuniyamuthur	30.53	-	Under trial run	-
2	Vellore	10.28	8.00	Operational	Comply
3	Dindigul	13.65	4.00	Operational	Comply
4	Avadi	36.00	6.50	Operational	Comply
	Avadi	4.00	1.50	Operational	Comply
5	Madurai	125.00	24.00	Operational	Comply
	Madurai	45.70	15.00	Operational	Comply

6	Thanjavur	28.05	14.15	Operational	Comply
7	Tiruppur	15.00	8.50	Operational	Comply
	Tiruppur(Expansion of existing)	15.00	-	Under trial run	-
	Tiruppur (Sarkarperiyapalayam)	36.00	-	Under trial run	-
	Tiruppur (Chinnandipalayam)	20.00	-	Under trial run	-
8	Cuddalore	12.25	6.70	Operational	Comply
9	Kanchipuram	14.70	14.70	Operational	Comply
10	Maraimalai Nagar	2.20	2.20	Operational	Comply
11	Pallavapuram	(CMWSSB STP 115@Perungudi)		Operational	Comply
12	Tiruvallur	6.20	5.50	Operational	Comply
13	Chidambaram	9.44	6.50	Operational	Comply
14	Thiruvannamalai	8.70	5.00	Operational	Comply
15	Viluppuram – (Kakuppam)	9.00	7.50	Operational	Comply
	Viluppuram (Erumanthangal)	3.50	1.80	Operational	Comply
16	Arakkonam	11.04	3.00	Operational	Comply
17	Thirupathur	11.43	3.50	Operational	Comply
18	Bodinayakkanur	12.08	4.00	Operational	Comply
19	Chinnamanur	3.99	3.72	Operational	Comply
20	Periyakulam	5.47	4.00	Operational	Comply
21	Ramanathpuram	7.00	6.00	Operational	Comply
22	Rasipuram	6.96	3.50	Operational	Comply
23	Theni-Allinagaram	12.05	9.50	Operational	Comply
24	Sivagangai	4.92	2.00	Operational	Comply
25	Dharmapuri	4.86	3.50	Operational	Comply
26	Karur	15.00	6.00	Operational	Comply
27	Krishnagiri	12.34	8.00	Operational	Comply
28	Namakkal	5.00	5.00	Operational	Comply
29	Nagapattinam STP-1	9.63	5.10	Operational	Comply
	Nagapattinam STP-2	2.69	1.10	Operational	Comply
30	Tiruvarur	6.92	4.10	Operational	Comply

31	Ariyalur	4.16	1.80	Operational	Comply
32	Pudukkottai	10.62	8.50	Operational	Comply
33	Perambalur	4.20	3.60	Operational	Comply
34	Udhagamandalam	5.00	4.00	Operational	Comply
35	Udumalaipet	7.81	4.50	Operational	Comply
36	Virudhunagar	7.65	3.80	Operational	Comply
37	Tambaram	30.00	4.00	Under trial run	Comply
38	Tuticorin	28.00	10.00	Under trial run	Comply
39	Tiruchendur	3.90	2.00	Operational	Comply
40	Ulundurpet	3.15	-	Under trial run	Comply
41	Pollachi	11.25	1.50	Under trial run	Comply
42	Sattur	4.65	1.50	Under trial run	Comply
43	Karaikudi	16.00	-	Under trial run	-
44	Nagercoil	17.66	-	Under trial run	-
45	Rajapalayam	21.85	-	Under trial run	-
46	Tiruchirappalli	58.00	58.00	Operational	Comply
	Trichirapalli-STP2	37.00	-	Under trial run	-
47	Salem - Vellakuttai STP	13.00	11.00	Operational	Comply
	Salem - Anaimeedu STP	6.00	5.00	Operational	Comply
	Salem - Mankuttai STP	35.00	15.00	Operational	Comply
	Salem - Vandipattai STP	44.00	1.00	Operational	Comply
48	Tirunelveli	24.20	10.50	Operational	Comply
49	Erode	50.55	27.00	Operational	Comply
50	Mettur STP-1	0.82	0.354	Operational	Comply
	Mettur STP-2	0.92	0.314	Operational	Comply
	Mettur STP-3	5.45	2.834	Operational	Comply
51	Kumbakonam	17.00	13.50	Operational	Comply
52	Mayiladuthurai	5.85	5.85	Operational	Comply
53	Sathiyamanagalam	4.08	1.00	Operational	Comply
54	Mettupalayam	8.65	-	Under trial run	-
Total	69 nos	1233.00	444.12		

Details of under construction STPs in the State & PRS

S.No	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
1	Ambur	16.71	54%	-	June-23
2	Vellore	50.00	91%	-	June-23
3	Rameswaran	4.08	55%	-	June-23
4	Ponneri	6.52	40%	-	Dec-23
5	Pammal & Anagaputhur	27.00	15%	-	Dec-23
6	Tindivanam	11.44	2%	-	Dec-23
7	Villupuram Added Area	4.56	Preliminary works started		Dec-23
Total (7 nos)		120.31			

In Trichy Corporation revamping of Existing STP of 30MLD work is cancelled which is WSP technology, Instead of that 100MLD capacity STP is proposed to taken up under AMRUT 2.0 with Modern technology.

III. Reuse of Treated Water:

The policy for promotion of use of Treated Waste Water is prepared with a vision to maximize the collection & treatment of sewage generated and reuse of treated waste water on a sustainable basis, thereby reducing dependency on fresh water resources. Further, the policy promotes use of treated waste water as an economic resource.

In this regard, Tamil Nadu Government has launched waste water reuse policy on December 2019. At present Memorandum of Understanding (MoU) has been executed between the ULB and the user agency for the re-use of secondary treated effluent water (STEW).

S. No	Name of the ULB	Quantity (in MLD)	Usage/ Purpose
1	Nagapattinam	2.00	M/s KVK Power for cooling purpose
2	Dindugul	5.00	To maintain the TDS level of Tanners as well for Agro- forestry.

3	Tirunelveli	24.00	Nanguneri SEZ for Industries
4	Perambalur	3.00	MRF Industrial use
5	Ramanathapuram	3.00	NTC Infra
6	Coimbatore	15.00	Agricultural use to farmers association
7	Pollachi	11.50	Agricultural use to farmers association
8	Chinnamannur	3.00	Agricultural use
9	Karur	7.00	Agricultural use
10	Arakkonam	7.00	MRF Industrial use



DDLABS AEL <tnpcbprs@gmail.com>

Polluted River Stretch MPR Format for March 2023-Revised

1 message

Swachh Bharat Mission <sbmpmucma@gmail.com>

Thu, Apr 27, 2023 at 1:07 PM

To: DDLABS AEL <tnpcbprs@gmail.com>

Cc: dma office <dmaoffice@gmail.com>

Dear Sir/Madam,

Please find attached **revised** Polluted River Stretch MPR format for the month of March 2023.

Thanks & Regards
Project Management Unit
Office of State Mission Director
Swachh Bharat Mission (U) 2.0
Directorate of Municipal Administration
Chennai -28

5 attachments**1.SWM Revised MPR Format for 158 ULBs.docx**

21K

**CMA ULBs-SWM Existing Facilites (2).xlsx**

40K

**3. Gap anaylsis JS -Mail.xlsx**

29K

**PRS ULBs -SWM Existing Facilites.xlsx**

15K

**2. SWM-LWM MPR-excell sheet.xlsx**

18K

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

For the State of Tamil Nadu

I. Solid Waste Management: (For Polluted River Stretches ULBs)

- Total number of Urban Local Bodies and their Population: **158 ULBs & Population - 1,98,84,343**
- Current Municipal Solid Waste Generation: **7518 TPD & 1314 TPD**
- Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), biomethanation, MRF etc : **Enclosed**
- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%) Nil
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction) : **6 ULBs and 375 TPD**
- Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source : **Enclosed**
- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology) : **Enclosed**
- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills. **Nil**
- No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers- 1 no.(Erode) &19 acres – **Biomining Work completed**
- No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers – Nil.

NMCG Format for Submission of Monthly Progress Report in the NGT Matter OA No.673 of 2018							
(in compliance to NGT order dated 24.09.2020)							
	For the Month of March 2023 -Department	CMA					
V	Solid Waste Management:						
		Tamil Nadu State			Polluted River Stretches		
1	Total number of Urban Local Bodies and their Population	158 ULBs / 1,98,84,343			21 ULBs / 31,09,821		
2	Current Municipal Solid Waste Generation TPD	7518 TPD			1679 TPD		
3	Existing MSW processing facilities	Total No.	Installed Capacity (TPD)	Utilization Capacity (TPD)	Total No.	Installed Capacity (TPD)	Utilization Capacity (TPD)
a.	Windrow Compost	66	209	162	6	19	16
b.	Vermi Compost	27	115	90	4	5	3
c.	Decentralized pit composting	757	2905	2804	182	662	637
d.	Biomethanation	47	189	140	13	53	48
e.	MRF/RRC	235	1005	1005	32	136	136
f.	others	891	450	355	138	59	56
g.	Waste to Energy						
h.	Dry waste disposed to local vendors and Cement industries		1320	840		425	268
	Total	2023	6193	5396	375	1359	1164
4	Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)						
5	No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)	Existing (No. & capacity)	Proposed (No. & Capacity)	Under construction (No. & Capacity)	Existing (No. & Capacity)	Proposed (No. & Capacity)	Under construction (No. & Capacity)
		-	6 Nos & 375 TPD	-	-	1 No & 50 TPD	-
6	Total no. of wards	5178			717		
	Total no. of wards having door to door collection service	5004			696		
	Total no. of wards practicing segregation at source	4371			633		
7a.	Details of MSW treatment facilities proposed (no.)	18 Nos			6 Nos		
	Details of MSW treatment facilities proposed (capacity, TPD)	2230 TPD			645 TPD		
	Details of MSW treatment facilities proposed (technology)	Incineration for Dry waste and MCC for Wet waste			Incineration for Dry waste and MCC for Wet waste		
7b.	Details of MSW treatment facilities under construction (no.)	210 Nos			34 Nos		
	Details of MSW treatment facilities under construction (capacity, TPD)	1282 TPD			281 TPD		
	Details of MSW treatment facilities under construction (technology)	Micro Composting Centre, Incineration and RRC and Onsite composting Centres			Micro Composting Centre, Incineration and RRC and Onsite composting Centres		
8	No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.	Nil			Nil		
9	No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers	Nil			Nil		

V	Solid Waste Management:		
		Tamil Nadu State	Polluted River Stretches
10	No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers	-	-
VIII	Plastic Waste Management:		
1	Total Plastic Waste generation:TPD	514	103
2	Treatment/ Measures adopted for reduction or management of plastic waste:	All the ULBs are enforcing Source segregation of waste through IEC activities by animators and the saleable fraction of plastic waste is sold to recyclers and remuneration is paid back to sanitary workers. Apart from that a total quantity of 1502.70 MT of single use plastics had been seized and a penalty of Rs.7.87 crores has been collected. The seized plastics are stored at Resource Recovery Centres (RRC) and disposed to Cement industries.	All the ULBs are enforcing Source segregation of waste through IEC activities by animators and the saleable fraction of plastic waste is sold to recyclers and remuneration is paid back to sanitary workers. Apart from that a total quantity of 237.41 MT of single use plastics had been seized and a penalty of Rs.1.94 crores has been collected. The seized plastics are stored at Resource Recovery Centres (RRC) and disposed to Cement industries.
XXIV	Regulation of /Mining Activities in the State/UT		

Legacy waste

TN ULBs	legacy waste estimated (Cu.Mtr)	Legacy waste 100% biomined (Cu.Mtr)		Under process (Balance Waste) Cu.Mtr							Remarks
		ULB	Waste	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	
CMA	84.05 Lakhs Cu.m in 98 ULBs	64	42.84 Lakhs Cu.m	21.88	21.2	20.87	20.32	19.6	18.97	17.85	

For the Month of March 2023 - Prepared By Greater Chennai Corporation

For the Month of March 2023 - Prepared By Greater Chennai Corporation					
Solid Waste Management:					
Tamil Nadu State					
1	Total number of Urban Local Bodies and their Population	87 LAKHS			
2	Current Municipal Solid Waste Generation TPD	5891			
3	Existing MSW processing facilities	Total No.	Installed Capacity (TPD)	Utilization Capacity (TPD)	Remarks
a	Windrow Compost	2	100	100	
b	Vermi Compost	0	0	0	
c	Decentralized pit composting	206	581	484	
d	Biomethanation	6	21	20	
e	MRF/RRC	190	468	271	
f	Others (Breakup) 1 Incinerators - 3 No (65 MTD) 2 Garden garbage & Tender coconut shell processing plant - 4 locations (320 MTD) 3 Offtake of baled plastic to cement factories (300 MTD)	8	685	221	
g	Waste to Energy 1 Bio-gas	34	13	10	
	2 Bio-CNG	2	200	159	
	Total	448	2068	1265	
4	Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)	Continuous awarness being created for source segregation and fixing target to achieve goal and periodically reviewed			
5	No. and capacity of C&D waste processing plants in TPD	2 no (400 each)	800	489	
6	Total no. of wards	200			
7	Total no. of wards having door to door collection service	200			
8	Total no. of wards practicing segregation at source	200			
9	Details of MSW treatment facilities proposed (no.)	-			
10	Details of MSW treatment facilities proposed (capacity, TPD)	Bio-CNG 2nos -500 TPD each Compost 2nos - 300 TPD and 400 TPD MRF (Automatic) - 2nos 500 TPD each Waste to Engery - 1 No 1500 TPD Sanitary Landfill - 600 TPD			
11	Details of MSW treatment facilities proposed (technology)	-			
12	Details of MSW treatment facilities under construction (no.)	6			Bio-CNG 5nos -100 TPD each Pyrolysis 1no -20TPD
13	Details of MSW treatment facilities under construction (capacity, TPD)	520			

