TAMIL NADU POLLUTION CONTROL BOARD

From	To
R.Viyayabhaskaran ME, M.B.A Member Secretary (i/c), Tamil Nadu Pollution Control Board, Guindy Chennai-600 032.	The Additional Chief Secretary to Govt., Environment, Climate Change and Forests Department, Government of Tamil Nadu, Secretariat, Chennai- 600 009.

Lr.No.TNPCB/DDL/F-6849/PRS-MPR/2019/dated: 04.02.2022.

Madam,

Sub: TNPCB-Submission of Revised Monthly Progress Report for the month of **December 2021**-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. 12.01.2022

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 **December 2021** 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

Sd/-R. Viyayabhaskaran
Member Secretary

R. Thanasekaran 7/2
Deputy Director (Labs)

Copy to: File

7/2/22

No. 76, MOUNT SALAI, GUINDY, CHENNAI - 600 032.
Telephone : 22353134 to 141, Fax : 044-22353068
Email : tnpcb-chn@gov.in Web : www.tnpcb.gov.in

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)

December 2021

Sl. No.	Progress report submitted by department	Enclosures
1.	Commissionerate of Municipal Administration (CMA), Chennai Metrowater Supply & Sewage Board (CMWSSB), and Greater Chennai Corporation (GCC)	Enclosed vide Annexure –I
2.	Director of Town Panchayat (DTP)	Enclosed vide Annexure –II
3.	Department of Panchayat Raj and Rural Development (DRD&PR)	Enclosed vide Annexure –III
4.	Public Works Department PWD & WRD	Enclosed vide Annexure –IV
5.	Tamil Nadu Pollution Control Board	Enclosed vide Annexure –V

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)

Month: December 2021

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): 3786.16 MLD (State)

b. Estimated Sewage Generation (MLD): 388.39 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)	76 1710.59	13 264.87
2.	Capacity Utilization of existing STPs	1025	132.21
3.	MLD of sewage being treated through Alternate technology	752	1.56
4.	Existing No. of FSTP and Capacity (in MLD)	18 0.52	2 0.06
5.	Gap in Treatment Capacity in MLD	1323.05	121.90
6.	No. of Operational STPs	76	13
7.	No. of Complying STPs	76	13
8.	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.	Nesapakkam Zone –IV	23	12.30	Operational	Complied
2.	Koyambedu Zone – II	34	30.67	Operational	Complied
3.	Kodungaiyur Zone II	80	68.99	Operational	Complied
4.	Kodungaiyur Zone I	80	70.00	Operational	Complied
5.	Perungudi Zone - V	12	10.38	Operational	Complied
6.	Koyambedu Zone - III	60	19.38	Operational	Complied

7.	Kodungaiyur Zone I& II	110	90.49	Operational	Complied
8.	Nesapakkam Zone –IV	40	33.25	Operational	Complied
9.	Perungudi Zone-V	54	59.49	Operational	Complied
10	Perungudi Zone-V	60	63.13	Operational	Complied
11	Nesapakkam Zone –IV	54	51.12	Operational	Complied
12	Koyambedu Zone – III	120	110.78	Operational	Complied
13	Sholinganallur	18	9.95	Operational	Complied
Total (13 Nos)		**745**	**629.97**	.	
	CMA				
14	Coimbatore- 1	70.00	35.00	Operational	Complied
15	Coimbatore- 2	60.00	5.00	Operational	Complied
16	Vellore	10.28	8.00	Operational	Complied
17	Dindigul	13.65	3.00	Operational	Complied
18	Avadi	36.0	1.00	Operational	Complied
19	Avadi	4.0	2.50	Operational	Complied
20	Madurai-1	125.0	24.0	Operational	Complied
21	Madurai-2	45.70	15.00	Operational	Complied
22	Thanjavur	28.05	14.15	Operational	Complied
23	Tiruppur	15.00	8.50	Operational	Complied
24	Cuddalore	12.25	6.50	Operational	Complied
25	Kanchipuram	14.70	14.70	Operational	Complied
26	Maraimalai Nagar	2.20	2.20	Operational	Complied
27	Tiruvallur	6.20	5.50	Operational	Complied
28	Chidambaram	9.44	3.65	Operational	Complied
29	Thiruvannamalai	8.70	4.50	Operational	Complied
30	Viluppuram – Kakuppam	9.00	7.00	Operational	Complied

31	Viluppuram - Erumanthangal	3.50	1.80	Operational	Complied
32	Arakkonam	11.04	2.00	Operational	Complied
33	Thirupathur	11.43	2.40	Operational	Complied
34	Bodinayakkanur	12.08	4.00	Operational	Complied
35	Chinnamanur	3.99	3.72	Operational	Complied
36	Periyakulam	5.47	4.00	Operational	Complied
37	Ramanathpuram	7.00	5.80	Operational	Complied
38	Rasipuram	6.96	3.30	Operational	Complied
39	Theni-Allinagaram	12.05	9.50	Operational	Complied
40	Sivagangai	4.92	2.00	Operational	Complied
41	Dharmapuri	4.86	3.50	Operational	Complied
42	Karur	15.00	6.50	Operational	Complied
43	Krishnagiri	12.34	8.00	Operational	Complied
44	Namakkal	5.00	5.50	Operational	Complied
45	Nagapattinam STP-1	9.63	4.10	Operational	Complied
46	Nagapattinam STP-2	2.69	1.00	Operational	Complied
47	Tiruvarur	6.92	4.10	Operational	Complied
48	Ariyalur	4.16	1.50	Operational	Complied
49	Pudukkottai	10.62	6.00	Operational	Complied
50	Perambalur	4.20	3.60	Operational	Complied
51	Udhagamandalam	5.00	4.00	Operational	Complied
52	Udumalaipet	7.81	4.00	Operational	Complied
53	Virudhunagar	7.65	3.80	Operational	Complied
54	Tiruchirappalli	58.00	58.00	Operational	Complied
55	Salem - Vellakuttai STP	13.00	8.00	Operational	Complied

56	Salem - Anaimedu STP	6.00	4.00	Operational	Complied
57	Salem - Mankuttai STP	35.00	4.00	Operational	Complied
58	Salem - Vandipettai STP	44.00	1.00	Operational	Complied
59	Tirunelveli	24.20	9.00	Operational	Complied
60	Erode	50.55	27.00	Operational	Complied
61	Mettur STP-1	0.82	0.50	Operational	Complied
62	Mettur STP-2	0.92	0.15	Operational	Complied
63	Mettur STP-3	5.45	2.20	Operational	Complied
64	Kumbakonam	17.00	12.50	Operational	Complied
65	Mayiladuthurai	5.85	5.85	Operational	Complied
66	Sathiyamanagalam	4.08	0.01	Under trial run	Complied
67	Tambaram	30.00	1.00	Under trial run	
68	Thiruchendur	3.90	1.40	Trial Run	Complied
69	Ulunderpettai	3.15	-	Trial Run	Compiled
	Total - 56 Nos.	**946.41**	**388.93**		
	DTP				
70	Mamallapuram TP	2.34	1.00	Operational	Complied
71	Orathanadu TP	2.30	1.30	Operational	Complied
72	Palanichettypatti TP	2.80	2.80	Operational	Complied
73	Thirumazisai TP	3.00	1.00	Operational	Complied
74	Velankanni TP	2.33	-	Operational	Trial Run
75	Manachanallur TP	6.41	-	Operational	Trial Run
76	S. kannanur TP				
	Total (7 Nos)	**19.18**	**6.10**		
Grand Total (76 Nos.)		**1710.59**	**1025**		

Details of existing FSTPS in Tamil Nadu

S.No.	Location	Existing STP Capacity MLD	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP

			MLD		
	CMA				
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	Paramakudi	0.04	0.04	Operation	Complied
11	Pattukottai	0.03	0.03	Operation	Complied
12	Melur	0.02	0.02	Operation	Complied
13	Ambasamuduram	0.03	0.03	Operation	Complied
14	Tiruchengode	0.04	0.04	Operation	Complied
	Total 14 FSTPs	**0.43**	**0.43**	Operation	Complied
	DTP				
15.	Karunguzhi	0.024	0.024	Operation	Complied
16.	Periyanaikanpalayam	0.03	0.03	Operation	Complied
17.	Chengam TP	0.020	-	Operation	Awaiting for trial run
18	Alangayam TP	0.015	-	Operation	Awaiting for trial run
	Total (4 Nos)	**0.089**	**0.054**		
	Grand Total (18 Nos)	**0.519**	**0.484**		

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	Sholinganallur	54 (36+18)	89.0	Mar 2022 18 MLD commissioning work under progress	

2	Thiruvottriyur	31	100	Trial run Improvement& additional works in progress	
3	Kodungaiyur Zone - I	120	60.67		Feb 2022
4	Kodungaiyur Zone - II	120	71.64		Feb 2022
5	Nesapakkam Zone - IV	50	52.04		Aug 2022
6	Perungudi Zone - V	60	48.25		Aug 2022 Water stagnation at site due to monsoon.
7	Nesapakkam TTUF	10	91.00		Mar 2022
8	Perungudi TTUF	10	67.75		Mar 2022
9	Chennai River Restoration Trust (CRRT),Chetpet MSTP	1	98.00		Commissioning activities under progress.
10	CRRT, Nungambakkam MSTP	1.2	67.40		
11	CRRT, Langs Garden MSTP	10	39.00		May 2022
12	CRRT, Todd Hunter Nagar MSTP	0.4*4=1.6	47.00		May 2022
13	CRRT, Kotturpuram MSTP	0.3*2=0.6	47.00		June 2022
Total (13 Nos.)		**469.4**			
CMA					
14	Ambur	16.71	Land handed over on 26.02.21, design work is in under progress by TWAD board & will be completed by Dec.22		
15	Coimbatore - Nanjudapuram	40.00	95	-	Jan -22
16	Coimbatore – Kuruchi & kuniyamuthur	30.53	86	-	Mar-23
17	Karaikudi	16.00	83	-	Feb -22
18	Nagercoil	17.66	90	-	Feb-22
19	Pollachi	11.25	97	4650	Feb-22
20	Rajapalayam	21.85	63	-	March-22
21	Rameshwaram	4.08	42	-	March-22
22	Sattur	4.65	93	-	Feb-22
23	Tiruppur	15.00	65		June-22
24	Tiruppur (Sarkarperipalayam)	36.00	74		Feb-22
25	Tiruppur (Chinnandipalayam)	20.00	75	-	Feb-22
26	Tuticorin	28.00	95	-	Jan-22
27	Vellore	50.00	68	-	Mar-22
28	Tindivanam	11.44	Preliminary work is under progress		Dec-23
29	Villupuram Added Area	4.56			Dec-23
30	Pammal & Anagaputhur	27.00			Mar-23
31	Tiruchirapalli-STP-1	30.00	53	-	Feb-22
32	Tiruchirapalli-STP-2	37.00	79	-	April -22
33	Mettupalayam	8.65	98	-	Feb-22
34	Ponneri	6.52	47	(upgraded as Municipality from Town Panchayat)	
Total (21 Nos)		**436.9**			
DTP					
35	Sriperumbudur TP	8.50	86	5028/6000	31.12.2021
36	Thiruporur TP	4.02	66	3936/4479	31.03.2022

37	Vallam TP	2.35	98	3520/3787	-
38	Perundurai TP	3.14	98	3533/5700	31.01.2022
39	MelachokanathapuramTP	2.00	98	4458/4500	31.01.2022
	Total (5 Nos)	**20.01**			
	Grand Total (39 Nos)	**926.31**			

Details of under construction FSTPs in Tamil Nadu

Sl.No.	Location	Capacity of the plant (MLD)	Physical Progress in %	Completion Timeline
	CMA			
1	Aruppukottai	0.04	95	Dec-21
2	Mannargudi	0.03	98	Dec-21
3	Sankarankoil	0.03	92	Jan-22
4	Tenkasi	0.04	85	Jan-22
5	Koothanallur	0.02	72	Jan-22
6	Kulithalai	0.02	85	Jan-22
7	Padmanabhapuram	0.02	70	Jan-22
8	Virudhachalam	0.04	68	Jan-22
9	Sirkali	0.02	75	Jul-22
10	Srivilliputhur	0.03	80	Jan-22
11	Vedaranyam	0.02	60	Mar -22
12	Gudiyatham	0.03	70	Jan-22
13	Cumbum	0.04	75	Jan-22
14	Aranthangi	0.02	60	Mar-22
15	Vandavasi	0.02	80	Jan-22
16	Thiruthuraipoondi	0.01	75	Jan-22
17	Puliangudi	0.04	42	Mar-22
18	Chengalpattu	0.02	41	Mar-22
19	Attur	0.04	45	Mar-22
20	Walajapet	0.03	41	Mar-22
21	Sivakasi	0.04	26	-
22	Keelakarai	0.02	40	Mar-22
23	Gudalur	0.02	41	Mar-22
24	Coonoor	0.01	18	Mar-22
25	Nellikuppam	0.02	3	-
26	Manapparai	0.02	0	-
27	Panruti	0.03	0	-
28	Colachel	0.04	10	-
DTP	**Total**	**0.76**		
29	Mudukulathur TP	0.015	95	15.12.2021
30	Jalakandapuram TP	0.015	98	31.12.2021
31	Pennagaram TP	0.015	80	31.12.2021
32	Kaveripattinam TP	0.015	82	31.12.2021
34	Kurumbalur TP	0.010	70	31.12.2021
35	Pennadam TP	0.010	80	31.12.2021
	Total (5 Nos)	**0.08**		
	Grand Total (35 Nos)	**0.84**		

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)	
	CMA- PRS (2 Nos.)			
1	Trichirapalli	7.50	Tenders Received & Works are to be commenced	
2	Tirunelveli	10.00		
3	Musiri TP		upgraded as Municipality from Town Panchayat- DPR Stage	
4	Punjai Pugalur TP			
	Total (4 Nos.)	**17.5**		
	DTP			
3	Mangadu	72.00	DPR stage-Comprehensive UGSS in Poonamallee cluster A with Mangadu Town Panchayat and 12 Village Town Panchayat	
4	Chitlapakkam		DPR prepared under TNUISFL for Sembakkam cluster basis with 13 local bodies (Fund assistance from Project Development Grant Fund)	
5	Madampakkam			
6	Peerkankaranai		DPR has to be prepared through TNUISFL on cluster basis	
7	Perungalathur			
8	Thiruneermalai			
PRS			**Status of Project**	Remarks
9	Sirugamani TP		DPR Stage	
10	Mohanur TP		DPR Stage	
11	Velur TP		DPR Stage	
12	Bhavani sagar TP		DPR Stage	
13	Sirumugai TP		DPR Stage	
14	Madathukulam TP		DPR Stage	
15	Omalur TP		DPR Stage	
16	Poallampatty TP		DPR Stage	DPRs are under preparation by Tamil Nadu Water Investment Company (TWIC).
17	PethanaickenpalayaTP		DPR Stage	
18	Yethapur TP		DPR Stage	
19	Belur TP		DPR Stage	
20	Srivaikundam TP		DPR Stage	
21	Authoor TP		DPR Stage	
22	Eral TP		DPR Stage	
23	Alwarthirunagari TP		DPR Stage	
24	Then Thiruperai TP		DPR Stage	
25	Arumuganeri TP		DPR Stage	
26	Mukkudal TP		DPR Stage	
27	Gopalasamudram TP		DPR Stage	
28	Kallidaikurichi TP		DPR Stage	
29	Cheranmahadevi TP		DPR Stage	
30	Veeravanallur TP		DPR Stage	
31	Patthamadai TP		DPR Stage	
32	Mela Seval TP		DPR Stage	
33	Kuthalam TP		DPR Stage	DPRs are under preparation by WAPCOS/ PWD.
34	Thirukattupalli TP		DPR Stage	
35	Thiruvaiyaru TP		DPR Stage	
	Total (33 Nos)			
	Grand Total 35 Nos			

Details of Proposed FSTPs in Tamil Nadu

Sl.No.	Location	Capacity of the plant (MLD)	Physical Progress in %	Completion Timeline
	CMA			
1	Vaniyambadi	0.03	-	Sep-22
2	Usilampatti	0.02	-	Administrative Sanction
3	Jayamkondan	0.02	-	Tender completed Work orders to be issued
4	Kuzhithurai	0.04	-	
	Total (4)	**0.11**		

IV. Details of Industrial Pollution-TNPCB

Sl. No.	Details of Industries	State	PRS
1.	No. of industries in the State:	46,401	7,381
2.	No. of water polluting industries in the State:	11,445	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:	11,445	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:	11,445 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. (87.35 MLD). 35 CETPs in operation:1 No is closed.	**Proposed** – 10 Nos., Capacity 41 MLD. **Note:** No member unit is in operation without ZLD system.
		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 of Existing CETPs
1	Trichy	1	7	201.4	Operation	Complied

2	Dindigul	1	49	1517	Operation	Complied
3	Perundurai	1	14	1000	Operation	Complied
4	Ambur	1	49	1150	Operation	Complied
5	Ambur	1	17	330	Operation	Complied
6	Peranambut	1	36	600	Operation	Complied
7	Vanitech	1	110	2000	Operation	Complied
8	Ranipet	1	82	3600	Operation	Complied
9	Ranipet	1	88	1875	Operation	Complied
10	Ranipet	1	20	700	Operation	Complied
11	Melvisharam	1	36	600	Operation	Complied
12	Madhavaram	1	14	400	Operation	Complied
13	Pallavaram	1	144	3000	Being complied	Complied
14	Sivagangai	1	48	49.6	Operation	Complied
15	Ambattur	1	211	200	Being complied	Complied
16	Tiruppur	1	75	7000	Operation	Complied
17	Tiruppur	1	6	180	Operation	Complied
18	Tiruppur	1	29	3555	Operation	Complied
19	Tiruppur	1	12	3520	Operation	Complied
20	Tiruppur	1	18	2750	Operation	Complied
21	Tiruppur	1	60	4785	Operation	Complied
22	Tiruppur	1	28	3748	Operation	Complied
23	Tiruppur	1	69	10758	Operation	Complied
24	Tiruppur	1	4	2250	Operation	Complied
25	Tiruppur	1	17	4950	Operation	Complied
26	Tiruppur	1	23	4500	Operation	Complied
27	Tiruppur	1	12	2700	Operation	Complied
28	Tiruppur	1	8	165	Operation	Complied
29	Tiruppur	1	15	2750	Operation	Complied
30	Tiruppur	1	15	2485	Operation	Complied
31	Tiruppur	1	19	4500	Operation	Complied
32	Tiruppur	1	25	3150	Operation	Complied
33	Tiruppur	1	9	1350	Operation	Complied
34	Perundurai	1	14	2681	Operation	Complied
35	Kanchipuram	1	62	1500	Under closure	-
36	Kodaikanal	1	40	850	Operation	Complied
Total		**36**	**1497**	**87350**		

Note:

The CETP, **Kanchipuram** has been closed by the TNPCB and the power supply was disconnected on 01.07.2019, as the CETPs have not implemented ZLD. The member units are not in operation.