14	Details of MSW treatment facilities under construction (technology)	Bio CNG, and Pyrolysis Plant	
15	No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills	5nos / 539.18 acres	
16	No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers	Nil	
17	No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers	272 (Storm water drains falling into rivers)	
Status of ULB wise SWM			
	ULB	Greater Chennai Corporation (GCC)	
	Total MSW generated in TPD	5891	
	Total MSW processed in TPD	1265	
	Existing MSW facilities	MCC, Bio CNG, Bio Gas, Biomethanation, Windrow Compost, Horticulture Waste process, RRC MRF, Incinerator, Off take, Baling machines	
	Utilization capacity of the existing MSW facilities	1224	
	Proposed MSW Facilities & Completion Timeline		
Status of ULB/RLB wise SWM			
	ULB/RLB (No.),	Tamil Nadu State	
	Total MSW generated in TPD		
	Total MSW processed in TPD		
	Existing MSW facilities		
	Utilization capacity of the existing MSW facilities		
	Proposed MSW Facilities & Completion Timeline		
Plastic Waste Management:			
1	Total Plastic Waste generation: TPD		
2	Treatment/ Measures adopted for reduction or management of plastic waste:	RRC, MRF, Incinerator, Pyrolysis Plant, Offtake, Baling machines	
	Regulation of /Mining Activities in the State/UT		

A. S.
06.04.2023
EXECUTIVE ENGINEER (SWM)

N. S. Parth
06/04/23
SUPERINTENDING ENGINEER (SWM) *i/c*

Details of Garbage Collection and Processing in Zone 1 to 15

March month 2023 Average

S.No	Zone	Wet waste processing in MT						Dry waste processing in MT					Qty of collected Domestic Hazardous Waste in MT	Qty of collected Domestic Sanitary Waste in MT	Horticulture waste processing in MT		Waste collected from Quarantined home sent to service providers in MT	Landfill Garbage (MT)		Total waste collected (MT)	Debris Landfill (MT)	Debris processing (MT)	TOTAL DEBRIS (MT)
		MCC	Windrow	Bio Gas	Bio Methanation	Bio - CNG	Total	Incinerator	RRC/MRF	Baling Machine	Sold by Conservancy Workers	Total			Garden waste	Tender Coconut		Trips	MT				
1	1	31.9	27.6	0	0	4.81	64.3	12.89	37.24	2.9	5.39	58.42	0	0	4.13	3.72	0	7.58	49.78	180.35	4.05	0	4.05
2	2	9.27	14.64	0	0	2.81	26.72	25.56	5.9	1.63	1.4	34.49	0	0	0.78	0.66	0	0.23	0.52	63.17	0.12	0	0.12
3	3	11.59	28.55	0.26	0	9.89	50.29	11.5	36.76	3.14	1.81	53.21	0	0	1.84	3.23	0	4.03	27.81	136.38	5.83	0	5.83
4	4	51.14	26.2	0	0	22.3	100.49	1.09	30.93	7.3	28.43	67.75	0	0	0.23	1.82	0	108.26	399.35	569.64	114.25	59.15	173.4
5	5	54.25	6.34	4.38	2.67	7.13	74.96	0.57	31.8	9	29.81	71.17	0	0	1.33	2.35	0	63.94	516.74	666.56	36.88	60.35	97.22
6	6	25.67	0.57	0.99	9.35	0.67	37.45	0.36	7.8	2.84	20.76	31.76	0	0	1.8	1.98	0	62.61	410.33	483.32	138.59	53.41	192
7	7	42.4	5.17	2.59	1.01	0.13	51.3	2.52	26.45	0.26	29.6	58.82	0	0	1.72	7.45	0	39.68	376.34	495.63	0.1	0	0.1
8	8	53.93	0	0	6	3	62.94	0.05	10.29	3.22	27.95	41.51	0	0	1.92	2.42	0	78.77	396.27	505.05	1.27	74.38	75.66
9	9	22.56	0	0.3	0.34	8.99	32.19	0	14.82	6.09	11.86	32.76	0	0	6.96	6.67	0	70.58	522.72	601.31	39.7	96.86	136.56
10	10	22.36	0	0.25	0.01	11.16	33.78	0	4.11	3.4	2.87	10.38	0	0	5.26	6.1	0	67.68	503.45	558.97	7.17	72.62	79.79
11	11	13.6	0.09	0	0	0	13.69	0	7.24	2.95	2.71	12.9	0	0	3.69	6.7	0	28.23	184.33	221.3	1.6	0	1.6
12	12	32.25	0	1.04	0	6.87	40.16	0.7	1.58	1.83	2.64	6.75	0	0.42	4.09	3.85	0	17.1	124.4	179.67	8.14	0	8.14
13	13	29.19	0	0	0	5.8	34.99	0	18.25	0.99	2.55	21.79	0	0	5.25	5.59	0	50.23	445.04	512.65	16.91	72.69	89.6
14	14	53.8	0	0	0	1.21	55.01	0.04	31.56	0.13	1.97	33.7	0	0	3.28	8.67	0	36.97	176.78	277.44	11.36	0	11.36
15	15	29.65	0	0	0	0	29.65	0	6.39	1.83	0.64	8.86	0.26	0.04	7.48	7.26	0	27.29	158.73	212.28	0	0	0
Pollu care		0	0	0	0	52.87	52.87	0	0	0	0	0	0	0	0	0	0	0	0	52.87	0	0	0
Koyambedu		0	0	0	0	21.55	21.55	0	0	0	0	0	0	0	0	0	0	9.81	152.98	174.53	0	0	0
TOTAL		483.8	109.2	9.8	19.58	159.2	782.4	55.27	271.1	47.51	170.37	544.3	0.26	0.46	49.76	68.47	0	673	4445.6	5891.12	385.98	489.46	875.44

GREATER CHENNAI CORPORATION DUMPSITE DETAILS AS ON 31.03.2023

S NO	State	ULB/City	ULB Code	Ward Number	Dumpsite Id	Dumpsite Name	Address	latitude	longitude	Status	Dumpsite Area (Acres)	Waste Quantity (cu.m)	Quantity Remediated (cu.m)	% Remediated
1	TAMIL NADU	CHENNAI	803339	37	6583	Kodungaiyur dumpsite	Zone 4 Kodungaiyur	13.13	80.27	Remediation Not Proposed	269	AS Obtained from Govt RFP document submitted and approved from KFW, tender due on 10.05.2023		-
2				186	6584	Perungudi dumpsite	Zone 14 Perungudi	12.95	80.23	On-Going	225	34,33,002	20,01,598	58.00
3				25	6351	Athipattu	Athipattu	13.10	80.15	On-Going	12	1,07,811	1,03,524	96.00
4				183	6352	Pallikaranai	Pallikaranai	12.96	80.21	Completed	15	40,853	40,853	100.00
5				7	6353	Sathankadu	Sathankadu	13.16	80.29	On-Going	18.78	1,25,635	91,476	73.00

(Signature)
06/04/2023
EXECUTIVE ENGINEER (SWM)

(Signature)
06/04/23
SUPERINTENDING ENGINEER (SWM) ICC



DDLABS AEL <tnpcbprs@gmail.com>

MPR MARCH 2023

1 message

Schemes Section <ctpschemes21@gmail.com>
To: tnpbprs@gmail.com

Thu, Apr 27, 2023 at 8:20 AM

--
Sir / Madam,

* Please see the attached file.*

Directorate of Town Panchayats,
7th & 8th Floor,
Urban Administrative Building,
Chennai - 600 028.

[image: logo]

"Go Green. Save Paper" *

*Print only if necessary & use both sides of Paper - this will preserve
trees on planet earth.*

3 attachments

MPR March.docx
39K



SWM-LWM MPR - March.xlsx
20K



Gap anaylsis - March.xlsx
43K

National Mission for Clean Ganga
Format for submission of Monthly Progress Report
(March 2023) in the NGT Matter OA No. 673 of 2018 (in
compliance to NGT order dated 24.09.2020)

For the State of Tamil Nadu

Overall status of the State:

I. Total Population: 7665951

II. Estimated Sewage Generation (MLD): 429.29 MLD

III. Details of Sewage Treatment Plant:

S.No.	Details of Sewage Treatment Plant	State	PRS
1	Existing no. of STPs and Treatment Capacity (in MLD)	9 (26.67MLD)	-
2	Capacity Utilization of existing STPs	11.17 MLD	-
3	MLD of sewage being treated through Alternate technology	3 MLD	-
4	Gap in Treatment Capacity in MLD	399.62	24.86
5	No. of Operational STPs	9	-
6	No. of Complying STPs	9	-
7	No. of Non-complying STPs	-	-

Details of each existing STP in the State & PRS

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
1	Mamallapuram TP	2.34	2.34	Operational	Complied
2	Orathanadu TP	2.30	1.60	Operational	Complied
3	Thiruchendur TP	Upgraded as Municipality			
4	Palanichettypatti TP	2.80	2.08	Operational	Complied
5	Thirumazisai TP	3.00	1.80	Operational	Complied
6	<u>Ulunderpettai TP</u>	Upgraded as Municipality			
7	Velankanni TP	2.33	0.9	Operational	Complied
8	Manachanallur TP	6.41	1.85	Operational	Complied
	S.Kannanur TP				
9	Vallam TP	2.35	0.25	Operational	Complied

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
10	Perundurai TP	3.14	0.35	Operational	Complied
11	Melachokanathapuram TP	2.00	-	Operational	Trial Run
		26.67	11.17		
Septage Management					
1	Karunguzhi	0.024	0.024	Operational	
2	Periyanaikanpalayam	0.030	0.03	Operational	
3	Chengam TP	0.020	-	Operational	Trial Run
4	Alangayam TP	0.015	-	Operational	Trial Run
5	Mudukulathur TP	0.015		Operational	Trial Run
		0.104	0.054		
TOTAL		26.774	11.224		

Details of under construction STPs in the State & PRS

Sl. No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
1	Sriperumbudur TP	8.50	97% completed	5695/6000	31.07.2023
2	Thiruporur TP	4.02	97% Completed	4479/4479	30.06.2023
	Total	12.52		10174/10479	
Septage Management					
1	Jalakandapuram TP	0.015	100% Civil works completed	-	Consulting TNPCB for NOC
2	Pennagaram TP	0.015	95% completed	-	Notice Issued to Contractor. Awaiting for Retender
3	Kaveripattinam TP	0.015	95% completed	-	15.05.2023
4	Kurumbalur TP	0.010	95% completed	-	10.05.2023
5	Pennadam TP	0.010	100% Civil works completed. Compound wall work in progress	-	30.04.2023
Total		0.065			

Details of proposed STPs in the State & PRS

S. No	Name of the ULB	STP/ FSTPs	STP/ FSTPs capacity in MLD/K LD	Status of DPR Preparation	Status of DPR approval	Status of award of tender	Designated nodal Agency	Treatment Technology along with firm completion timelines	Remarks
1	Musiri TP	Upgraded as Municipality							
2	Sirugamani TP	-	-	DPR Stage	-	-	PWD	-	DPR is under preparation by WAPCOS/ PWD.
3	Mohanur TP	-	-	DPR Stage	-	-	PWD	-	"
4	Velur TP	-	-	DPR Stage	-	-	PWD	-	"
5	Punjai Pugalur TP	Upgraded as Municipality							
6	Bhavani sagar TP	-	-	DPR Stage	-	-	PWD	-	"
7	Sirumugai TP	-	-	DPR Stage	-	-	PWD	-	"
8	Madathukulam TP	-	-	DPR Stage	-	-	PWD	-	"
9	Omalur TP	-	-	DPR Stage	-	-	PWD	-	"
10	Poolampatty TP	-	-	DPR Stage	-	-	PWD	-	"
11	Kuthalam TP	-	-	DPR Stage	-	-	PWD	-	"
12	Thirukattupalli TP	-	-	DPR Stage	-	-	PWD	-	"
13	Thiruvaiyaru TP	-	-	DPR Stage	-	-	PWD	-	"
14	Pethanaickenpalayam TP	-	-	DPR completed	-	-	DTP	-	Tamilnadu Water Investment Company (M/s. TWIC) has been appointed as consultant for preparation

S. No	Name of the ULB	STP/ FSTPs	STP/ FSTPs capacity in MLD/K LD	Status of DPR Preparation	Status of DPR approval	Status of award of tender	Designated nodal Agency	Treatment Technology along with firm completion timelines	Remarks
									of DPR. DPR submitted on 15.2.2022 by TWIC .DPR under scrutiny "
15	Yethapur TP	-	-	DPR completed	-	-	DTP	-	"
16	Belur TP	-	-	DPR completed	-	-	DTP	-	"
17	Srivaikundam TP	-	-	DPR completed	-	-	DTP	-	"
18	Authoor TP	-	-	DPR completed	-	-	DTP	-	"
19	Eral TP	-	-	DPR completed	-	-	DTP	-	"
20	Alwarthirunagari TP	-	-	DPR completed	-	-	DTP	-	"
21	Then Thiruperai TP	-	-	DPR completed	-	-	DTP	-	"
22	Arumuganeri TP	-	-	DPR completed	-	-	DTP	-	"
23	Mukkudal TP	-	-	DPR completed	-	-	DTP	-	The SBM 2.0 2 nd State High Powered Committee meeting held on 26.02.2022 has approved to establish Decentralised STP and DEWATS
24	Gopalsamudram TP	-	-	DPR completed	-	-	DTP	-	
25	Kallidaikurichi TP	-	-	DPR completed	-	-	DTP	-	
26	Cheranmahadevi TP	-	-	DPR completed	-	-	DTP	-	
27	Veeravanallur TP	-	-	DPR completed	-	-	DTP	-	
28	Patthamadai	-	-	DPR	-	-	DTP	-	

S. No	Name of the ULB	STP/ FSTPs	STP/ FSTPs capacity in MLD/K LD	Status of DPR Preparation	Status of DPR approval	Status of award of tender	Designated nodal Agency	Treatment Technology along with firm completion timelines	Remarks
	TP			completed					method. Administrative sanction issued on 21.03.2022 and works are in various stages
29	Mela Seval TP	-	-	DPR completed	-	-	DTP	-	
30	Naranammalpuram TP						DTP		

I. **Solid Waste Management:**

- Total number of Urban Local Bodies and their Population – **State – 490 & PRS - 27**
- Current Municipal Solid Waste Generation (**State - 1805 MT & PRS – 107.80 MT**)
- Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), biomethanation, MRF etc

State	PRS
Total MSW generated - 1805 TPD	Total MSW generated - 107.80 TPD
Total MSW processed - 1573 TPD	Total MSW processed - 93.75 TPD
Gap in processing - 232 TPD	Gap in processing - 14.05 TPD

SN	Description	State			PRS		
		Nos	Installed Capacity MT	Utilization Capacity TPD	Nos	Installed Capacity MT	Utilization Capacity TPD
1	Windrow & Vermi Composting	673	801	801	39	77	77
2	De-Centralised	39	111	111	4	7	7
3	Bio-Gas / Bio-Methanation	18	37	37	1	10	10
4	RRC	489	499	499	27	36	36

- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)

State & PRS – Waste to energy plants are to be proposed on cluster basis.

- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction) **(State & PRS)**
- Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source

State	PRS
Total no. of wards - 7621 Door to Door collection – 7314 Source segregation – 6857	Total no. of wards - 465 Door to Door collection – 465 Source segregation – 418

- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)
 - ✓ **So far 6 Incinerators have been completed, 1 work in finishing stage and remaining 1 work cancelled.**
 - ✓ **So far 9 Pyrolysis have been completed remaining 1 work has been cancelled.**
 - ✓ **For remaining Town Panchayats waste to energy plants are to be proposed on cluster basis.**
- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.

- No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers
- No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers.

Status of ULB wise Management of Solid Waste

STATE

ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW Facilities	Plant Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
490	1805	1573	1.windrow & Vermi compost	801 TPD	Waste to energy plants are to be proposed on cluster basis
			2.Decentralized composting	111 TPD	
			3. Biogas	37 TPD	
			4.Incinerator	Under construction will be completed before Apr 2023	
			5.Pyrolysis	Under construction will be completed before Apr 2023	

PRS

ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW Facilities	Plant Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
29	107.80	93.75	1.windrow & Vermi Compost	77 MT	Waste to energy plants are to be proposed on cluster basis
			2. De-Centralized composting	7 MT	
			3. Biogas	10 MT	

II. Bio-medical Waste Management:

- Total Bio-medical generation (State & PRS):
- No. of Hospitals and Health Care Facilities:
- Status of Treatment Facility/ CBMWTF:

III. Hazardous Waste Management:

- Total Hazardous Waste generation (**State & PRS**):
- No. of Industries generating Hazardous waste
- Treatment Capacity of all TSDFs
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated
- Details of on-going or proposed TSDF

IV. Plastic Waste Management:

- Total Plastic Waste generation **State - 102 TPD & PRS – 6.2 TPD**
- Treatment/ Measures adopted for reduction or management of plastic waste:

Recyclable/ Saleable plastics are been sold to authorized vendors

Non- saleable plastics are been sent to cement factories and are used as a component for laying roads

Waste to energy plants are to be proposed on cluster basis

STPs & FSTPs under progress

TN ULBs	STP Name	Sanctioned month and year	Capacity (MLD)	% of completion		
				Jan-23	Feb-23	Mar-23
	<u>STP</u>					
DTP	Sriperumbudur TP	19.6.2012/ 16.5.2014	8.50	97%	97%	97%
	Thiruporur TP	19.09.2013 / 11.01.2017	4.02	95%	95%	97%
	<u>FSTP</u>					
DTP	Jalakandapuram TP	21.1.2019	0.015	100%	100%	100%
	Pennagaram TP	21.1.2019	0.015	95%	95%	95%
	Kaveripattinam TP	21.1.2019	0.015	95%	95%	95%
	Kurumbalur TP	21.1.2019	0.01	90%	95%	95%
	Pennadam TP	21.1.2019	0.01	90%	100%	100%

Liquid Waste Management

TN ULBs	Sewage generation (in MLD)			Installed Treatment Capacity of STPs (in MLD)			Gap in Treatment capacity	
	Jan-23	Feb-23	Mar-23	Jan-23	Feb-23	Mar-23	Jan-23	Feb-23
DTP	429.29	429.29	429.29	26.670	26.670	26.670	402.620	402.62

Liquid Waste Treatment - Capacity Utilisation

TN ULBs	Installed treatment capacity			Capacity utilisation %			Gap in capacity utilisation	
	Jan-23	Feb-23	Mar-23	Jan-23	Feb-23	Mar-23	Jan-23	Feb-23
DTP	26.670	26.670	27.670	7.874	7.874	11.224	18.796	18.796

Solid Waste Management

[illegible]

Solid Waste Treatment -Capacity Utilisation

[illegible]

Legacy Waste

Sl. No.	Year	Name of the Town Panchayat	Legacy waste estimated (Cu.m)	Legacy waste 100% biomined (Cu.m)	Under process (Balance Waste) (Cu.M)	
					Feb-23	Mar-23
1	18-19	Madukkur	6505.89	6505.89	-	-
2	18-19	Chinnalapatti (1)	5963.73	5963.73	-	-
3	21-22	Uthamapalayam (2)	8500.00	8500	-	-
4	21-22	Thiruppananthai	2138.00	2138	-	-
5	18-19	Annur	9893.00	9893.00	-	-
6	19-20	Sulur	5300.00	5300	-	-
7	21-22	Vasudevanallur	5472.00	5472	-	-
8	19-20	Perundurai (2)	19790.00	19790.00	-	-
9	19-20	Kanniyakumari	12113.00	12113	-	-
10	19-20	Karumandi Chellipalayar	16088.00	16088	-	-
11	18-19	Anaimalai (1)	7115.81	7115.00	-	-
12	19-20	Thirumazhisai	2265.00	2265	-	-
13	19-20	Thammampatty	5918.00	5918	-	-
14	19-20	Palamedu	1574.00	1574	-	-
15	19-20	Polur	16140.00	16140	-	-
16	19-20	Chinnalapatti (2)	3511.00	3511	-	-
17	19-20	Alanganallur	3186.00	3186	-	-
18	19-20	Kaliyakkavilai	1535.00	1535	-	-
19	19-20	Ammapettai	9993.00	9993	-	-
20	18-19	Jalakandapuram	6036.00	6036.00	-	-
21	18-19	Denkanikottai	14854.55	14854.55	-	-
22	18-19	Kaveripattinam (1)	10856.22	10856.22	-	-
23	18-19	Velur	4973.00	4973.00	-	-
24	18-19	Perundurai (1)	14000.00	14000.00	-	-
25	18-19	Marakkanam	18186.00	18186.00	-	-
26	18-19	Velankkani (1)	26082.00	26082.00	-	-
27	18-19	Manachanallur	16983.00	16983.00	-	-
28	18-19	Thenkarai	6548.96	6548.96	-	-
29	18-19	Uthamapalayam (1)	6876.93	6876.93	-	-
30	18-19	Naravarikuppam (1)	5208.00	5208.00	-	-

Sl. No.	Year	Name of the Town Panchayat	Legacy waste estimated (Cu.M)	Legacy waste 100% biominced	Under process (Balance Waste) (Cu.M)	
31	18-19	Gingee	13800.00	13800.00	-	-
32	19-20	Swamimalai	11251.00	11251.00	-	-
33	18-19	Thiruvaiyaru	17500.00	17500.00	-	-
34	21-22	Arumuganeri	18000.00		16900.00	16900.00
35	19-20	Anthiyur	14810.00		12500.00	12500.00
36	19-20	Periyanaickenpalayam	11587.00		10950.00	10950.00
37	19-20	Harur	11181.00		10681.00	10681.00
38	21-22	Thisayanvilai	35966.00		10200.00	10200.00
39	21-22	Thirukattupalli	13585.00		9238.00	9238.00
40	21-22	Lakkampatti	7925.00		7450.00	7450.00
41	19-20	Kunathur	8168.00		7050.00	7050.00
42	21-22	Ayyampettai	9970.00		6979.00	6979.00
43	21-22	Madathukulam	7828.00		6500.00	6500.00
44	21-22	Anaimalai (2)	7686.00		5500.00	5500.00
45	19-20	Avinasi	7583.00		5150.00	5150.00
46	19-20	Suleswaranpatti (1)	10883.00		4905.00	4905.00
47	21-22	Kuthalam	6362.00		4453.00	4453.00
48	18-19	Vazhapadi	6134.00		4234.00	4234.00
49	21-22	Suleswaranpatti	4944.00		3985.00	3985.00
50	21-22	Alangulam	16874.00		3924.00	3924.00
51	21-22	Kanjikovil	5089.00		3680.00	3680.00
52	21-22	Orathanadu	6240.00		3432.00	3432.00
53	21-22	Chengam	5175.00		3100.00	3100.00
54	22-23	Podhaturpet	9595.00		2900.00	2900.00
55	19-20	P.Velur	10474.00		2804.00	2804.00
56	21-22	Chithode	5080.00		2740.00	2740.00
57	21-22	Namagiripettai	9356.00		2600.00	2600.00
58	21-22	Ilayangudi	5534.00		2450.00	2450.00
59	19-20	Omalur	3489.00		2158.00	2158.00
60	21-22	Mallasamudram	5737.00		2100.00	2100.00
61	19-20	Batlagundu (1)	17271.00		2009.00	2009.00
62	22-23	Palani Chettipatti	17566.00		2009.00	2009.00
63	22-23	Puliyur	8716.00		1795.00	1795.00