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
2.	Perundurai	Kadayampatti CETP Private Limited, Bhavani,Perundurai Taluk, Erode District	6.25	

Sl. No.	Location	Name of CETPs	CETP Capacity (MLD)	Status
3.	Perundurai	Kadayampatti Common Reject Management Systems Private Limited (CRMS), Perundurai Taluk, Erode District	1.75	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. No member unit is in operation without ZLD system; Other member units are proposed industries only ie. Green sites only.
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. Suriyampalayam CETP Private Limited, Erode	4.2	
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	
TOTAL - 10 CETPs			**41**	

V.Solid Waste Management:

No	Solid Waste Management	State	PRS
1.	Total number of Urban Local Bodies	664	48
2.	Current Municipal Solid Waste Generation (TPD)	ULB- 14,292 **Note**: The MSW of RLB is furnished separately in the dossier below.	ULB- 1421.73
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	3730 (CMA-1964+DTP-1324 +GCC-442) 9456 (CMA-5644+DTP-1819+GCC-1993) 7459 (CMA-4840 +DTP-1819+GCC-800)	462 991 953
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. of 400 TPD (each) Proposed – 3 Nos. at Coimbatore, Trichy and Madurai –Tender Stages.	Nil
6.	Total No. of wards (ULBs) No. of wards having door to door collection service, No. of wards practicing segregation at source	12,820 12,401 11,384	1,134 1,112 1,030
7	Details of MSW treatment facilities proposed and under construction (No., capacity, and technology)	**Proposed-**10 Nos. (CMA-10). Capacity :36.50 TPD (CMA-36.5)	1 Nos. 14 TPD
		Under Construction- *122 Nos. (CMA-109 + DTP-4+GCC-9), Capacity* 1581 TPD (CMA-920+GCC-645, DTP-16) 7 incinerator plants of 35 TPD & 9 pyrolysis plants of 0.9 TPD are completed and are in trial run.	15 Nos, 298 TPD
		(Technology: Windrow composting, Vermi composing, Bio-gas production, Incineration, Pyrolysis, Micro compositing, Organic Compositing, Resource Recovery)	
	Note* As the No. of Existing MSW facilities and capacity are increased the Under Construction facilities are reduced.		
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 **1,21,79,935 Cum** Total quantity of Legacy Waste biomined upto the month of December 2021 is **62,71,315 Cum** except in 42 ULBs, 100% biomining (**17,75,913 Cum**) has been completed.	

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	67 drains (as shown in item X) fall into water bodies. But, no MSWs are discharged into the water bodies.

Rural Development and Panchayat Raj (RD & PR)

No.	Solid Waste Management	State	PRS
1.	Current Municipal Solid Waste Generation TPD	1965	8.3
2.	Number of Village Panchayats	12525	31
3.	Details of MSW treatment facilities proposed.	321 Nos	1

Status of ULB wise Management of Solid Waste-CMA, DTP & 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
CMA	6526	5644	Windrow/Vermi composting, Biogas generation	4840	109 Nos. of MSW treatment facilities are under constrn. & 10 Nos. of facilities are proposed.
DTP	2100	1819	Incineration, Pyrolysis, biocomposting,	1819	3 Incinerators & 1 Pyrolysis are under progress for processing non-recyclable dry waste on cluster basis.
GCC	5666	800	Windrow/Vermi composting, Bio-gas generation	800	9 Nos. of MSW treatment facilities are under constrn.
Total	**14,292**	**8263**		**7459**	

VI. Bio-medical Waste Management (BWM):

S.N	BWM	State	PRS
1.	Total Bio-medical generation:	86.90 T/D	9.611 T/D
2.	No. of Hospitals and Health Care Facilities:	26,827	6095

3.	Status of Treatment Facility/ CBMWTF:	Total -12 Nos. 10- Facilities under operation 2-Facilities - Issued Closure order by TNPCB for non-compliance. 3-Common facilities (CBMWTFs) are under establishment in Hosur, Gummidipoondi, & Tiruppur .	**1.** M/s. Medicare Enviro Systems, Thanjavur is in operation covering the districts of Thanjavur, Thiruvarur, Trichy, Nagapattinam, Pudukottai, Perambalur, Ariyalur & Sivangangai. **2.**M/s.Ramky Energy and Environment Ltd, Salem is in operation covering the districts of Salem, Namakkal, Erode, Karur Dharmapuri & krishnagiri.

VII. Hazardous Waste Management (HWM)

S.No	Hazardous Waste Management	Tamil Nadu State
1.	Total Hazardous Waste generation	Total : 9.64810 lakhs T/A Recylable : 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	3,961 units
3.	Treatment Capacity of all TSDFs	**2 Nos. of M/s Tamil Nadu Waste Management Limited (TNWML) Facility :** **a.TSDF Gummidipoondi :** 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.TSDF Viruthunagar :** 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)	865	109.9
Treatment/ Measures adopted for reduction or management of plastic	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	

waste	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.

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:

Sl.No.	Name of the river	Name of the ULBs	No. of drains joining into major water bodies	Remarks
1	Cauvery	Komarapalayam	5	Interception & Diversion (I&D) Work. DPR is under preparation
2	Cauvery	Pallipalayam	7	
3	Cauvery	Kulithalai	3	
4	Cauvery	Bhavani	6	
5	Tamirabarani	Ambasamudram	6	
6	Tamirabarani	Vickaramasingapuram	12	
7	Vasista	Attur	3	
8	Vasista	Narasingapuram	3	
9	Sarabanga	Idappadi	22	
Total			**67**	

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.

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 December 2021

Sl.No.	Name of the River	No of Monitoring Locations	BOD mg/l
1	Sarabanga	1	<2*
2	Thirumanimutharu	1	<2*
3	Vasista	1	<2*
4	Cauvery	19	<2-4.6
5	Bhavani	7	<2-2.5
6	Thamirabarani	12	2.2-2.9

Note* the BOD value complied the bathing standards as there was heavy rainfall during the month of November 2021 & December 2021

. **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 **399** mg/l **to 1885** mg/l. Danishpet is having TDS of good quality whereas the rest of the places having TDS value in the range of moderate quality.
Thirumanimuth-aru	The SG&SWRDC provided monitoring wells in Salem, Attayampatti and Palapatti areas. The TDS in this stretch vary between 500 mg/l to 2000 mg/l.
Vasista	The SG&SWRDC is having monitoring wells in Papanaickenpatti, Yethapur, Athur and Thalaivasal. The TDS value is between 336 mg/l to 1029 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 523 mg/l to 2096 mg/l, at Salem the water quality varies between 412 to 2845 mg/l, at Namakkal the TDS exceed even 6000 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 varies between 5000 to 6000 mg/l
Bhavani	The general distribution of ground water quality varies between Good to moderate level. Especially Nilgiris is having good quality water.
Thamirabarani	The collected water quality data of Cheranmadevi, Thiruvidaimaruthur, 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
Thirumanimutharu	
Vasista	

Cauvery	operating firms have been sealed and closed.
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.
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 projectas per GO Ms No: 140 PW (WR 1) Dept Dt: 21.06.2017 for an amount of Rs.107.09 crores. Kudimaramath woks 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.

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	19	5- Check dams 23 Recharge shafts	--
Thamirabarani	7	4	Total - 230 works. Barrages **3** Nos.–Rs.230 Crores. Artificial Recharge well **221** Nos, Recharge shaft **4 N**os. -Rs. 88.496 Crores & Check dams **2 Nos** at a cost of 76 Crores).
Total	**97**	**44**	**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 Thirumanimutharu	Drone Survey completed by WAPCOS in January 2021. The draft DPR at a cost of Rs.2.0 Cr prepared by WAPCOS for identification of flood plain zones and area for afforestation to maintain Bio Diversity has been submitted and is under the scrutiny of PWD. Encroachment if any is identified in the survey will be evicted and other management works will be completed by March 2022 after rehabilitation and resettlement.
Vasista	No Flood plains zones/encroachment have been identified.
Cauvery	Drone Survey completed by WAPCOS in January 2021. The draft DPR at a cost of Rs.20.0 Cr prepared by WAPCOS for identification of flood plain zones and area for afforestation to maintain Bio Diversity has been submitted and is under the scrutiny of PWD. Encroachment if any is identified in the survey will be evicted and other management works will be completed by March 2022 after rehabilitation and resettlement.
Bhavani	a.Drone Survey completed by WAPCOS in January 2021. The draft DPR at a cost of Rs. 2.0 Cr prepared by WAPCOS for identification of flood plain zones and area for afforestation to maintain Bio Diversity has been submitted and is under the scrutiny of PWD. b.55 Nos of encroachments are to be removed 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, 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 of flood water.

c. In River Banks of the Thamirabarani, the following encroachments were identified by Public works department. Eviction notices issued by Govt

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 Nadanthai Vaazhi Cauvery for which a draft DPR has been prepared by M/s. WAPCOS, submitted and is under the scrutiny of PWD. E flow will be maintained in this river after completion sewage treatment plants by March 2022. 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 Nadanthai Vaazhi Cauvery for which a draft DPR has been prepared by M/s. WAPCOS, submitted and is under the scrutiny of PWD. E flow will be maintained in this river after completion of sewage treatment plants by March 2022, 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 12th to January 28th based on availability of water every year. It is opened for drinking purpose in the remaining days. 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 December 2021 an E Flow of 0.971 TMC was maintained.

Bhavani	An E flow of 1,04,907 cusecs (including Irrigation purpose) was maintained in the river Bhavani during the Month of December 2021.
Thamirabarani	An average of 1316.89 cusecs of water is released into the river in the month of December 2021 to ensure minimum environmental flow.

XIX. Plantation activities along the rivers-PWD

Name of the River	Plantation activities along the Rivers
Sarabanga	DPR is prepared and under scrutiny by PWD for planting 32,400 Nos. of tree saplings.
Thirumanimutharu	DPR is prepared and under scrutiny by PWD for planting 42,000 Nos. of tree saplings.
Vasista	There is no proposal at present.
Cauvery	DPR is prepared and under scrutiny by PWD for planting 1,44,500 Nos. of tree saplings.
Bhavani	DPR is prepared and under scrutiny by PWD for planting 86,500 Nos. of tree saplings.
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 Thirumanimutharu	Drone Survey has been completed by M/s.WAPCOS in January 2021. A draft DPR prepared by M/s.WAPCOS has been submitted and is under scrutiny of PWD. This work will be completed in March 2022.
Vasista	There is no proposal at present.
Cauvery Bhavani	Drone Survey has been completed by M/s.WAPCOS in January 2021. A draft DPR prepared by M/s.WAPCOS has been submitted and is under scrutiny of PWD. This work will be completed in March 2022.
Thamirabarani	At present there is no proposal on biodiversity parks on the encroached River stretches and investigation works are being taken to implement it. **Rejuvenation of River Thamirabarani** A DPR for rejuvenation of River Thamirabarani and its tributaries have been prepared for Rs.1024 Crores by the environment 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.