Sl. No.	Year	Name of the Town Panchayat	Legacy waste estimated (Cu.M)	Legacy waste 100% biominced	Under process (Balance Waste) (Cu.M)	
64	21-22	Velankanni (2)	7156.00		1574.00	1574.00
65	18-19	Omalur	4600.00		1452.00	1452.00
66	21-22	Kattuputhur	5590.00		1020.00	1020.00
67	22-23	Thirupuvanam (Tnj)	5530.00		800.00	800.00
68	22-23	Chinnasalem	4520.00		420.00	420.00
69	21-22	Muthupettai	6505.00		300.00	300.00
70	22-23 (A)	Srivaikuntam	670.96		670.96	670.96
71	22-23 (A)	Mukkudal	859.44		859.44	859.44
72	22-23 (A)	Sundarapandiam	1175.00		1175.00	1175.00
73	22-23 (A)	Sivagiri	1200.00		1200.00	1200.00
74	22-23 (A)	Palamedu (A)	1500.00		1500.00	1500.00
75	22-23 (A)	Alanganallur (A)	1513.00		1513.00	1513.00
76	22-23 (A)	Uppiliapuram	1763.00		1763.00	1763.00
77	22-23 (A)	Sriperumbudur	1800.00		1800.00	1800.00
78	22-23 (A)	Vadipatti	1800.00		1800.00	1800.00
79	22-23 (A)	Chettipalayam	1935.00		1935.00	1935.00
80	22-23 (A)	Keeramanagalam	1940.00		1940.00	1940.00
81	22-23 (A)	Kaliyakkavilai	2006.00		2006.00	2006.00
82	22-23 (A)	Punjai Thottakurichi	2067.50		2067.50	2067.50
83	22-23 (A)	Nagojanahalli	2070.00		2070.00	2070.00
84	22-23 (A)	Annavasal	2070.00		2070.00	2070.00
85	22-23 (A)	Watrap	2094.00		2094.00	2094.00
86	22-23 (A)	Pennathur	2194.03		2194.03	2194.03
87	22-23 (A)	Kaveripakkam	2700.00		2700.00	2700.00
88	22-23 (A)	Achirapakkam	2800.00		2800.00	2800.00
89	22-23	Kutchanur	3028.00		3028.00	3028.00
90	22-23 (A)	Ananthapuram	3126.00		3126.00	3126.00
91	22-23 (A)	PN Patti	3260.00		3260.00	3260.00
92	22-23 (A)	Moolaikaraipatti	3320.47		3320.47	3320.47
93	22-23 (A)	Manalurpettai	3500.00		3500.00	3500.00
94	22-23 (A)	Aravakurichi	3500.00		3500.00	3500.00
95	22-23 (A)	Karimangalam	3600.00		3600.00	3600.00
96	22-23 (A)	Vaithieswarankoil	3881.23		3881.23	3881.23

Sl. No.	Year	Name of the Town Panchayat	Legacy waste estimated (Cu.M)	Legacy waste 100% biominced	Under process (Balance Waste) (Cu.M)	
97	22-23 (A)	Melagaram	4221.00		4221.00	4221.00
98	22-23 (A)	Arani	4349.00		4349.00	4349.00
99	22-23	Kattumannarkoil	4472.00		4472.00	4472.00
100	22-23	Nangavalli	4500.00		4500.00	4500.00
101	22-23 (A)	Sulur (A)	4500.00		4500.00	4500.00
102	22-23	Thiyagadurgam	4720.00		4720.00	4720.00
103	22-23	Uthukottai	4750.00		4750.00	4750.00
104	22-23 (A)	Harur (A)	4850.00		4850.00	4850.00
105	22-23 (A)	Veerakkalpudur	4886.00		4886.00	4886.00
106	22-23	Kaveripattinam (2)	5000.00		5000.00	5000.00
107	22-23	Kadathur	5050.00		5050.00	5050.00
108	22-23	Naravarikuppam (2)	5230.00		5230.00	5230.00
109	22-23 (A)	Pillanallur	5291.00		5291.00	5291.00
110	22-23	B.Mallapuram	5300.00		5300.00	5300.00
111	22-23	Marandahalli	5400.00		5400.00	5400.00
112	22-23	Pennagaram	5400.00		5400.00	5400.00
113	22-23 (A)	Uthiramerur	5573.00		5573.00	5573.00
114	22-23	Mallur	5725.00		5725.00	5725.00
115	18-19	Thammampatti	5782.00		5782.00	5782.00
116	22-23	Aduthurai	5788.00		5788.00	5788.00
117	22-23 (A)	Vennandhur	5876.00		5876.00	5876.00
118	22-23 (A)	Nilakottai	5975.27		5975.27	5975.27
119	22-23 (A)	Keeranur	5994.10		5994.10	5994.10
120	22-23 (A)	Sholavandan	6000.00		6000.00	6000.00
121	22-23 (A)	Kannamangalam	7400.00		7400.00	7400.00
122	22-23	Batlagundu (2)	8000.00		8000.00	8000.00
123	22-23	Thirupporur	8022.00		8022.00	8022.00
124	22-23 (A)	Kurinjipadi	8298.43		8298.43	8298.43
125	22-23	Sarkarsamakulam	8365.00		8365.00	8365.00
126	22-23 (A)	Pallipet	8430.00		8430.00	8430.00
127	22-23 (A)	Kalavai	8500.00		8500.00	8500.00
128	22-23 (A)	Uthukuli	8500.00		8500.00	8500.00
129	22-23 (A)	Eruvadi	8556.00		8556.00	8556.00

Sl. No.	Year	Name of the Town Panchayat	Legacy waste estimated (Cu.M)	Legacy waste 100% biomined	Under process (Balance Waste) (Cu.M)	
130	22-23 (A)	Alangudi	9142.00		9142.00	9142.00
131	22-23	Attayampatty	9200.00		9200.00	9200.00
132	22-23 (A)	Vadakkuvalliyoor	9200.00		9200.00	9200.00
133	22-23 (A)	Konganapuram	9349.00		9349.00	9349.00
134	22-23 (A)	Pothanur	9568.00		9568.00	9568.00
135	22-23	Mecheri	9628.00		9628.00	9628.00
136	22-23	Jalagandapuram	9650.00		9650.00	9650.00
137	22-23	Thirupuvanam (Svg)	9900.00		9900.00	9900.00
138	22-23 (A)	Kallidaikurichi	9981.47		9981.47	9981.47
139	22-23	Kottur	10416.00		10416.00	10416.00
140	22-23	Uthangarai	10950.00		10950.00	10950.00
141	22-23 (A)	Chetpet	11581.00		11581.00	11581.00
142	22-23	Kolathur	12013.00		12013.00	12013.00
143	22-23	Natham	12400.00		12400.00	12400.00
144	22-23	Vedasandur	13212.00		13212.00	13212.00
145	22-23 (A)	Vettavalam	13600.00		13600.00	13600.00
146	22-23	Andipatti	13785.00		13785.00	13785.00
147	22-23	Tirukalukundram	14313.00		14313.00	14313.00
148	22-23 (A)	Palani Chettipatti (A)	17566.00		17566.00	17566.00
149	22-23	Palacode	30550.00		30550.00	30550.00

NMCG Format for Submission of Monthly Progress Report in the NGT Matter OA No.673 of 2018
(in compliance to NGT order dated 24.09.2020)

For the Month of : March 2023, Prepared By DTP

S.NO.	Details	TN State	PRS
I	Total Population:	7665951	443964
II	Estimated Sewage Generation (MLD)	429.29 MLD	24.86 MLD
III	Details of Sewage Treatment Plant:		
1a.	Existing no. of STPs/FSTP if any	14 (9 STP + 5 FSTP)	-
1b	Treatment Capacity (in MLD)	26.77 MLD	-
2	Capacity Utilization of existing STPs (MLD)	11.17 MLD	-
3	MLD of sewage being treated through Alternate Technology	3 MLD	-
4	Gap in Treatment Capacity in MLD	399.52 MLD	24.86 MLD
5	No. of Operational STPs	9	-
6	No. of Complying STPs	9	-
7	No. of Non-complying STPs	-	-
	Details of Under construction Sewage Treatment Plant:		
1	STP -Number	2	-
2	STP Capacity (MLD)	12.52	-
3	FSTP -Number	5	-
4	FSTP -capacity (MLD)	0.065	-
5	Status of I&D or House sewer connections	10174/10479	-
	Details of Proposed STP	TN State	PRS
1	STP/FSTP Number	-	-
2	STP/FSTP Capacity	-	-
3	No. of STPs under DPR	-	27
4	No. of DPRs approved for construction of STPs	-	-
5	No. of STPs under tender stage for construction	-	-
6	No. of tenders awarded for STP construction	-	-
7	No. of STPs completed	-	-
8	No. of constuction of STPs held up due to land issues	-	-
9	No. of land issues resolved	-	-

**NMCG Format for Submission of Monthly Progress Report in the NGT Matter OA No.673 of 2018
(in compliance to NGT order dated 24.09.2020)**

For the Month of March 2023 - Prepared By CTP _CMA/GCC/CTP/RD&PR

V	Solid Waste Management:						
1	Total number of Urban Local Bodies and their Population	Tamil Nadu State			Polluted River Stretches		
2	Current Municipal Solid Waste Generation TPD	1805 TPD			107.80 TPD		
3	Existing MSW processing facilities	Total No.	Installed Capacity (TPD)	Utilization Capacity (TPD)	Total No.	Installed Capacity (TPD)	Utilization Capacity (TPD)
a.	Windrow Compost	673	801	801	39	77	77
b.	Vermi Compost						
c.	Decentralized pit composting	39	111	111	4	7	7
d.	Biomethanation	18	37	37	1	10	10
e.	MRF/RRC	489	499	499	27	36	36
f.	others						
g.	Waste to Energy						
4	Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities	Waste to energy plants are to be proposed on cluster basis			Waste to energy plants are to be proposed on cluster basis		
5	No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)	Existing (No. & Capacity)	Proposed (No. & Capacity)	Under construction (No. & Capacity)	Existing (No. & Capacity)	Proposed (No. & Capacity)	Under construction (No. & Capacity)
6	Total no. of wards	7619			465		
	Total no. of wards having door to door collection service	7314			465		
	Total no. of wards practicing segregation at source	6857			418		
7a.	Details of MSW treatment facilities proposed (no.)	Tamil Nadu State (20)			Polluted River Stretches (0)		
	Details of MSW treatment facilities proposed (capacity, TPD)	-			-		
	Details of MSW treatment facilities proposed (technology)	-			-		
7b.	Details of MSW treatment facilities under construction (no.)	Incinerator - 9 nos / Pyrolysis - 10 nos			-		
	Details of MSW treatment facilities under construction (capacity, TPD)	Incinerators - (50 TPD) / Pyrolysis - (1 TPD)			-		
	Details of MSW treatment facilities under construction (technology)	Incineration & Pyrolysis			-		
8	No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.	-			-		
9	No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers	-			-		
10	No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers	-			-		
	Status of ULB wise SWM						
	ULB	490			27		
	Total MSW generated in TPD	1805			107.8		
	Total MSW processed in TPD	1570.35			93.78		

	Existing MSW facilities	Windrow compost, Vermi compost, Decentralized composting, Bio-gas,	Windrow and Vermi Compost
	Utilization capacity of the existing MSW facilities	1570.35 MT	93.78 MT
	Proposed MSW Facilities & Completion Timeline	Waste to energy plants are to be proposed on cluster basis	Waste to energy plants are to be proposed on cluster basis
	Status of RLB wise SWM	Tamil Nadu State	Polluted River Stretches
	RLB (No.),	-	-
	Total MSW generated in TPD	-	-
	Total MSW processed in TPD	-	-
	Existing MSW facilities	-	-
	Utilization capacity of the existing MSW facilities	-	-
	Proposed MSW Facilities & Completion Timeline	-	-

VIII	<u>Plastic Waste Management:</u>		
1	Total Plastic Waste	102 TPD	6.2 TPD
2	Treatment/ Measures adopted for reduction or management of plastic waste:	Recyclable/ Saleable plastics are been sold to authorized vendors Non- saleable plastics are been sent to cement factories and are used as a component for laying roads Waste to energy plants are to be proposed on cluster basis	Recyclable/ Saleable plastics are been sold to authorized vendors Non- saleable plastics are been sent to cement factories and are used as a component for laying roads Waste to energy plants are to be proposed on cluster basis
XXIV	Regulation of /Mining Activities in the State/UT		



DDLABS AEL <tnpcbprs@gmail.com>

RD & PR- NGT-O.A.673-MAR'23 MPR sent-reg

1 message

DRD&PR Chennai- TN <tnsbmg@gmail.com>
To: DDLABS AEL <tnpcbprs@gmail.com>

Wed, Apr 26, 2023 at 11:28 AM

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Sir/Madam,

Please see the attachment.

for DRD & PR



NGT OA 673_MARCH'23-MPR.doc
68K

Rural Development and Panchayat Raj.
National Mission for Clean Ganga
Format for submission of Monthly Progress Reporting the NGT Matter OA
No. 673 of 2018 (in compliance to NGT order dated 24.09.2020) for the
Month of March-2023

Overall status of the State:

- I. Total Population: Rural Population separately: 4,84,16,857
 II. Estimated Sewage Generation (MLD):1130

III. Details of Sewage Treatment Plant:

S.No.	Details of Sewage Treatment Plant	State	PRS
1	Existing no. of STPs and Treatment Capacity (in MLD)	-	-
2	Capacity Utilization of existing STPs	-	-
3	MLD of sewage being treated through Alternate technology	954	1.56
4	Gap in Treatment Capacity in MLD(Grey water)	175	0
5	No. of Operational STPs	-	-
6	No. of Complying STPs	-	-
7	No. of Non-complying STPs	-	-

**174.44 MLD of gap will be addressed by construction of individual soakpits and constructed wetlands in Phased manner in phased manner.