XXI. Reuse of Treated Water - CMA

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	2.00	M/s KVK Power for cooling purpose
2	Dindugul	5.00	To maintain the TDS level of Tanners for Agro- forestry.
3	Tirunelveli	24.00	Nanguneri Special Economic Zone (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
Total		**80.5**	

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

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

As per G.O.MS No.64 Environment and Forests (EC.2) Department dated 03.10.2020, preparation of action plan for the coastal and marine pollution by the Department of Environment, Government of Tamil Nadu, is under progress by collecting details from the 14 districts of Tamil Nadu.

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.

Gist of Report on the progress made on the Polluted River Stretches Tamil Nadu State
Month: December 2021

Sl.. No.	Details of works	Action taken
1	**Polluted River Stretches identified**	Priority -I River Cauvery, Sarabanga river, Vasista river and Thirumanimutharu river; priority - IV Bhavani river and Priority -V Tamiraparani river.
2	**Sewage Generation**	**3786.16 MLD** in Tamil Nadu.
3.a.	**Existing STPs**	There are **76 STPs** in operation with treatment capacity of **1710.59 MLD** and in **18 FSTPs 0.519 MLD** is treated.
b.	**Under construction STPs**	**39 STPs (962.31 MLD capacity)** and **34 FSTPs (0.84 MLD capacity)** are under construction and they are at various stages of implementation. Incremental increase of 0.**2 to 25.5%** has been achieved during December 2021 in the under construction projects of STPs and the details are furnished as **annexure-1.**
c.	**Proposed STPs**:	**37 STPs** are proposed to fill the gap of treatment of sewage.
4 a.	**Existing MSW treatment** :	**14,292 TPD** of solid waste is generated in the State with treatment capacity of **9456 TPD** furnished in **annexure-2**.
b	**Under construction MSW Facilities**:	**122 MSW** facilities are being constructed to a capacity of **1581 TPD**. As the capacity of existing MSW facilities increases, the capacity of under construction facilities is reduced.
c.	**Proposed MSW Facilities**	**10 Nos**. of facilities are proposed to a capacity of **36.50 TPD**.
d	**Bio -mining**	Total quantity of Legacy waste generated- **1,21,79,935 Cum** Total quantity of Legacy Waste biomined upto the month of December 2021-**62,71,315 Cum** except in 42 ULBs, 100% biomining (**17,75,913 Cum**) has been completed

<table>
<tr><td>5 a.</td><td>Existing CETPs</td><td>There are 36 CETPs existing in the State with a capacity of 87350 KLD. Out of the 36 CETPs, 35 CETPs are in operation, 1 CETP has been closed for non-compliance of Board orders.</td></tr>
<tr><td>b.</td><td>Proposed CETPs :</td><td>Along the polluted river stretches, 10 CETPs of 41 MLD are proposed for dyeing units and they are under proposal stage. The DPRs have been forwarded to the Ministry of Textiles, Govt. of India for 50% funding during 2017-2021 and the fund is awaited. Out of 10 CETPs, 8 Nos are proposed and no member units are in operation and 2 CETPs are for common reject management systems.</td></tr>
<tr><td>6.</td><td>Biomedical waste management</td><td>26,827 health care units in the State generate 86.90 TPD of biomedical wastes, for which 10 bio-medical waste treatment facilities are in operation.</td></tr>
<tr><td>7</td><td>Hazardous Waste Management</td><td>Total haz. Waste generation is 9.64810 lakhs ton per annum. Out of which re-cyclable is 1.2081 lakhs ton/anum, utilizable is 7.30 lakhs ton/annum, land fillable is 0.9 lakhs ton/annum and incinerable is 0.24 lakhs tons/annum.</td></tr>
<tr><td>8</td><td>Coastal Management Plan:</td><td>As per the directions in the NGT order dated 22nd September 2020, 46 Nos. of stretches have been identified in 14 districts as polluted zones for which action plan is under preparation and it will be furnished by the Director of Environment, Govt. of Tamil Nadu early as per the GO MS No.64 Environment and Forests Department, Govt. of Tamil Nadu dated:03.10.2020.</td></tr>
<tr><td>9</td><td colspan="2">Water Quality in Polluted River Stretches:- December 2021
<table>
<tr><th>Sl. No.</th><th>Name of the River</th><th>No. of Monitoring Locations</th><th>BOD mg/l</th><th>Standards</th></tr>
<tr><td>1</td><td>Sarabanga</td><td>1</td><td><2*</td><td rowspan="6">BOD < 3 mg/l</td></tr>
<tr><td>2</td><td>Thirumanimutharu</td><td>1</td><td><2*</td></tr>
<tr><td>3</td><td>Vasista</td><td>1</td><td><2*</td></tr>
<tr><td>4</td><td>Cauvery</td><td>19</td><td><2-4.6</td></tr>
<tr><td>5</td><td>Bhavani</td><td>7</td><td><2-2.5</td></tr>
<tr><td>6</td><td>Thamirabarani</td><td>12</td><td>2.2-2.9</td></tr>
<tr><td colspan="5">Note* The BOD value complied bathing standards as there is heavy rainfall during the month of November & December 2021.</td></tr>
</table></td></tr>
</table>

10	**Reuse of treated water** **80.50 MLD** of treated waste water is 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: 97** existing RWH structures along the PRS are provided; **44** Nos. are under progress and **283 Nos.** of recharging wells and check dams are proposed (5 Nos RWH structures work have been completed). 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. f. **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 %
			Nov 21	Dec 21	
	CMWSSB				
	Kodungaiyur Zone - I	120	60.55	60.67	**0.198**
	Kodungaiyur Zone - II	120	70.54	71.64	**1.54**
	Nesapakkam Zone - IV	50	49.57	52.04	**4.75**
	Perungudi Zone - V	60	48.24	48.25	**0.02**
	Nesapakkam TTUF	10	90.0	91.0	**1.09**
	Perungudi TTUF	10	65.59	67.75	**3.19**
	CRRT, Nungambakkam MSTP	1.2	67.0	67.40	**0.59**
	CRRT, Langs Garden MSTP	10	38.0	39.0	**2.56**
	CRRT, Todd Hunter Nagar MSTP	0.4*4=1.6	46.0	47.0	**2.13**
	CRRT, Kottupuram MSTP	0.3*2=0.6	35.0	47.0	**25.53**
	DTP				
	Sriperumbudur TP	8.50	82	86.0	**4.65**
	Thiruporur TP	4.02	65.67	66.0	**0.5**
	Perundurai TP	3.14	97	98	**1.02**
	Melachokanathapuram TP	2.0	97	98	**1.02**

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

Sl. No	Details	July21	Aug.21	Sept.21	Oct.21	Nov.21	Dec.21	Incremental increase (%) (Nov to Dec)
1	MSW generation (TPD)	13,753	13,820	14,044	14,258	14,615	14,292	-
2	MSW treatment capacity (TPD)	9651.23	9693.23	9713.23	9732	9746	9456	-
3	MSW utilization (TPD)	7170	7220	7402	7443	7389	7459	**0.94**

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Directorate of Municipal Administration

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

Overall status of the CMA:

I. Total Population : 1,67,05,001

II. Estimated Sewage Generation (MLD) : 1523.98 (State)

Estimated Sewage Generation (MLD): 375.61 (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)	**53 Nos & 939.36**	**13Nos & 264.87**
2	Capacity Utilization of existing STPs	**387.53**	**132.21**
3	MLD of sewage being treated through Alternate technology	**Nil**	
4	Gap in Treatment Capacity in MLD	**584.62**	**110.74**
5	No. of Operational STPs	**53 nos**	**13 nos**
6	No. of Complying STPs	**53 nos**	**13 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	70.00	35.00	Operational	Comply
		60.00	5.00	Operational	Comply
2	Vellore	10.28	8.00	Operational	Comply
3	Dindigul	13.65	3.00	Operational	Comply
4	Avadi	36.00	1.00	Operational	Comply
	Avadi	4.00	2.50	Operational	Comply
5	Madurai	125.00	24.00	Operational	Comply

5	Madurai	45.70	15.00	Operational	Comply
6	Thanjavur	28.05	14.15	Operational	Comply
7	Tiruppur	15.00	8.50	Operational	Comply
8	Cuddalore	12.25	6.50	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	3.65	Operational	Comply
14	Thiruvannamalai	8.70	4.50	Operational	Comply
15	Viluppuram – (Kakuppam)	9.00	7.00	Operational	Comply
	Viluppuram (Erumanthangal)	3.50	1.80	Operational	Comply
16	Arakkonam	11.04	2.00	Operational	Comply
17	Thirupathur	11.43	2.40	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	5.80	Operational	Comply
22	Rasipuram	6.96	3.30	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	6.50	Operational	Comply
27	Krishnagiri	12.34	8.00	Operational	Comply
28	Namakkal	5.00	5.50	Operational	Comply
	Nagapattinam STP-1	9.63	4.10	Operational	Comply
29	Nagapattinam STP-2	2.69	1.00	Operational	Comply
30	Tiruvarur	6.92	4.10	Operational	Comply
31	Ariyalur	4.16	1.50	Operational	Comply
32	Pudukkottai	10.62	6.00	Operational	Comply

33	Perambalur	4.20	3.60	Operational	Comply
34	Udhagamandalam	5.00	4.00	Operational	Comply
35	Udumalaipet	7.81	4.00	Operational	Comply
36	Virudhunagar	7.65	3.80	Operational	Comply
PRS (12 Nos)					
37	Tiruchirappalli	58.00	58.00	Operational	Comply
38	Salem - Vellakuttai STP	13.00	8.00	Operational	Comply
	Salem - Anaimedu STP	6.00	4.00	Operational	Comply
	Salem - Mankuttai STP	35.00	4.00	Operational	Comply
	Salem - Vandipattai STP	44.00	1.00	Operational	Comply
39	Tirunelveli	24.20	9.00	Operational	Comply
40	Erode	50.55	27.00	Operational	Comply
41	Mettur STP-1	0.82	0.50	Operational	Comply
	Mettur STP-2	0.92	0.15	Operational	Comply
	Mettur STP-3	5.45	2.20	Operational	Comply
42	Kumbakonam	17.00	12.50	Operational	Comply
43	Mayiladuthurai	5.85	5.85	Operational	Comply
44	Sathiyamanagalam	4.08	0.01	Under trial run	Comply
45	Tambaram	30.00	1.00	Under trial run	Comply
Total	**53 nos**	**939.36**	**387.53**		