Details of each existing STP in the State& PRS

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
NIL					
Total					

Details of under construction STPs in the State& PRS

No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
NIL					
Total					

Details of proposed STPs in the State& PRS

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
NIL				
Total				

Details of proposed STPs in the State

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
NIL				
Total				

IV. Details of Industrial Pollution:

- No. of industries in the State& PRS:
- No. of water polluting industries in the State& PRS:
- Quantity of effluent generated from the industries in MLD:-
- Quantity of Hazardous Sludge generated from the Industries in TPD: -
- Number of industrial units having ETPs in State & PRS:
- Number of industrial units connected to CETP:
- Number and total capacity of ETPs (details of existing/ under construction / proposed)
- Compliance status of the ETPs:
- Number and total capacity of CETPs (details of existing/ under construction / proposed)
- Status of compliance and operation of the CETPs

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)

V. Solid Waste Management:

- Total number of Rural Local Bodies and their Population: 12525 Village Panchayats, Population 4,84,16,857
- Current Municipal Solid Waste Generation(**State & PRS**):**1272 TPD &8.30 TPD**
- Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), biomethanation, MRF etc(**State & PRS**): **12525&31**
- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)(**State & PRS**)
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)(**State & PRS**)

- Total no. of Village Panchayats, no. of Village Panchayats having door to door collection service, no. of Village Panchayats practicing segregation at source **(State & PRS): 12525 Village Panchayats& 31 Village Panchayats.**
- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)**(State & PRS)MCC – 287&1 (proposed)**
- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills- nil
- No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers- nil
- No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers.

Status of ULB wise Management of Solid Waste

ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
Total					

VI. Bio-medical Waste Management:

- Total Bio-medical generation (State & PRS):
- No. of Hospitals and Health Care Facilities:
- Status of Treatment Facility/ CBMWTF:

VII. Hazardous Waste Management:

- Total Hazardous Waste generation**(State & PRS):**
- No. of Industries generating Hazardous waste
- Treatment Capacity of all TSDFs
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated
- Details of on-going or proposed TSDF

VIII. Plastic Waste Management:

- Total Plastic Waste generation (State & PRS):
- Treatment/ Measures adopted for reduction or management of plastic waste:Total 213 Plastic Waste Management Units are functioning in all 37 Districts and additionally 1 Plastic Shredding units per Block will be provided under SBM (G). So far around 1, 70,243 kg of Plastic Waste shredded through the functional shredding units.

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

- X. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on *Insitu* treatment:
- XI. Details of Nodal Officer appointed by Chief Secretary in the State/UT:
- XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:
- XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;
- XIV. Ground water regulation:
- XV. Good irrigation practices being adopted by the State:
- XVI. Rain Water Harvesting:
- XVII. Demarcation of Floodplain and removal of illegal encroachments:
- XVIII. Maintaining minimum e-flow of river:
- XIX. Plantation activities along the rivers:
- XX. Development of biodiversity park:
- XXI. Reuse of Treated Water:
- XXII. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:
- XXIII. Status of Preparation of Action Plan by the 13 Coastal States:
- XXIV. Regulation of Mining Activities in the State/UT:
- XXV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring.

For Commissioner

**GOVERNMENT OF TAMILNADU
WATER RESOURCES DEPARTMENT**

From
Er. S. Prabakaran, B.E.,
Chief Engineer, WRD,
State Ground & Surface Water
Resources Data Centre,
Tharamani, Chennai - 600 113.
Email: cegwchennai@gmail.com

To
Deputy Director,
Tamil Nadu Pollution Control Board,
76, Mount Salai,
Guindy,
Chennai - 600 032.

Lr. No: / RRC / AGC / 2022 Dated: 25.04.2023

Sir,

Sub: NGT Case No 673/2018- Central Monitoring Committee (CMC) - Tamil Nadu Pollution Control Board (TNPCB) - Submission of Monthly Progress Report in the prescribed formats for the month of **March 2023**, for **Six Polluted river stretches**- Submission - Regarding.

Ref: 1. Email received from Deputy Director, TNPCB dated: 17.04.2023.

The monthly progress reports of the following polluted river stretches are herewith enclosed in the prescribed format for your information and for further action please.

- (i) **Sirumugai to Kalingarayan in River Bhavani**
- (ii) **Thathayampatti to T.Konagapadi in Sarabanga River**
- (iii) **Manivilundhan to Thiyaganur in Vasista River**
- (iv) **Salem to Papparpatti in Thirumanimutharu River**
- (v) **Mettur to Mayiladuthurai in Cauvery River**
- (vi) **Pappankulam to Arumuganeri Stretch in Thamirabarani River**

(Sd/-) Er. S. Prabakaran,
Chief Engineer (SG & SWRDC).
Tharamani, Chennai -113

Enclosure: Monthly progress reports

Copy presented to the Additional Chief Secretary, to Government, WRD, Fort. St. George, Chennai-9

Copy to Engineer-in-Chief and Chief Engineer (General), WRD, Chepauk, Chennai- 5


for Chief Engineer, WRD,
SG & SWRDC,
Tharamani, Chennai -113.


25/4/23

Format for Submission of Monthly Progress Report by States/ UTs
(Hon'ble NGT in the matter of OA No. 673/2018 dated 06.12.2019)
For the Month of **March 2023** for TNPWD WRD

XIII. Ground water regulation:

1.	Control of illegal Groundwater Abstraction	- For effective management of Ground Water, action is being initiated against illegally operating companies as Per Honorable Madras High Court order passed under WP No.16299 / 2018. Totally 683 packaged drinking water firms who were illegally operating have been sealed and closed. - Draft of "Tamil Nadu Water Resources Act" was prepared and sent to Government.
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I. Reach: Sirumugai to Kalingarayan stretch in Bhavani River

XIV. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;

The general distribution of ground water quality varies between Good to moderate level.

The State Ground and Surface Water Resources Data centre is having water quality data for number of locations. Moreover this department is mainly concerned with the analysis of inorganic parameters and hence TDS is being used as a vital tool in determining the quality of water as Good, Moderate or poor quality. But to identify pollution in an area, the pollution parameters such as Dissolved Oxygen (DO), Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Coliform, Faecal Coliform has to be measured. With the water quality data available in this Department, it can be inferred whether ground water of a particular area is suitable for drinking or not.

Hence it is suggested that water samples may be collected along this river stretch and analysis may be performed for pollution parameters to identify the extent of pollution.

XV. Good irrigation practices being adopted by the State:

Awareness meeting are conducted under TNIAMP, ADB & State Funds. In some parts of the reach, DRIP irrigation is practiced.

XVI. Rain Water Harvesting:

Existing structure	Ongoing works	Proposed works
41	Check dam – 1 No. Recharge shaft – 5 Nos.	--

XVII. Demarcation of Floodplain and removal of illegal encroachments:

Drone Survey has been completed by WAPCOS in January 2021. The draft DPR prepared by M/s.WAPCOS for conducting the above survey for identification of flood plain zones and area for afforestation to maintain Bio Diversity has been submitted and the scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai - 5 for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores.

55 nos. of encroachments are to be removed which belong to fishing community. Recommendations for alternate land has been sent to Secretary to Government Revenue department by Commissioner for Revenue administration vides letter no F.2/41632/2005/Dt.15.2.2006.

XVIII. Maintaining minimum e-flow of river:

An E-flow of 21,066 cusecs (including Irrigation purpose) was maintained in the river Bhavani during the month of **March 2023**.

XIX. Plantation activities along the rivers:

It is proposed to plant around 86,500 samplings under Nadanthai Vaazhi Cauvery for which a draft DPR has been prepared by M/s.WAPCOS and submitted and scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores.

XX. Development of biodiversity park:

Drone Survey has been completed by M/s.WAPCOS in January 2021. A draft DPR prepared by M/s.WAPCOS and has been submitted and the scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores.

II. Reach: Sarabanga River Thathayampatti to T.Konagapadi

XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;

The State Ground and Surface Water Resources Data Centre is having monitoring wells for observation of ground water quality in Danishpet, Omalur, Idaipadi, Thevur and Tharamangalam areas. While considering the Total dissolved solids of this stretch, it is found to vary between 227 mg/L to 1081 mg/L. Thevur and Tharamangalam is having TDS of good quality whereas the rest of the places having TDS value in the range of moderate quality.

The State Ground and Surface Water Resources Data centre is having water quality data for the lesser number of locations. Moreover this department is mainly concerned with the analysis of inorganic parameters and hence TDS is being used as a vital tool in determining the quality of water as Good, Moderate or poor quality. But to identify pollution in an area, the pollution parameters such as Dissolved Oxygen (DO), Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Coliform, Faecal Coliform have to be measured. With the water quality data available in this Department, it can be inferred whether ground water of a particular area is suitable for drinking or not.

Hence it is suggested that surface water samples may be collected along this river stretch and analysis may be performed for pollution parameters to identify the extent of pollution.

XIV. Good irrigation practices being adopted by the State:

Awareness meeting are conducted under TNIAMP, ADB & State Funds. In some parts of the reach DRIP irrigation is practiced.

XV. Rain Water Harvesting:

Existing structure	Ongoing works	Proposed works
5	2	10 Recharge wells

XVI. Demarcation of Flood plain and removal of illegal encroachments:

Drone Survey has been completed by WAPCOS in January 2021. The draft DPR prepared by M/s.WAPCOS for conducting the above survey for identification of flood plain zones and area for afforestation to maintain Bio Diversity has been submitted and the scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai - 5 for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores. Encroachment if any identified during the survey

will be evicted and other management works will be completed and rehabilitation and resettlement will be done.

XVII. Maintaining minimum e-flow of river:

This river is only a flood carrier. The sewage water enters in to the river in Edapaddi Municipality, Omalur Town Panchayat and Poolampatti Town Panchayat. The above treatment plants are proposed under Nadanthai Vaazhi Cauvery for which a draft DPR has been prepared by M/s.WAPCOS and the scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores. E flow will be maintained in this river after completion sewage treatment plants, as the treated water will flow as environmental flow.

XVIII. Plantation activities along the rivers:

It is proposed to plant around 32,400 samplings under Nadanthai Vaazhi Cauvery for which a draft DPR has been prepared by M/s.WAPCOS and has been submitted and scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores.

XIX. Development of biodiversity park:

Drone Survey has been completed by M/s.WAPCOS in January 2021. A draft DPR prepared by M/s.WAPCOS and has been submitted and the scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores.

III. Reach: Vasista River Manivilundhan to Thiyaganur

XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;

The SG&SWRDC is having monitoring wells for observing water quality data for the areas Papanaiickenpatti, Yethapur, Athur and Thalaivasal. The analytical reports of the ground water analysis of these areas reveals that water quality is of the order of both good and moderate. The TDS values of these areas ranging between 301 to 1096 mg/L.

The State Ground and Surface Water Resources Data centre is having water quality data for lesser number of locations. Moreover this department is mainly concerned with the analysis of inorganic parameters and hence TDS is being used as a vital tool in determining the quality of water as Good, Moderate or poor quality. But to identify pollution in an area, the pollution parameters such as Dissolved Oxygen(DO), Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Coliform, Faecal Coliform has to be measured. With the water quality data available in this Department, it can be inferred whether ground water of a particular area is suitable for drinking or not.

Hence it is suggested that water samples may be collected along this river stretch and analysis may be performed for pollution parameters to identify the extent of pollution.

XIV. Good irrigation practices being adopted by the State:

Awareness meeting are conducted under TNIAMP, ADB & State Funds. In some parts of the reach DRIP irrigation is practiced.

XV. Rain Water Harvesting:

Existing structure	Ongoing works	Proposed works
16	---	---

XVI. Demarcation of Floodplain and removal of illegal encroachments:

No Flood plains zones have been identified. No Encroachment has also been identified in the stretch. In case of any encroachments reported in the future by Revenue department, action will be taken for immediate eviction.

XVII. Maintaining minimum e-flow of river:

This river is only a flood carrier. But the sewage water enters in to the river in Attur and Narasingapuram Municipality. After completion sewage treatment plants in the above location, the treated water will flow as environment flow.

XVIII. Plantation activities along the rivers:

There is no proposal at present.

XIX. Development of biodiversity park:

There is no proposal at present.

Existing water	Proposed water
12	

IV. Reach: Salem to Papparapatti in Thirumanimutharu River

XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;

For this stretch the SG& SWRDC having monitoring wells for observation ground water quality in Salem, Attayampatti, and palapatti areas. From the observed data it is inferred that the quality of water is in moderate level i.e in these places TDS value ranges between 765 to 1197 mg/L.

The State Ground and Surface Water Resources Data centre is having water quality data for lesser number of locations. Moreover this department is mainly concerned with the analysis of inorganic parameters and hence TDS is being used as a vital tool in determining the quality of water as Good, Moderate or poor quality. But to identify pollution in an area, the pollution parameters such as Dissolved Oxygen(DO), Biochemical Oxygen Demand(BOD), Chemical Oxygen Demand(COD), Total Coliform, Faecal Coliform has to be measured. With the water quality data available in this Department, it can be whether ground water of a particular area is suitable for drinking or not.