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	-	-	Land handed over on 26.02.21 & now design work is in progress & it will be completed on Dec'22
2	Coimbatore - Nanjudapuram	40.00	95%	-	Jan-22

S.No	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
	Coimbatore – Kuruchi & kuniyamuthur	30.53	86%	-	March-23
3	Karaikudi	16.00	83%	-	Feb-22
4	Nagercoil	17.66	90%	-	Feb-22
5	Pollachi	11.25	97%	-	Feb-22
6	Rajapalayam	21.85	63%	-	March-22
7	Rameshwaram	4.08	42%	-	March-22
8	Sattur	4.65	93%	-	Feb-22
9	Tiruppur	15.00	65%	-	June-22
	Tiruppur (Sarkarperiyapalayam)	36.00	74%		Feb-22
	Tiruppur (Chinnandipalayam)	20.00	75%		Feb-22
10	Tuticorin	28.00	95%	-	Jan-22
11	Vellore	50.00	68%	-	March-22
12	Tindivanam	11.44	Preliminary work under progress		Dec-23
13	Villupuram Added Area	4.56			Dec-23
14	Pammal & Anagaputhur	27.00			March-23
PRS (4 Nos)					
15	**Trichirapalli-STP1**	**30.00**	**52%**	**-**	**Feb- 22**
	Trichirapalli-STP2	**37.00**	**79%**	**-**	**April-22**
16	**Mettupalayam**	**8.65**	**98%**	**-**	**Feb-22**
Total (20 nos)		**466.38**			

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
PRS(2Nos)				
1	Trichirapalli	7.50	Retender stage	
2	Tirunelveli	10.00	Retender stage	

In addition to above, 46 no. of FSTPs are taken up for implementation

(i) Completed - 15 Nos

(ii) Under construction – 24 Nos

(iii) Work to be commenced – 1 No

(iv) Workorder stage -2 Nos

(v) To be started – 2 Nos

(vi) Tender stage -1 No

(vii) AS Stage - 1 Nos.

In which 6 no of FSTPs falls under polluted river stretches (Cauvery- 1no, Vasista -1 no, Sarabanga – 1 no & Thamirabarani – 2 nos.)

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

SI. No	Name of the River	Name of the ULB	No. of location joining into major canal/ river	Remarks
1	Cauvery	Komarapalayam	5	I&D Work DPR under preparation
2	Cauvery	Pallipalayam	7	
3	Cauvery	Kulithalai	3	
4	Cauvery	Bhavani	6	
5	Tamirabarani	Ambasamudram	6	
6	Tamirabarani	Vickaramasingapuram	12	I&D Work DPR under preparation
7	Vassista	Attur	3	
8	Vassista	Narasingapuram	3	
9	Sarabanga	Idappadi	22	

XXI. Reuse of Treated Water:

The policy for promotion of use of Treated Waste Water is prepared with a vision to maximise 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

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: **135 ULBs & Population - 1,67,05,001**
- Current Municipal Solid Waste Generation: **6526 TPD & 1296 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) : **Nil**
- 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 December 2021 -Department CMA

V	Solid Waste Management:						
		Tamil Nadu State			**Polluted River Stretches**		
1	Total number of Urban Local Bodies and their Population	135 ULBs / 16705001			19 ULBs /		
2	Current Municipal Solid Waste Generation TPD	6526 TPD			1296 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	39	115	95	4	15	14
b.	Vermi Compost	11	95	80	1	2	2
c.	Decentralized pit composting	731	2812	2724	172	637	612
d.	Biomethanation	47	189	140	13	54	48
e.	MRF/RRC	229	981	981	28	112	112
f.	others	907	411	350	134	61	56
g.	Waste to Energy						
h.	Dry waste disposed to local vendors and Cement industries		1041	470			
	Total	**1964**	**5644**	**4840**	**352**	**881**	**844**
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. &**	**Proposed (No. & Capacity)**	**Under construction (No. & Capacity)**
		-	Proposed in Coimbatore, Trichy and Madurai - Tender stage	-	-	Proposed in Trichy Tender stage	-

6	Total no. of wards	4332	669
	Total no. of wards having door to door collection service	4245	661
	Total no. of wards practicing segregation at source	3725	616
7a.	Details of MSW treatment facilities proposed (no.)	10 Nos	1 Nos
	Details of MSW treatment facilities proposed (capacity, TPD)	36.5 TPD	14 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.)	109 Nos	15 Nos
	Details of MSW treatment facilities under construction (capacity, TPD)	920 TPD	298 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
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 1187 MT of single use plastics had been seized and a penalty of Rs.5.89 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 177.43 MT of single use plastics had been seized and a penalty of Rs.1.593 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**		

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 December 2021

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)	**745**	
2	Capacity Utilization of existing STPs(in ML)	**19529.21 (MLD – 629.97 Avg)**	
3	MLD of sewage being treated through Alternate technology	**-**	
4	Gap in Treatment Capacity in MLD	**Nil**	
5	No. of Operational STPs	**13**	
6	No. of Complying STPs	**13**	
7	No. of Non-complying STPs	**Nil**	

Details of each existing STP in the State& PRS – December 2021

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
1	Nesapakkam STP Zone - IV	23	12.30	Operational	Complied Parameters Range pH – 6.5 to 8.5 BOD - < 20 mg/l COD – ≤ 250 mg/l TSS - < 30 mg/l Faecal Coliform – 10000MPN/100 ml
2	Koyambedu STP Zone - III	34	30.67	Operational	
3	Kodungaiyur STP Zone II	80	68.99	Operational	
4	Kodungaiyur STP Zone I	80	70.00	Operational	
5	Perungudi STP Zone - V	12	10.38	Operational	
6	Koyambedu STP Zone – III	60	19.38	Operational	

7	Kodungaiyur STP Zone I& II	110	90.49	Operational	
8	Nesapakkam STP Zone - IV	40	33.25	Operational	
9	Perungudi STP Zone - V	54	59.49*	Operational	
10	Perungudi STP Zone – V	60	63.13*	Operational	
11	Nesapakkam STP Zone - IV	54	51.12	Operational	
12	Koyambedu STP Zone – III	120	110.78	Operational	
13	Sholinganallur STP(phase I)	18	09.95	Operational	
Total		**745**	**629.97**		

- Due to rainfall the flow increased.

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	89.00		Mar 2022 (36+18) 18MLD trial runwork under progress
2	Thiruvottriyur STP	31	100.00		Trial Run, Improvement and additional works in progress
3	Kodungaiyur STP Zone - I	120	60.67		Feb 2022
4	Kodungaiyur STP Zone - II	120	71.64		Feb 2022
5	Nesapakkam STP Zone - IV	50	52.04		Aug 2022
6	Perungudi STP Zone - V	60	48.25		Aug 2022 Water stagnation at site due to monsoon
7	Nesapakkam TTUF	10	91.00		Mar 2022
8	Perungudi TTUF	10	67.75		Mar 2022
9	CRRT - Chetpet MSTP	1	98.00		Nov 2021 Commissioning activities under progress
10	CRRT-Nungambakkam	1.2	67.40		Dec 2021

	MSTP				
11	CRRT- Langs Garden MSTP	10	39.00		May 2022
12	CRRT - Todd Hunter Nagar MSTP	0.4*4=1.6	47.00		May 2022
13	CRRT - Kotturpuram MSTP	0.3*2=0.6	47.00		June 2022
Total		**469.40**			

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 eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), biomethanation, 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. <u>Hazardous Waste Management:</u>

- 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. <u>Plastic Waste Management:</u>

- 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 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

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 December 2021 - Prepared By Greater Chennai Corporation

V	**Solid Waste Management:**				
		Tamil Nadu State			
1	Total number of Urban Local Bodies and their Population	**62.5 LAKHS**			
2	Current Municipal Solid Waste Generation TPD	5666			
3	**Existing MSW processing facilities**	**Total No.**	**Installed Capacity (TPD)**	**Utilization Capacity (TPD)**	**Remarks**
a.	Windrow Compost	2	100	48	
b.	Vermi Compost	0	0	0	
c.	Decentralized pit composting	206	581	342	
d.	Biomethanation	6	21	6	
e.	MRF/RRC	186	468	206	Processing quantity decreased due to rain.
f.	others: (Breakeup) 1.Incinarators - 1 No (10 MTD) 2.Gardengarbage & Tender coconut shell processing plant - 5 locations (400 MTD) 3.Offtake of baled plastic to cement factories (300 MTD)	7	710	164	Incinerator- 2 nos not functioning due to TNPCB CTE/CTO not obtained (5.50+52.73+85.04+20.67 =164)
g.	Waste to Energy 1. Bio-gas	34	13	6	
	2. Bio-CNG	1	100	28	
	Total	442	1993	800.00	
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 periodicaly reviewed			
4a	No. and capacity of C&D waste processing plants in TPD	2 no (400 each)	800	481	
6	Total no. of wards	200			
	Total no. of wards having door to door collection service	200			

	Total no. of wards practicing segregation at source	200	
7a.	Details of MSW treatment facilities proposed (no.)	-	-
	Details of MSW treatment facilities proposed (capacity, TPD)	-	
	Details of MSW treatment facilities proposed (technology)	-	
7b.	Details of MSW treatment facilities under construction (no.)	9	Bio-CNG 6nos -100 TPD each Pyrolysis 2nos -20TPD each Incinerator 1 no - 5TPD
	Details of MSW treatment facilities under construction (capacity, TPD)	645	

	Details of MSW treatment facilities under construction (technology)	Incinerator, Bio CNG, and Pyrolysis Plant	
8	No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.	494.16	
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	272 (Storm water drains falling into rivers)	
	Status of ULB wise SWM		
	ULB	Greater Chennai Corporation (GCC)	
	Total MSW generated in TPD	5666	
	Total MSW processed in TPD	800	
	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	800	
	Proposed MSW Facilities & Completion Timeline		
VIII	**<u>Plastic Waste Management:</u>**		
1	Total Plastic Waste generation:TPD	**231**	
2	Treatment/ Measures adopted for reduction or management of plastic waste:	RRC, MRF, Incinerator, Pyrolysis Plant, Offtake, Baling machines	
XXIV	**Regulation of /Mining Activities in the State/UT**		

Legacy waste

TN ULBs	Location	legacy waste estimated (Cu.Mtr)	Legacy waste 100% biomined (Cu.Mtr)		Under process (Balance Waste) Cu.Mtr												Remarks
			ULB	Waste	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	
Greater Chennai Corporation	Athipattu	86122			64630	62005	61345	60052	55182	50802	48454	41979	38154	35219	0 (Due to Heavy Rain)	34159	
	Pallikaranai	40853			737	0	0	0	0	0	0	0	0	0	0	0	
	Sathangadu	125635			108119	103785	101816	97902	92810	87913	87517	86514	82524	78141	0 (Due to Heavy Rain)	75911	
	Perungudi	3063122												3025123	0 (Due to Heavy Rain)	3021802	

National Mission for Clean Ganga
Format for submission of Monthly Progress Report December 2021 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)	**6 (19.18MLD)**	**-**
2	Capacity Utilization of existing STPs	**6.10 MLD**	**-**
3	MLD of sewage being treated through Alternate technology	**3 MLD**	**-**
4	Gap in Treatment Capacity in MLD	**407.11**	**24.86**
5	No. of Operational STPs	**6**	**-**
6	No. of Complying STPs	**6**	**-**
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	1.00	Operational	Complied
2	Orathanadu TP	2.30	1.30	Operational	Complied
3	Thiruchendur TP	Upgraded as Municipality			
4	Palanichettypatti TP	2.80	2.80	Operational	Complied
5	Thirumazisai TP	3.00	1.00	Operational	Complied
6	Ulunderpettai TP	Upgraded as Municipality			
7	Velankanni TP	2.33	-	Operational	Trial Run
8	Manachanallur TP S.Kannanur TP	6.41	-	Operational	Trial Run
		19.18	**6.10**		

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
Septage Management					
1	Karunguzhi	0.024	0.024	Operational	
2	Periyanaikanpalayam	0.030	0.03	Operational	
3	Chengam TP	0.020	-	Operational	Awaiting for Trial Run
4	Alangayam TP	0.015	-	Operational	Awaiting for Trial Run
		0.089	**0.054**		
TOTAL		**19.269**	**6.154**		

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	86% completed	5028/6000	31.12.2022
2	Thiruporur TP	4.02	66% Completed(UGSS)	3936/4479	31.03.2022
3	Ponneri TP	Upgraded as Municipality			
4	Vallam TP	2.35	98% completed	3520/3787	31.01.2021
5	Perundurai TP	3.14	98% completed	3533/5700	31.01.2022
6	Melachokanathapuram TP	2.00	98% completed	4458 / 4500	31.01.2022
	Total	**20.01**		**20475/24466**	
Septage Management					
1	Mudukulathur TP	0.015	95% completed	-	31.01.2022
2	Jalakandapuram TP	0.015	98% completed	-	31.01.2022
3	Pennagaram TP	0.015	85% completed	-	31.01.2022
4	Kaveripattinam TP	0.015	82% completed	-	31.01.2022
5	Kurumbalur TP	0.010	70% completed	-	31.03.2022
6	Pennadam TP	0.010	80% completed	-	28.02.2022
Total		**0.080**			

Details of proposed STPs in the State & PRS

S.No	Name of the ULB	STP/ FSTPs	STP/ FSTPs capacity in MLD/KLD	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	-	"
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	-	-	DTP	-	Tamilnadu Water Investment Company (M/s. TWIC) has been appointed as consultant for preparation of DPR. The DPR will be expected to be ready by 30.11.2021 .
11	Pethanaickenpalayam TP	-	-	DPR Stage	-	-	DTP	-	
12	Yethapur TP	-	-	DPR Stage	-	-	DTP	-	
13	Belur TP	-	-	DPR Stage	-	-	DTP	-	
14	Srivaikundam TP	-	-	DPR Stage	-	-	DTP	-	
15	Authoor TP	-	-	DPR Stage	-	-	DTP	-	
16	Eral TP	-	-	DPR Stage	-	-	DTP	-	
17	Alwarthirunagari TP	-	-	DPR Stage	-	-	DTP	-	
18	Then Thiruperai TP	-	-	DPR Stage	-	-	DTP	-	
19	Arumuganeri TP	-	-	DPR Stage	-	-	DTP	-	
20	Mukkudal TP	-	-	DPR Stage	-	-	DTP	-	
21	Gopalasamudram TP	-	-	DPR Stage	-	-	DTP	-	
22	Kallidaikurichi TP	-	-	DPR Stage	-	-	DTP	-	
23	Cheranmahadevi TP	-	-	DPR Stage	-	-	DTP	-	
24	Veeravanallur TP	-	-	DPR Stage	-	-	DTP	-	
25	Patthamadai TP	-	-	DPR Stage	-	-	DTP	-	
26	Mela Seval TP	-	-	DPR Stage	-	-	DTP	-	
27	Kuthalam TP	-	-	DPR Stage	-	-	PWD	-	DPR is under preparation by WAPCOS/ PWD.
28	Thirukattupalli TP	-	-	DPR Stage	-	-	PWD	-	
29	Thiruvaiyaru TP	-	-	DPR Stage	-	-	PWD	-	

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
1	Mangadu Opp to SWM,at pattur road		DPR stage-Comprehensive UGSS in Poonamallee cluster A with Mangadu Town Panchayat and 12 Village Town Panchayat	Upgraded as Municipality
2	Chitlapakkam		Detailed project Report is prepared through TNUIFSL for Sembakkam cluster basis with comprising 13 local bodies(Fund assistance from Project Development Grant Fund)	
3	Madampakkam			
4	Peerkankaranai		DPR as to be prepared through TNUIFSL by cluster basis	
5	Perungalathur			
6	Thiruneermalai			
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	Industrial	Status of ETPs	Status of CETPs

	industries	discharge		(existing, under construction & proposed)

V. **Solid Waste Management:**

- Total number of Urban Local Bodies and their Population – **State – 528 & PRS - 29**
- Current Municipal Solid Waste Generation **(State - 2100 MT & PRS - 125.73 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 - 2100 TPD	**Total MSW generated - 125.73 TPD**
Total MSW processed - 1819 TPD	**Total MSW processed - 109 TPD**
Gap in processing - 281 TPD	**Gap in processing - 16.73 TPD**

SN	Description	State			PRS		
		Nos	Installed Capacity MT	Utilization Capacity TPD	Nos	Installed Capacity MT	Utilization Capacity TPD
1	Windrow & Vermi Composting	735	844	844	43	72	71
2	De-Centralised	42	90	90	4	7	7
3	Bio-Gas / Bio-Methanation	20	105	105	3	6	6
4	RRC	527	780	780	29	25	25

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

State & PRS – Incinerators & Pyrolysis Plant is proposed to install for processing non-recyclable dry waste in 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 - 8288 **Door to Door collection – 7956** **Source segregation – 7459**	**Total no. of wards - 465** **Door to Door collection – 451** **Source segregation – 414**

- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)

✓ **So far 7 Incinerators has been completed remaining 3 Nos are under progress.(Trail run)**
✓ **So far 9 Pyrolysis has been completed remaining 1 No are under progress. (Trail run)**
✓ **For remaining Town Panchayats Incinerators & Pyrolysis are been proposed to install for processing non-recyclable dry waste in 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
528	**2100**	**1819**	**1.windrow & Vermi compost**	**844 TPD**	**Incinerators are proposed to install for processing non-recyclable dry waste in cluster basis**
			2.Decentralized composting	**90 TPD**	
			3. Biogas	**105 TPD**	
			4.Incinerator	**Under construction will be completed before July 2021**	

			5.Pyrolysis	**Under construction will be completed before July 2021**	

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	**125.73**	**109**	**1.windrow & Vermi Compost** **2. De-Centralized composting** **3. Biogas**	**72 MT** **7 MT** **6 MT** **25 MT**	**Incinerators & Pyrolysis Plant are proposed to install for processing non-recyclable dry waste in cluster basis**

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** - **120 TPD** & **PRS** – **6.9 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

  Incinerators & Pyrolysis plants are proposed to install for processing non-recyclable dry waste in cluster basis

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.