Hence it is suggested that water samples may be collected along this river stretch and analysis may be performed for pollution parameters to identify the extent of pollution.

XIV. Good irrigation practices being adopted by the State:

Awareness meeting are conducted under TNIAMP, ADB & State Funds. In some parts of the reach DRIP irrigation is practiced.

XV. Rain Water Harvesting:

Existing structure	Ongoing works	Proposed works
6	----	14 (Recharge well structures)

XVI. Demarcation of Flood plain and removal of illegal encroachments:

Drone Survey has been completed by M/s.WAPCOS in January 2021. The draft DPR prepared by M/s.WAPCOS for conducting the above survey for identification of flood plain zones and area for afforestation to maintain Bio Diversity has been submitted and scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores. Encroachment if any identified during the survey will be evicted and other management works will be completed and rehabilitation and resettlement will be done.

XVII. Maintaining minimum e-flow of river:

This river is only a flood carrier. The sewage water enters in to the river in Salem Corporation. Treatment plants have been proposed under Nadanthai Vaazhi Cauvery. A draft DPR prepared by M/s.WAPCOS has been submitted and scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores. E flow will be maintained in this river after completion sewage treatment plants, as the treated water will flow as environmental flow.

XVIII. Plantation activities along the rivers:

It is proposed to plant around 42,000 samplings under Nadanthai Vaazhi Cauvery for which a draft DPR prepared by M/s.WAPCOS has been submitted and scrutinization of DPR is done by NRCD during March 2022 and DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores.

XIX. Development of biodiversity park:

Drone Survey is completed by M/s.WAPCOS in January 2021. A draft DPR prepared by M/s.WAPCOS has been submitted and scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores.

V. Reach: Mettur to Mayiladuthurai stretch in Cauvery River

XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;

This river stretch comprises districts of Dharmapuri, Erode, Salem, Namakkal, Karur, Trichy, Cuddalore and Thanjavur. The State Ground water Department is having ground water quality data for the areas of Dharmapuri, Mettur, Bhavani, Salem, Paramathivelur, Namakkal, Kumarapalayam, Karur, Erode, Musiri, Trichy, Kulithalai, Thanjavur, Kumbakonam and Mayiladuthurai. While considering the TDS value of Dharmapuri taluk it is found to vary between 412 to 1751 mg/L and the quality of ground water lies Moderate quality. In case of Bhavani river the TDS values ranging between Good to moderate. While reviewing WQ data of Salem, the TDS values found to vary between 384 to 2967 mg/L, the available ground water in Salem is having good, moderate and poor quality with major proportion moderate ground water. The water quality data of Namakkal shows the TDS values exceed even 5000 mg/L in some places with wide distribution of moderate water quality. While reviewing the water quality data of Trichy and Musiri the water quality is found to vary between good and moderate in most of the places with very few places having poor quality. Most of the locations in Cuddalore and Thanjavur are having good quality water. Few places of Cuddalore having TDS values more than 6000 mg/L.

The State Ground and Surface Water Resources Data centre is having water quality data for lesser number of locations. Moreover this department is mainly concerned with the analysis of inorganic parameters and hence TDS is being used as a vital tool in determining the quality of water as Good, Moderate or poor quality. But to identify pollution in an area, the pollution parameters such as Dissolved Oxygen(DO), Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Coliform, Faecal Coliform has to be measured. With the water quality data available in this Department, it can be inferred whether ground water of a particular area is suitable for drinking or not.

Hence it is suggested that water samples may be collected along this river stretch and analysis may be performed for pollution parameters to identify the extent of pollution.

XIV. Good irrigation practices being adopted by the State:

Awareness meeting are conducted under TNIAMP, ADB & State Funds. In some parts of the reach DRIP irrigation is practiced.

XV. Rain Water Harvesting:

Existing structure	Ongoing works	Proposed works
44	10	29

XVI. Demarcation of Floodplain and removal of illegal encroachments:

Drone Survey has been completed by M/s.WAPCOS in January 2021. The draft DPR prepared by M/s.WAPCOS for conducting the above survey for identification of flood plain zones and area for afforestation to maintain Bio Diversity has been submitted and the scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores. Encroachment if any identified during the survey will be evicted and other management works will be completed and rehabilitation and resettlement will be done.

XVII. Maintaining minimum e-flow of river:

Mettur dam is opened for irrigation from June 12th to January 28th based on availability of water every year. It is opened for drinking purpose in the remaining days, during the monsoon period at flood time the maximum flood discharge in the river has been 284606 cusecs on 08.07.1961. Usually a monthly minimum average E flow of 0.10 TMC is maintained. The E flow is maintained for more than 8 months. During the month of **March 2023** an E Flow of **0.107 TMC** was maintained.

XVIII. Plantation activities along the rivers:

It is proposed to plant around 1,44,500 samplings under Nadanthai Vaazhi Cauvery for which a draft DPR prepared by M/s.WAPCOS and has been submitted and the scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores.

XIX. Development of biodiversity park:

Drone survey has been completed by M/s.WAPCOS in January 2021. A draft DPR prepared by M/s.WAPCOS and has been submitted and the scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores.

VI. Reach: Pappankulam to Arumuganeri Stretch in Thamirabarani River

XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;

In Thamiraparani stretch, this department is having water quality data for Cheranmadevi, Thiruvidadaimaruthur, Ambasamudram, Tirunelveli, Palayamkottai, and Ariyanaygipuram. The collected data shows the ground water quality of this stretch is having all three types of good, poor and moderate based on TDS.

The State Ground and Surface Water Resources Data centre is having water quality data for lesser number locations. Moreover this department is mainly concerned with the analysis of inorganic parameters and hence TDS is used as a vital tool in determining the quality of water as Good, Moderate or poor quality. But to identify pollution in an area, the pollution parameters such as Dissolved Oxygen (DO), Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Coliform, Faecal Coliform has to be measured. With the water quality data available in this Department, it can be inferred whether ground water of a particular area is suitable for drinking or not.

Hence it is suggested that surface water samples may be collected along the river stretches and analysis may be performed for pollution parameters to identify the extent of pollution.

XIV. Ground water regulation:

Sl.No	Activity to be monitored	Monthly Progress for the month of March 2023
1.	Control of illegal Groundwater Abstraction	Thamirabarani basin area 9 illegally operating firkas have been sealed and closed.

XV. Good irrigation practices being adopted by the State:

Village level awareness campaigns were conducted periodically by PWD officials to adopt the crop rotation to have a good irrigation practices. Rehabilitation and modernization of Tanks, Anicuts and Supply channels are being carried out in TNIAMP project vide GO Ms No: 140 PW (WR 1) Dept Dt: 21.06.2017 for an amount of Rs.107.09 crores. Kudimaramath woks Vide G.O (Ms).No.98PW (W1) Dept/Dt: 22.04.2020 for an amount of Rs. 16.365 Crores. Is carried out in Tirunelveli and Thoothukudi Districts.

XVI. Rain Water Harvesting:

Existing structure	Ongoing works	Proposed works
7	4	230 nos. (Barrages 3 nos at cost of Rs. 230 Crores. Artificial Recharge well 221 nos and Recharge shaft 4 nos at a cost of Rs. 88.496 Crores.

XVII. Demarcation of Floodplain and removal of illegal encroachments:

To prepare comprehensive flood protection plan for Thamirabarani River Rs. 4.00 Lakhs has been allotted vide GO Ms. No. 37 Revenue (DMII) Department 9.02.2017. Estimate has been prepared for Rs. 4.00 Lakhs for the demarcation of Flood plain zone and steps are being taken for the Protection and management of Flood plain Zones of Thamirabarani River. Moreover in Tirunelveli Corporation, ProsopisJuliflora on the river stretches for a length of 10km from Vilagam to Naranammalpuram river bridge were removed at a cost of 140.00 lakhs vide GO (2D) No. 14 PW (P2) Dept Dated 8.03.2019 to restore the River course for a free flow flood water.

In River Banks of the Thamirabarani, the following encroachments were identified and demarcated by the water resources department/Public works department.

Sl. No	District	Encroachment Nos	Evicted Nos	Balance to be evicted Nos
1.	Tirunelveli	683	639	44
2.	Thoothukudi	1084	117	967
	Total	1767	756	1011

The issue of eviction notices to the encroachers under eviction of encroachment act is under progress in Tirunelveli and Thoothukudi Districts.

XVIII. Maintaining minimum e-flow of river:

An average of **383.75 cusecs** of water is released into the river in the month of **March 2023** to ensure minimum environmental flow.

XIX. Plantation activities along the rivers:

At present there is no proposal on plantation on the River Banks and investigation works are being taken to implement it by Forest Department.

XX. Development of biodiversity park:

At present there is no proposal on biodiversity parks on the encroached River stretches and investigation works are being taken to implement it.

XXI. Rejuvenation of River Thamirabarani:

A DPR for rejuvenation of River Thamirabarani and its tributaries have been prepared for Rs.1024 Crores by the environmental wing of Water Resources Department and has been submitted to the Engineer in Chief and Chief Engineer (General). It is under perusal for onward submission to the Government of Tamil Nadu.

(Sd/-) Er. S. Prabakaran,
Chief Engineer (SG & SWRDC).
Tharamani, Chennai -113


for Chief Engineer, WRD,
SG & SWRDC,
Tharamani, Chennai -113.


25/4/23

Format for Submission of Monthly Progress Report by States/ UTs
(Hon'ble NGT in the matter of OA No. 673/2018 dated 06.12.2019)
For the Month of **March 2023** for TNPWD WRD

XIII. Ground water regulation:

1.	Control of illegal Groundwater Abstraction	• For effective management of Ground Water, action is being initiated against illegally operating companies as Per Honorable Madras High Court order passed under WP No.16299 / 2018. Totally 683 packaged drinking water firms who were illegally operating have been sealed and closed. • Draft of "Tamil Nadu Water Resources Act" was prepared and sent to Government.
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I. Reach: Sirumugai to Kalingarayan stretch in Bhavani River

XIV. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;

The general distribution of ground water quality varies between Good to moderate level.

The State Ground and Surface Water Resources Data centre is having water quality data for number of locations. Moreover this department is mainly concerned with the analysis of inorganic parameters and hence TDS is being used as a vital tool in determining the quality of water as Good, Moderate or poor quality. But to identify pollution in an area, the pollution parameters such as Dissolved Oxygen (DO), Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Coliform, Faecal Coliform has to be measured. With the water quality data available in this Department, it can be inferred whether ground water of a particular area is suitable for drinking or not.

Hence it is suggested that water samples may be collected along this river stretch and analysis may be performed for pollution parameters to identify the extent of pollution.

XV. Good irrigation practices being adopted by the State:

Awareness meeting are conducted under TNIAMP, ADB & State Funds. In some parts of the reach, DRIP irrigation is practiced.

XVI. Rain Water Harvesting:

Existing structure	Ongoing works	Proposed works
41	Check dam – 1 No. Recharge shaft – 5 Nos.	--

XVII. Demarcation of Floodplain and removal of illegal encroachments:

Drone Survey has been completed by WAPCOS in January 2021. The draft DPR prepared by M/s.WAPCOS for conducting the above survey for identification of flood plain zones and area for afforestation to maintain Bio Diversity has been submitted and the scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai - 5 for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores.

55 nos. of encroachments are to be removed which belong to fishing community. Recommendations for alternate land has been sent to Secretary to Government Revenue department by Commissioner for Revenue administration vides letter no F.2/41632/2005/Dt.15.2.2006.

XVIII. Maintaining minimum e-flow of river:

An E-flow of **21,066** cusecs (including Irrigation purpose) was maintained in the river Bhavani during the month of **March 2023**.

XIX. Plantation activities along the rivers:

It is proposed to plant around 86,500 samplings under Nadanthai Vaazhi Cauvery for which a draft DPR has been prepared by M/s.WAPCOS and submitted and scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores.

XX. Development of biodiversity park:

Drone Survey has been completed by M/s.WAPCOS in January 2021. A draft DPR prepared by M/s.WAPCOS and has been submitted and the scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores.

II. Reach: Sarabanga River Thathayampatti to T.Konagapadi

XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;

The State Ground and Surface Water Resources Data Centre is having monitoring wells for observation of ground water quality in Danishpet, Omalur, Idaipadi, Thevur and Tharamangalam areas. While considering the Total dissolved solids of this stretch, it is found to vary between 227 mg/L to 1081 mg/L. Thevur and Tharamangalam is having TDS of good quality whereas the rest of the places having TDS value in the range of moderate quality.

The State Ground and Surface Water Resources Data centre is having water quality data for the lesser number of locations. Moreover this department is mainly concerned with the analysis of inorganic parameters and hence TDS is being used as a vital tool in determining the quality of water as Good, Moderate or poor quality. But to identify pollution in an area, the pollution parameters such as Dissolved Oxygen (DO), Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Coliform, Faecal Coliform have to be measured. With the water quality data available in this Department, it can be inferred whether ground water of a particular area is suitable for drinking or not.

Hence it is suggested that surface water samples may be collected along this river stretch and analysis may be performed for pollution parameters to identify the extent of pollution.

XIV. Good irrigation practices being adopted by the State:

Awareness meeting are conducted under TNIAMP, ADB & State Funds. In some parts of the reach DRIP irrigation is practiced.

XV. Rain Water Harvesting:

Existing structure	Ongoing works	Proposed works
5	2	10 Recharge wells

XVI. Demarcation of Flood plain and removal of illegal encroachments:

Drone Survey has been completed by WAPCOS in January 2021. The draft DPR prepared by M/s.WAPCOS for conducting the above survey for identification of flood plain zones and area for afforestation to maintain Bio Diversity has been submitted and the scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai - 5 for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores. Encroachment if any identified during the survey

will be evicted and other management works will be completed and rehabilitation and resettlement will be done.

XVII. Maintaining minimum e-flow of river:

This river is only a flood carrier. The sewage water enters in to the river in Edapaddi Municipality, Omalur Town Panchayat and Poolampatti Town Panchayat. The above treatment plants are proposed under Nadanthai Vaazhi Cauvery for which a draft DPR has been prepared by M/s.WAPCOS and the scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores. E flow will be maintained in this river after completion sewage treatment plants, as the treated water will flow as environmental flow.

XVIII. Plantation activities along the rivers:

It is proposed to plant around 32,400 samplings under Nadanthai Vaazhi Cauvery for which a draft DPR has been prepared by M/s.WAPCOS and has been submitted and scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores.

XIX. Development of biodiversity park:

Drone Survey has been completed by M/s.WAPCOS in January 2021. A draft DPR prepared by M/s.WAPCOS and has been submitted and the scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores.

III. Reach: Vasista River Manivilundhan to Thiyaganur

XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;

The SG&SWRDC is having monitoring wells for observing water quality data for the areas Papanaiickenpatti, Yethapur, Athur and Thalaivasal. The analytical reports of the ground water analysis of these areas reveals that water quality is of the order of both good and moderate. The TDS values of these areas ranging between 301 to 1096 mg/L.

The State Ground and Surface Water Resources Data centre is having water quality data for lesser number of locations. Moreover this department is mainly concerned with the analysis of inorganic parameters and hence TDS is being used as a vital tool in determining the quality of water as Good, Moderate or poor quality. But to identify pollution in an area, the pollution parameters such as Dissolved Oxygen(DO), Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Coliform, Faecal Coliform has to be measured. With the water quality data available in this Department, it can be inferred whether ground water of a particular area is suitable for drinking or not.

Hence it is suggested that water samples may be collected along this river stretch and analysis may be performed for pollution parameters to identify the extent of pollution.

XIV. Good irrigation practices being adopted by the State:

Awareness meeting are conducted under TNIAMP, ADB & State Funds. In some parts of the reach DRIP irrigation is practiced.

XV. Rain Water Harvesting:

Existing structure	Ongoing works	Proposed works
16	---	---

XVI. Demarcation of Floodplain and removal of illegal encroachments:

No Flood plains zones have been identified. No Encroachment has also been identified in the stretch. In case of any encroachments reported in the future by Revenue department, action will be taken for immediate eviction.

XVII. Maintaining minimum e-flow of river:

This river is only a flood carrier. But the sewage water enters in to the river in Attur and Narasingapuram Municipality. After completion sewage treatment plants in the above location, the treated water will flow as environment flow.

XVIII. Plantation activities along the rivers:

There is no proposal at present.

XIX. Development of biodiversity park:

There is no proposal at present.

IV. Reach: Salem to Pappalapatti in Thirumanimutharu River

XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;

For this stretch the SG& SWRDC having monitoring wells for observation ground water quality in Salem, Attayampatti, and palapatti areas. From the observed data it is inferred that the quality of water is in moderate level i.e in these places TDS value ranges between 765 to 1197 mg/L.

The State Ground and Surface Water Resources Data centre is having water quality data for lesser number of locations. Moreover this department is mainly concerned with the analysis of inorganic parameters and hence TDS is being used as a vital tool in determining the quality of water as Good, Moderate or poor quality. But to identify pollution in an area, the pollution parameters such as Dissolved Oxygen(DO), Biochemical Oxygen Demand(BOD), Chemical Oxygen Demand(COD), Total Coliform, Faecal Coliform has to be measured. With the water quality data available in this Department, it can be whether ground water of a particular area is suitable for drinking or not.

Hence it is suggested that water samples may be collected along this river stretch and analysis may be performed for pollution parameters to identify the extent of pollution.

XIV. Good irrigation practices being adopted by the State:

Awareness meeting are conducted under TNIAMP, ADB & State Funds. In some parts of the reach DRIP irrigation is practiced.

XV. Rain Water Harvesting:

Existing structure	Ongoing works	Proposed works
6	----	14 (Recharge well structures)

XVI. Demarcation of Flood plain and removal of illegal encroachments:

Drone Survey has been completed by M/s.WAPCOS in January 2021. The draft DPR prepared by M/s.WAPCOS for conducting the above survey for identification of flood plain zones and area for afforestation to maintain Bio Diversity has been submitted and scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores. Encroachment if any identified during the survey will be evicted and other management works will be completed and rehabilitation and resettlement will be done.

XVII. Maintaining minimum e-flow of river:

This river is only a flood carrier. The sewage water enters in to the river in Salem Corporation. Treatment plants have been proposed under Nadanthai Vaazhi Cauvery. A draft DPR prepared by M/s.WAPCOS has been submitted and scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores. E flow will be maintained in this river after completion sewage treatment plants, as the treated water will flow as environmental flow.

XVIII. Plantation activities along the rivers:

It is proposed to plant around 42,000 samplings under Nadanthai Vaazhi Cauvery for which a draft DPR prepared by M/s.WAPCOS has been submitted and scrutinization of DPR is done by NRCD during March 2022 and DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores.

XIX. Development of biodiversity park:

Drone Survey is completed by M/s.WAPCOS in January 2021. A draft DPR prepared by M/s.WAPCOS has been submitted and scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores.

V. Reach: Mettur to Mayiladuthurai stretch in Cauvery River

XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;

This river stretch comprises districts of Dharmapuri, Erode, Salem, Namakkal, Karur, Trichy, Cuddalore and Thanjavur. The State Ground water Department is having ground water quality data for the areas of Dharmapuri, Mettur, Bhavani, Salem, Paramathivelur, Namakkal, Kumarapalayam, Karur, Erode, Musiri, Trichy, Kulithalai, Thanjavur, Kumbakonam and Mayiladuthurai. While considering the TDS value of Dharmapuri taluk it is found to vary between 412 to 1751 mg/L and the quality of ground water lies Moderate quality. In case of Bhavani river the TDS values ranging between Good to moderate. While reviewing WQ data of Salem, the TDS values found to vary between 384 to 2967 mg/L, the available ground water in Salem is having good, moderate and poor quality with major proportion moderate ground water. The water quality data of Namakkal shows the TDS values exceed even 5000 mg/L in some places with wide distribution of moderate water quality. While reviewing the water quality data of Trichy and Musiri the water quality is found to vary between good and moderate in most of the places with very few places having poor quality. Most of the locations in Cuddalore and Thanjavur are having good quality water. Few places of Cuddalore having TDS values more than 6000 mg/L.

The State Ground and Surface Water Resources Data centre is having water quality data for lesser number of locations. Moreover this department is mainly concerned with the analysis of inorganic parameters and hence TDS is being used as a vital tool in determining the quality of water as Good, Moderate or poor quality. But to identify pollution in an area, the pollution parameters such as Dissolved Oxygen(DO), Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Coliform, Faecal Coliform has to be measured. With the water quality data available in this Department, it can be inferred whether ground water of a particular area is suitable for drinking or not.

Hence it is suggested that water samples may be collected along this river stretch and analysis may be performed for pollution parameters to identify the extent of pollution.

XIV. Good irrigation practices being adopted by the State:

Awareness meeting are conducted under TNIAMP, ADB & State Funds. In some parts of the reach DRIP irrigation is practiced.

XV. Rain Water Harvesting:

Existing structure	Ongoing works	Proposed works
44	10	29

XVI. Demarcation of Floodplain and removal of illegal encroachments:

Drone Survey has been completed by M/s.WAPCOS in January 2021. The draft DPR prepared by M/s.WAPCOS for conducting the above survey for identification of flood plain zones and area for afforestation to maintain Bio Diversity has been submitted and the scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores. Encroachment if any identified during the survey will be evicted and other management works will be completed and rehabilitation and resettlement will be done.

XVII. Maintaining minimum e-flow of river:

Mettur dam is opened for irrigation from June 12th to January 28th based on availability of water every year. It is opened for drinking purpose in the remaining days, during the monsoon period at flood time the maximum flood discharge in the river has been 284606 cusecs on 08.07.1961. Usually a monthly minimum average E flow of 0.10 TMC is maintained. The E flow is maintained for more than 8 months. During the month of **March 2023** an E Flow of **0.107** TMC was maintained.

XVIII. Plantation activities along the rivers:

It is proposed to plant around 1,44,500 samplings under Nadanthai Vaazhi Cauvery for which a draft DPR prepared by M/s.WAPCOS and has been submitted and the scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores.

XIX. Development of biodiversity park:

Drone survey has been completed by M/s.WAPCOS in January 2021. A draft DPR prepared by M/s.WAPCOS and has been submitted and the scrutinization of DPR is done by NRCD during March 2022 and finalization of DPR – Phase-I is done and send to The Engineer-in-Chief & Chief Engineer (General), WRD, Chepauk, Chennai for funding. The tentative cost of the DPR – Phase-I is around 1205.50 crores.

VI. Reach: Pappankulam to Arumuganeri Stretch in Thamirabarani River

XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river;

In Thamiraparani stretch, this department is having water quality data for Cheranmadevi, Thiruvidadimaruthur, Ambasamudram, Tirunelveli, Palayamkottai, and Ariyanaygipuram. The collected data shows the ground water quality of this stretch is having all three types of good, poor and moderate based on TDS.

The State Ground and Surface Water Resources Data centre is having water quality data for lesser number locations. Moreover this department is mainly concerned with the analysis of inorganic parameters and hence TDS is used as a vital tool in determining the quality of water as Good, Moderate or poor quality. But to identify pollution in an area, the pollution parameters such as Dissolved Oxygen (DO), Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Coliform, Faecal Coliform has to be measured. With the water quality data available in this Department, it can be inferred whether ground water of a particular area is suitable for drinking or not.

Hence it is suggested that surface water samples may be collected along the river stretches and analysis may be performed for pollution parameters to identify the extent of pollution.

XIV. Ground water regulation:

Sl.No	Activity to be monitored	Monthly Progress for the month of March 2023
1.	Control of illegal Groundwater Abstraction	Thamirabarani basin area 9 illegally operating firkas have been sealed and closed.

XV. Good irrigation practices being adopted by the State:

Village level awareness campaigns were conducted periodically by PWD officials to adopt the crop rotation to have a good irrigation practices. Rehabilitation and modernization of Tanks, Anicuts and Supply channels are being carried out in TNIAMP project vide GO Ms No: 140 PW (WR 1) Dept Dt: 21.06.2017 for an amount of Rs.107.09 crores. Kudimaramath woks Vide G.O (Ms).No.98PW (W1) Dept/Dt: 22.04.2020 for an amount of Rs. 16.365 Crores. Is carried out in Tirunelveli and Thoothukudi Districts.

XVI. Rain Water Harvesting:

Existing structure	Ongoing works	Proposed works
7	4	230 nos. (Barrages 3 nos at cost of Rs. 230 Crores. Artificial Recharge well 221 nos and Recharge shaft 4 nos at a cost of Rs. 88.496 Crores.

XVII. Demarcation of Floodplain and removal of illegal encroachments:

To prepare comprehensive flood protection plan for Thamirabarani River Rs. 4.00 Lakhs has been allotted vide GO Ms. No. 37 Revenue (DMII) Department 9.02.2017. Estimate has been prepared for Rs. 4.00 Lakhs for the demarcation of Flood plain zone and steps are being taken for the Protection and management of Flood plain Zones of Thamirabarani River. Moreover in Tirunelveli Corporation, ProsopisJuliflora on the river stretches for a length of 10km from Vilagam to Naranammalpuram river bridge were removed at a cost of 140.00 lakhs vide GO (2D) No. 14 PW (P2) Dept Dated 8.03.2019 to restore the River course for a free flow flood water.

In River Banks of the Thamirabarani, the following encroachments were identified and demarcated by the water resources department/Public works department.

Sl. No	District	Encroachment Nos	Evicted Nos	Balance to be evicted Nos
1.	Tirunelveli	683	639	44
2.	Thoothukudi	1084	117	967
	Total	1767	756	1011

The issue of eviction notices to the encroachers under eviction of encroachment act is under progress in Tirunelveli and Thoothukudi Districts.