***Note: Incremental progress made by the State/UT in each activity to be provided.**

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 :November 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	10 (6 STP + 4 FSTP)	-
1b	Treatment Capacity (in MLD)	19.269 MLD	-
2	Capacity Utilization of existing STPs (MLD)	6.154 MLD	-
3	MLD of sewage being treated through Alternate Technology	3 MLD	-
4	Gap in Treatment Capacity in MLD	407.11 MLD	24.86 MLD
5	No. of Operational STPs	6	-
6	No. of Complying STPs	6	-
7	No. of Non-complying STPs	-	-
	Details of Under construction Sewage Treatment Plant:		
1	STP -Number	6	-
2	STP Capacity (MLD)	20.01	-
3	FSTP -Number	6	-
4	FSTP -capacity (MLD)	0.08	-
5	Status of I&D or House sewer connections	20475/24466	-

	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 issuses resolved	-	-

STPs under progress

TN ULBs	STP Name	Sanctioned month and year	capacity (MLD)	% of completion			
				Sep-21	Oct-21	Nov-21	Dec-21
	STP						
DTP	Sriperumbudur TP	19.6.2012/ 16.5.2014	8.50	80%	80%	82%	86%
	Thiruporur TP	19.09.2013 / 11.01.2017	4.02	65.48%	65.67%	65.67	66%
	Ponneri TP	19.09.2013 / 29.12.2016	6.52	47%	47%	47%	Upgraded as Municipality
	Manachanallur TP	17.05.2017	6.41	99%	99%	99%	100%
	S.Kannanur TP	19.09.2013 / 17.05.2017					
	Vallam TP	19.09.2013 / 11.01.2017	2.35	97%	98%	98%	98%
	Perundurai TP	17.01.2013 / 15.05.2020	3.14	96%	96%	97%	98%
	Melachokanathapuram TP	04.11.2019	2.00	96%	96%	97%	98%
	FSTP						
DTP	Mudukulathur TP	21.1.2019	0.015	95%	95%	95%	95%
	Jalakandapuram TP	21.1.2019	0.015	98%	98%	98%	98%
	Pennagaram TP	21.1.2019	0.015	80%	80%	82%	85%
	Kaveripattinam TP	21.1.2019	0.015	82%	82%	82%	82%
	Chengam TP	21.1.2019	0.02	98%	98%	98%	100%
	Kurumbalur TP	21.1.2019	0.01	70%	70%	70%	70%
	Pennadam TP	21.1.2019	0.01	80%	80%	80%	80%
	Alangayam TP	21.1.2019	0.015	98%	98%	98%	100%

Legacy waste

TN ULBs	legacy waste estimated (Cu.Mtr)	Legacy waste 100% biomined (Cu.Mtr)		Under process (Balance Waste) Cu.Mtr														Remarks
		ULB	Waste	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	
Thirunindravur	5798		5798.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Denkanikottai	14855		14855	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thammampatty	5918		5918	823	358	-	-	-	-	-	-	-	-	-	-	-	-	-	
Velur	4973		4973	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Perundurai	14000		14000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Marakkanam	18186		18186	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ulundurpettai	6167		6167	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Madukkur	6506		6505.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chinnalapatti	5964		5963.7	1058	512	235	-	-	-	-	-	-	-	-	-	-	-	-	
Thenkarai	6549		6549	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uthamapalayam	6877		6876.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Kaveripattinam	10856		10856	1336	1113	890	685	356	-	-	-	-	-	-	-	-	-	-	
Anaimalai	7116			961	801	640	493	400	350	300	275	244	205	205	205	205	180	180	
Velankkani	26082			7304	6087	4869	3746	3551	3412	3310	2947	2915	2885	1565	1565	1565	1500	1500	
Anthiyur	14810			4462	3718	2974	2288	2180	2075	2025	1955	1912	181	181	181	181	170	170	
Thiruvaiyaru	17500			5574	4645	3716	2858	2752	2650	2550	1750	1705	1650	1650	1650	1650	1600	1600	
Jalakandapuram	6036			2786	2322	1857	1429	396	396	296	296	296	256	256	256	256	250	250	
Omalur	4600			2496	2080	1664	1280	1180	1050	995	995	995	954	954	954	954	950	950	
Alanganallur	3186			1741	1451	1161	893	788	705	705	705	705	655	655	655	655	600	600	
Omalur	3489			2323	1936	1549	1191	1095	986	948	520	500	480	480	480	480	450	450	
Palamedu	1574			1051	876	701	539	485	54	54	54	54	54	54	-	-	-	-	
Musiri	17755			12176	10147	8117	6244	6012	5922	5800	5800	5800	5800	4955	4955	4955	4905	4905	
Perundurai	19790			13712	11427	9142	7032	6750	6625	6525	6401	6380	6302	5940	5940	5940	5900	5900	
Kanniyakumari	12113			10170	8475	6780	5215	5045	4902	4801	3683	3605	3585	3585	3585	3585	3550	3550	
Tiruchendur	8953			7727	6439	5151	3962	3853	3755	3645	3645	3645	3645	3645	3645	3645	3600	3600	
P.Velur	10474			9631	8026	6421	4939	4822	4715	4621	4511	4490	4425	4425	4425	4425	4400	4400	
Sulur	5300			4941	4117	3294	2534	2312	2211	2105	2100	2004	2004	2004	2004	2004	1950	1950	
Adirampattinam	18140			16235	14324	12169	9361	9100	8950	8804	8804	8804	8804	8804	8804	8804	8780	8780	
Avinasi	7583			5649	4374	3099	2922	2800	2700	2625	2625	2625	2625	2625	2625	2625	2600	2600	
Karamadai	7000			5476	4980	3784	2680	2501	2455	2375	2375	2375	2375	2375	2375	2375	2350	2350	
Naravarikuppam	5208			4550	3625	2700	1846	1680	1595	1595	1248	1148	1105	1048	1048	1048	1000	1000	
Karumandi Chell	16088			13375	11479	10584	8910	8750	8550	8550	8422	8400	8354	8354	8354	8354	8300	8300	
Harur	11181			9995	8895	7716	6705	6587	6425	6315	6214	6114	6050	6050	6050	6050	6000	6000	
Ammapettai	9993			8126	6744	5795	4996	4802	4702	4596	4197	4000	3950	3950	3950	3950	3900	3900	
Pallapatti	27897			22871	19823	17825	15588	15021	14200	14005	14005	14005	14005	14005	14005	14005	13980	13980	
Annur	9893			7270	6850	6145	5394	5204	5095	4985	4985	4985	4915	4915	4915	4915	4900	4900	
Periyanaickenpal	11587			9950	9040	8560	7060	6844	6790	6650	6650	6650	6605	6605	6605	6605	5985	5985	
Swamimalai	11251			8911	8301	7891	6590	6350	6200	6095	6000	5980	5900	5900	5900	5900	5900	5900	
Suleswaranpatti	10883			9156	8598	7990	7108	6950	6822	6685	6685	6685	6685	6685	6685	6685	6685	6685	
Thirumazhisai	2265		2265	2056	1901	1711	1692	1566	1455	405	-	-	-	-	-	-	-	-	
Gingee	14284			13876	12010	11450	10678	10025	9787	5000	2572	2207	2207	2207	2207	2207	2207	2207	
Thammampatti	5782			5120	4912	4589	4466	4205	4111	4000	4000	4000	4000	4000	4000	4000	4000	4000	
Kaliyakkavilai	1535			1401	1345	1256	1188	1098	1005	995	995	995	995	995	995	995	995	995	
Manachanallur	16983			14790	13556	12780	13246	12850	12500	12150	12150	12150	12150	12150	12150	12150	12100	12100	
Vazhapadi	6134			6005	5761	5210	4847	4684	4551	4500	4500	4500	4500	4500	4500	4500	4500	4500	
Polur	16140			15009	14523	13311	12912	12500	12305	12255	12105	12008	11950	11950	11950	11950	11900	11900	

Kunathur	8168			7925	7311	6901	6534	6248	6150	6045	6045	6045	6000	6000	6000	6000	5950	5950
Vathalagundu	17271			15578	14980	14211	13817	13284	13005	12951	12951	12951	12900	12900	12900	12900	12850	12850
Chinnalapatti	3511			3511	3211	3010	2809	2700	2611	2565	2565	2565	2500	1861	1861	1861	1861	1861

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 December 2021 - Prepared By _____CMA/GCC/DTP/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	2100 TPD			125.73 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	735	844	844	43	72	71
b.	Vermi Compost						
c.	Decentralized pit composting	42	90	90	4	7	7
d.	Biomethanation	20	105	105	3	6	6
e.	MRF/RRC	527	780	780	29	25	25
f.	others						
g.	Waste to Energy						
4	Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)	Incinerators & Pyrolysis Plant is proposed to install for processing non-recyclable dry waste in cluster basis			Incinerators & Pyrolysis Plant is proposed to install for processing non-recyclable dry waste in 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. &**	**Proposed (No. & Capacity)**	**Under construction (No. & Capacity)**
6	Total no. of wards	8288			465		
	Total no. of wards having door to door collection service	7956			465		
	Total no. of wards practicing segregation at source	7459			414		
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 - 10 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	528	29
	Total MSW generated in TPD	2100	125.73
	Total MSW processed in TPD	1819.21	109
	Existing MSW facilities	Windrow compost, Vermi compost, Decentralized composting, Bio-gas, Incinerator, Pyrolysis	Windrow and Vermi Compost
	Utilization capacity of the existing MSW facilities	1819 MT	109MT
	Proposed MSW Facilities & Completion Timeline	Incinerators are proposed to install for processing non-recyclable dry waste in cluster basis	Incinerators & Pyrolysis Plant are proposed to install for processing non-recyclable dry waste in 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	**Plastic Waste Management:**		
1	Total Plastic Waste generation:TPD	120 TPD	6.9 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 Incinerators & Pyrolysis plants are proposed to install for processing non-recyclable dry waste in 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 Incinerators & Pyrolysis plants are proposed to install for processing non-recyclable dry waste in cluster basis
XXIV	**Regulation of /Mining Activities in the State/UT**		

GOVERNMENT OF TAMILNADU
WATER RESOURCES DEPARTMENT

From
Er. S. Prabakaran, B.E.,
Chief Engineer, WRD,
State Ground & Surface Water
Resources Data Centre,
Public Works Department,
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:11.01.2022

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 **December 2021,** for **Six Polluted river stretches**- Submission - Regarding.

Ref: 1. Email received from Deputy Director, TNPCB dated 09.11.2021.
2. Email received from Deputy Director, TNPCB dated 13.12.2021.

The monthly progress reports of the following polluted river stretches are herewith enclosed in the prescribed format.

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

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

Enclosure: Monthly progress reports

Copy presented to the Additional Chief Secretary, to Government, PWD, Fort. st. George, Chennai-9

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

11/1/22
for Chief Engineer (SG & SWRDC)
Tharamani, Chennai -113.

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 **December 2021** for TNPWD WRD
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 Papanaickenpatti, 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 336 to 1029 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. 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. • A Comprehensive Groundwater (Management and Development) Act., to regulate and Manage the extraction of Groundwater is under active consideration of the Government. The draft act has been approved by the high level technical committee headed by the Chief Secretary. Further action to enact the law is under process.