XVIII. Maintaining minimum e-flow of river:

An average of **383.75 cusecs** of water is released into the river in the month of **March 2023** to ensure minimum environmental flow.

XIX. Plantation activities along the rivers:

At present there is no proposal on plantation on the River Banks and investigation works are being taken to implement it by Forest Department.

XX. Development of biodiversity park:

At present there is no proposal on biodiversity parks on the encroached River stretches and investigation works are being taken to implement it.

XXI. Rejuvenation of River Thamirabarani:

A DPR for rejuvenation of River Thamirabarani and its tributaries have been prepared for Rs.1024 Crores by the environmental wing of Water Resources Department and has been submitted to the Engineer in Chief and Chief Engineer (General). It is under perusal for onward submission to the Government of Tamil Nadu.

(Sd/-) Er. S. Prabakaran,
Chief Engineer (SG & SWRDC).
Tharamani, Chennai -113

for Chief Engineer, WRD,
SG & SWRDC,
Tharamani, Chennai -113.



TAMIL NADU POLLUTION CONTROL BOARD

76, Mount Salai, Guindy, Chennai - 600 032.

Water Quality Status of Polluted River Stretches

**River Sarabanga - Polluted river stretches from Thathayampatti to T.Konagapadi - 15
KM - Priority-I**

Sl. No.	Name of station	Station Code No.	Mar-23				
			pH	D.O mg/L	BOD at 27 ^o C mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml
1	Edappadi (River)	3024	7.7	Nil	27.0	920	2400

Standard limit for pH 6.5 to 8.5

Standard limit for DO 5.0 mg/l or more

Standard limit for BOD 3 mg/L or less

Standard limit for Total coliform MPN/100ml shall be 500 or less



TAMIL NADU POLLUTION CONTROL BOARD

76, Mount Salai, Guindy, Chennai - 600 032.

Water Quality Status of Polluted River Stretches

**River Thirumanimutharu - Polluted river stretches from Salem to Pappalapatti - 15
KM - Priority-I**

Sl. No.	Name of station	Station Code No.	Mar-23				
			pH	D.O mg/L	BOD at 27 ⁰ C mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml
1	Uthamasolapuram (River)	3022	7.8	1.5	21	1400	3900

Standard limit for pH 6.5 to 8.5

Standard limit for DO 5.0 mg/l or more

Standard limit for BOD 3 mg/L or less

Standard limit for Total coliform MPN/100ml shall be 500 or less



TAMIL NADU POLLUTION CONTROL BOARD

76, Mount Salai, Guindy, Chennai - 600 032.

Water Quality Status of Polluted River Stretches

**River Vasista - Polluted river stretches from Manivilundhan to Thiyaganur - 10
KM - Priority - I**

Sl. No.	Name of station	Station Code No.	Mar-23				
			pH	D.O mg/L	BOD at 27° C mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml
1	Thulukkanur (River)	3023	7.0	Nil	60.0	14000	39000

Standard limit for pH 6.5 to 8.5

Standard limit for DO 5.0 mg/l or more

Standard limit for BOD 3 mg/L or less

Standard limit for Total coliform MPN/100ml shall be 500 or less



TAMIL NADU POLLUTION CONTROL BOARD

76, Mount Salai, Guindy, Chennai - 600 032.

Water Quality Status of Polluted River Stretches

**River Cauvery - Polluted river stretches from Mettur to Mayiladuthurai - 200 KM -
Priority - I**

Sl.No.	Name of station	Station Code No.	Mar-23				
			pH	D.O mg/L	BOD at 27° C mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml
1	Mettur	50	7.8	6.2	2.1	14	39
2	Pallipalayam	51	8.0	6.2	<2	21	39
3	Musiri Borewell	32	No flow				
4	Musiri Ferry Gate	31	7.8	7.9	<2	14	24
5	Komarapalayam	3012	7.7	6.2	<2	17	38
6	Urachikottai	3013	8.5	6.5	<2	24	47
7	Seerampalayam	3014	8.1	6.2	<2	20	39
8	Pugalur	3015	8.0	6.5	<2	17	39
9	Pettavaithalai	3016	8.12	7.5	<2	17	38
10	Kumbakonam	3017	No flow				
11	Mayiladurai	3018	No flow				
12	R.N. Pudur	1322	8.1	6.5	<2	24	47
13	Vairapalayam	1320	7.8	5.9	2.4	24	47
14	P. Velur	1323	8.2	6.2	<2	20	32
15	Mohanur	1324	8.3	6.2	<2	24	39
16	Thirumukkudal	1451	8.4	6.7	<2	22	47
17	Trichy Upstream	1202	8.3	7.8	<2	14	24
18	Trichy Downstream	1325	8.0	5.7	<2	17	39
19	Grand Anaicut	1203	7.8	5.8	<2	32	94

Standard limit for pH 6.5 to 8.5

Standard limit for DO 5.0 mg/l or more

Standard limit for BOD 3 mg/L or less

Standard limit for Total coliform MPN/100ml shall be 500 or less



TAMIL NADU POLLUTION CONTROL BOARD

76, Mount Salai, Guindy, Chennai - 600 032.

Water Quality Status of Polluted River Stretches

**River Bhavani Polluted river stretches from Sirumugai to Kalingarayan - 60 KM -
Priority-IV**

Sl. No.	Name of station	Station Code No.	Mar-23				
			pH	D.O mg/L	BOD at 27 ⁰ C mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml
1	Badrakaliamman koil	1201	7.8	6.2	<2	12	24
2	Sirumugai	1204	7.5	6.2	2.1	14	33
3	Bhavanisagar	1321	7.4	6.5	<2	11	24
4	Bhavani	1205	7.8	6.7	<2	20	39
5	Sathyamangalam	3019	7.3	6.7	<2	14	33
6	Kalingarayan Canal (B5)	3020	8.0	6.7	<2	20	39
7	Kalingarayan Canal (B10)	3021	8.5	6.2	<2	20	47

Standard limit for pH 6.5 to 8.5

Standard limit for DO 5.0 mg/l or more

Standard limit for BOD 3 mg/L or less

Standard limit for Total coliform MPN/100ml shall be 500 or less



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Water Quality Status of Polluted River Stretches

**River Thamirabarani Polluted river stretches from Pappankulam to
Arumuganeri - 80 KM - Priority-V**

Sl. No.	Name of station	Station Code No.	Mar-23				
			pH	D.O mg/L	BOD at 27 ⁰ C mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml
1	Papanasam	1159	7.1	6.8	<2	17	26
2	Cheranmadevi	1160	6.9	6.3	<2	14	31
3	Kokirakulam	1161	6.8	6.9	<2	17	25
4	Murapanadu	1162	7.7	6.6	<2	17	25
5	Thiruvidaïmarudur	1328	6.8	6.2	<2	14	26
6	Ambasamudram	1329	6.9	6.8	<2	21	39
7	Authoor	1330	7.9	6.8	<2	14	31
8	Eral	3025	7.9	6.5	<2	14	26
9	Kallidaikurichi	3026	6.8	6.4	<2	20	34
10	Srivaikuntam	3027	7.9	6.2	<2	20	34
11	Vellakovil	3028	7.0	6.6	<2	24	47
12	Seevalaperi	3029	6.8	6.8	<2	12	25

Standard limit for pH 6.5 to 8.5

Standard limit for DO 5.0 mg/l or more

Standard limit for BOD 3 mg/L or less

Standard limit for Total coliform MPN/100ml shall be 500 or less

Sl. No.	Cauvery	Sl. No	Bhavani	Sl.No.	Thamirabarani
1	Mettur	1	Badrakaliamman koil	1	Papanasam
2	Pallipalayam	2	Sirumugai	2	Cheranmadevi
3	Musiri Borewell	3	Bhavanisagar	3	Kokirakulam
4	Musiri Ferry Gate	4	Bhavani	4	Murapanadu
5	Komarapalayam	5	Sathyamangalam	5	Thiruvidadimarudur
6	Urachikottai	6	Kalingarayan Canal (B5)	6	Ambasamudram
7	Seerampalayam	7	Kalingarayan Canal (B10)	7	Authoor
8	Pugalur			8	Eral
9	Pettavaithalai			9	Kallidaikurichi
10	Kumbakonam			10	Srivaikuntam
11	Mayiladurai			11	Vellakovil
12	R.N. Pudur			12	Seevalaperi
13	Vairapalayam	1	Sarabanga , Edappadi		
14	P. Velur	2	Vasista , Thulukkanur		
15	Mohanur	3	Thirumanimutharu , Uthamasolapuram		
16	Thirumukkudal				
17	Trichy Upstream				
18	Trichy Downstream				
19	Grand Anaicut				



TAMIL NADU POLLUTION CONTROL BOARD

76, Mount Salai, Guindy, Chennai - 600 032.

Details of sampling locations under Polluted River Stretches

Sl. No.	River	Stretch	Location
1	Sarabanga	Thathayampatti to T.Konagapadi - 15 KM	Edappadi
		Total	1
2	Thirumanimuthar	Salem to Papparapatti - 15 KM	Uthamasolapuram
		Total	1
3	Vasista	Manivittundanan to Thiyaganur - 10 KM	Thulukkanur
		Total	1
4	Cauvery	Mettur to Mayiladuthurai - 200 KM	Mettur
			Pallipalayam
			Musiri Borewell
			Musiri Ferry Gate
			Komarapalayam
			Urachikottai
			Seerampalayam
			Pugalur
			Pettavaithalai
			Kumbakonam
			Mayiladurai
			R.N. Pudur
			Vairapalayam
			P. Velur
			Mohanur
		Total	19
5	Bhavani	Sirumugai to Kalingarayan - 60 KM	Badrakaliamman koil
			Sirumugai
			Bhavanisagar
			Bhavani
			Sathyamangalam
			Kalingarayan Canal (B5)
		Total	7
6	Tamirabarani	Pappankulam to Arumuganeri - 80 KM	Papanasam
			Cheranmadevi
			Kokirakulam
			Murapanadu
			Thiruvaidaimarudur
			Ambasamudram
			Authoor
			Eral
			Kallidaikurichi
			Srivaikuntam
			Vellakovil
			Seevalaperi

		Total	12
		Grand Total	41



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76, Mount Salai, Guindy, Chennai - 600 032.

Water Quality Status of Polluted River Stretches

River Thamirabarani Polluted river stretches from Pappankulam to Arumuganeri - 80 KM - Priority-V

Annexure - I

Sl. No.	Name of station	Station Code No.	Jan-22			Feb-22			Mar-22			Apr-22		
			D.O mg/L	BOD at 27° C mg/L	Fecal coliform MPN/100 ml	D.O mg/L	BOD at 27° C mg/L	Fecal coliform MPN/100 ml	D.O mg/L	BOD at 27° C mg/L	Fecal coliform MPN/100 ml	D.O mg/L	BOD at 27° C mg/L	Fecal coliform MPN/100 ml
1	Papanasam	1159	7.0	2.4	<1.8	9.8	2.5	<1.8	6.7	2.4	<1.8	7.5	2.4	<1.8
2	Cheranmadevi	1160	7.0	2.5	11	7.7	2.5	1.8	6.6	2.4	1.8	7.2	2.6	1.8
3	Kokirakulam	1161	6.8	2.4	17	6.4	2.6	3.6	6.4	2.4	11.0	6.7	2.4	4.5
4	Murapanadu	1162	7.0	2.5	17	7.3	2.5	12.0	7.6	2.5	21.0	6.6	2.7	17.0
5	Thiruvidaimarudur	1328	7.2	2.5	4	7.6	2.6	<1.8	7.8	2.6	<1.8	7.3	2.2	1.8
6	Ambasamudram	1329	6.8	2.5	<1.8	8.8	2.5	<1.8	7.2	2.5	<1.8	7.3	2.3	<1.8
7	Authoor	1330	6.7	2.5	31	6.7	2.4	25.0	7.9	2.7	39.0	6.7	2.8	34.0
8	Eral	3025	6.9	2.4	27	7.3	2.3	17.0	7.4	2.6	31.0	3.0	2.9	70.0
9	Kallidaikurichi	3026	7.1	2.3	2	8.4	2.6	<1.8	7.5	2.4	<1.8	7.4	2.3	<1.8
10	Srivaikuntam	3027	7	2.6	20	8.7	2.3	17.0	7.9	2.5	26.0	5.7	2.7	21.0
11	Vellakovil	3028	6.8	2.3	13	7.2	2.6	3.6	7.8	2.5	6.8	6.8	2.4	3.6
12	Seevalaperi	3029	6.7	2.3	17	5.6	2.6	3.6	7.6	2.6	6.8	6.8	2.5	3.6

Standard limit for BOD <3 mg/L

Standard limit for Fecal coliform <500 MPN/100ml

Standard limit for DO 5.0 mg/l or more