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
16	---	---

XVII. 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.

XVIII. 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.

XIX. Plantation activities along the rivers:

There is no proposal at present.

XX. Development of biodiversity park:

There is no proposal at present.

11/1/22

for Chief Engineer (SG & SWRDC)

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 **December 2021** for TNPWD WRD

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 523 to 2096 mg/L and the quality of ground water lies between Moderate to poor. 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 412 to 2845mg/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 Namkkal shows the TDS values exceed even 6000mg/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 of the order of 5000 to 6000mg/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. 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. • A Comprehensive Groundwater (Management and Development) Act., to regulate and Manage the extraction of Groundwater is under active consideration of the Government. The draft act has been approved by the high level technical committee headed by the Chief Secretary. Further action to enact the law is under process.

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
44	10	29

XVII. 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 is under the scrutiny. The tentative cost of the DPR is around 20 crores. Encroachment if any identified during the survey will be evicted and other management works will be completed by March 2022 after rehabilitation and resettlement.

XVIII. 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 **December 2021** an E Flow of **0.971** TMC was maintained.

XIX. 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 is under the scrutiny. Plantation work will be completed in March 2022.

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 in slow progress due to pandemic situation. This work will be completed in March 2022.

11.1.22

for Chief Engineer (SG & SWRDC)

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 **December 2021** for TNPWD WRD
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 500 to 2000mg/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. 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. • A Comprehensive Groundwater (Management and Development) Act., to regulate and Manage the extraction of Groundwater is under active consideration of the Government. The draft act has been approved by the high level technical committee headed by the Chief Secretary. Further action to enact the law is under process.

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
6	----	14 (Recharge well structures)

XVII. 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 is under the scrutiny. The tentative cost of the DPR is around 2 crores. Encroachment if any identified during the survey will be evicted and other management works will be completed by March 2022 after rehabilitation and resettlement.

XVIII. 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 is under the scrutiny. E flow will be maintained in this river after completion sewage treatment plants by March 2022, as the treated water will flow as environmental flow.

XIX. 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 by M/s.WAPCOS and is under the scrutiny. Plantation work will be completed in March 2022.

XX. 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 the scrutinization of DPR is in slow progress due to pandemic situation. This work will be completed in March 2022.

11/1/22

for Chief Engineer (SG & SWRDC)

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 **December 2021** for TNPWD WRD

Reach: Sirumugai to Kalingarayan stretch in Bhavani River

XIII. 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. Especially Nilgiris is having good quality water.

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.

XIV. 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. • A Comprehensive Groundwater (Management and Development) Act., to regulate and Manage the extraction of Groundwater is under active consideration of the Government. The draft act has been approved by the high level technical committee headed by the Chief Secretary. Further action to enact the law is under process.

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
19	Check dam – 5 Nos. Recharge shaft – 23 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 is under the scrutiny of PWD. The tentative cost of the DPR is around 2 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 **1,04, 907** cusecs (including Irrigation purpose) was maintained in the river Bhavani during the month of **December 2021**.

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 is under the scrutiny of PWD. Plantation work will be completed in March 2022.

XX. Development of biodiversity park:

Drone Survey has been completed by M/s.WAPCOS in January 2021. This is proposed to be taken up under Nadanthai Vaazhi Cauvery for which a draft DPR prepared by M/s.WAPCOS and has been submitted and is under the scrutiny of PWD. This work will be completed in March 2022.

11/1/22

for Chief Engineer (SG & SWRDC)

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 **December 2021** for TNPWD WRD
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 Tamiraparani stretch, this department is having water quality data for cheranmadevi, Thiruvidaimaruthur, Ambasamudram, Thirunelveli, 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 Dec 2021
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 throughout Tamil Nadu. In this basin area **9** illegally operating firkas have been sealed and closed. • A Comprehensive Groundwater (Management and Development) Act., to regulate and Manage the extraction of Groundwater is under active consideration of the Government. The draft act has been approved by the high level technical committee headed by the Chief Secretary. Further action to enact the law is under process.

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 alloted 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 **1316.89 cusecs** of water is released into the river in the month of **December 2021** 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 it's 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 TamilNadu.

11/1/22

for Chief Engineer (SG & SWRDC)

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 **December 2021 for TNPWD WRD**
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 399mg/L to 1885 mg/L. Danishpet 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. 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. • A Comprehensive Groundwater (Management and Development) Act., to regulate and Manage the extraction of Groundwater is under active consideration of the Government. The draft act has been approved by the high level technical committee headed by the Chief Secretary. Further action to enact the law is under process.

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
5	2	10 Recharge wells

XVII. 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 in progress. The tentative cost of the DPR is around 2 crores. Encroachment if any identified during the survey will be evicted and other management works will be completed by March 2022 after rehabilitation and resettlement.

XVIII. 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 in progress. E flow will be maintained in this river after completion sewage treatment plants by March 2022, as the treated water will flow as environmental flow.

XIX. 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 submitted and is under the scrutiny. Plantation work will be completed in March 2022.

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 in slow progress due to pandemic situation. This work will be completed in March 2022.

for Chief Engineer (SG & SWRDC)

ANNEXURE

BIOMEDICAL WASTE MANAGEMENT as on 31.12.2021

<table>
<tr><th>S.No.</th><th>Bio-Medical Waste Management</th><th colspan="2">State</th><th colspan="2">Polluted River Stretch</th></tr>
<tr><td rowspan="8">1</td><td rowspan="8">Total Bio-medical generation (TPD)</td><td rowspan="4">Authorised BMW generation qty:</td><td rowspan="4">86.90 T/day</td><td>Salem</td><td>2.081</td></tr>
<tr><td>Namakkal</td><td>0.726</td></tr>
<tr><td>Dharmapuri</td><td>0.574</td></tr>
<tr><td>Erode</td><td>0.761</td></tr>
<tr><td rowspan="4">Avg. Actual BMW Generation:</td><td rowspan="4">35.27 T/day</td><td>Karur</td><td>0.941</td></tr>
<tr><td>Trichy</td><td>1.711</td></tr>
<tr><td>Thanjavur</td><td>1.744</td></tr>
<tr><td>Nagapattinam</td><td>1.073</td></tr>
<tr><td rowspan="9">2</td><td rowspan="9">No. of Hospitals and Health Care Facilities</td><td colspan="2" rowspan="9">26827 as on 31.12.2021</td><td>Salem</td><td>1244</td></tr>
<tr><td>Namakkal</td><td>553</td></tr>
<tr><td>Dharmapuri</td><td>503</td></tr>
<tr><td>Erode</td><td>502</td></tr>
<tr><td>Karur</td><td>474</td></tr>
<tr><td>Trichy</td><td>1076</td></tr>
<tr><td>Thanjavur</td><td>1088</td></tr>
<tr><td>Nagapattinam</td><td>655</td></tr>
<tr><td>3</td><td>Status of Treatment Facility / CBMWTFs</td><td colspan="2">In Tamil Nadu, there are 12 CBMWTFs, out of which 10 facilities are in operation and two facilities at Ooty and Ramanathapuram have been issued with closure direction by TNPCB for non compliance of consent order conditions and Bio Medical Waste Management Rules, 2016. The biomedical wastes generated from the Health Care Facilities attached to these two facilities which are under closure are sent to other CBMWTFs for further treatment and disposal. On an average, 35.27 Tons/day of bio-medical wastes are handled by these facilities. In addition, three common facilities are under establishment in Gummidipoondi, Hosur</td><td colspan="2">1. One Facility M/s. Medicare Enviro Systems, Thanjavur is in operation which covers the following districts Thanjavur, Thiruvarur, Trichy, Nagapattinam, Pudukottai, & Sivagangai.
2. Another Facility in M/s. Ramky Energy And Environment Ltd, Salem is in operation which covers the following districts Salem, Namakkal, Erode, Dharmapuri, Krishnagiri & Karur.</td></tr>
</table>

		and Tiruppur Districts. Total installed capacity of 10 CBMWTFs in Tamil Nadu which is in operation is 85.95 TPD (Incinerator & Autoclave)	

List of common bio-medical waste treatment facilities (CBMWTFs) in Tamil Nadu

S.No.	Name & Address of the CBMWTFs	Regions covered
1.	M/s. G. J. Multiclave (India) Pvt Ltd, Thenmelpakkam, Chengalpattu Taluk, Chengalpattu District.	Part of Chennai & Kancheepuram Districts
2.	M/s. Tamilnadu Waste Management Ltd., Maduranthakam Taluk, Chengalpattu District.	Chennai (North), Part of Kancheepuram, Tiruvallur, Cuddalore and Villupuram Districts
3.	M/s. Medicare Enviro Systems, Sengipatti, Thanjavur Taluk, Thanjavur District.	Thanjavur, Thiruvarur, Trichy, Nagapattinam, Pudukottai, & Sivagangai Districts
4.	M/s. Ken Bio Links Private Ltd., Kandipedu,Katpadi Taluk, Vellore District.	Vellore & Tiruvannamalai Districts
5.	M/s. Society for Bio Medical Waste Management, Udhagamandalam, The Nilgiris District.	Under Closure
6.	M/s. Neat and Clean Service Squad, Muthuvayal, Ramanathapuram District.	Under Closure
7.	M/s. Ramky Energy and Environment Ltd, Thangayur, Salem District.	Salem, Namakkal, Erode, Dharmapuri, Krishnagiri & Karur Districts
8.	M/s.Teknotherm Industries, Orattukuppai, Coimbatore District.	Coimbatore, Nilgris & Tiruppur Districts
9.	M/s. Aseptic System Bio Medical Waste Management Co., Pappankulam,Tirunelveli District.	Tirunelveli, Thoothukudi & Kanyakumari Districts
10.	M/s. Ramky Energy and Environment Ltd., Undurmikidakulam, Virudhunagar District.	Madurai, Virudhunagar, Dindigul, Theni & Ramanathapuram Districts
11.	M/s. Kovai Bio Waste	Coimbatore, Tiruppur & Nilgiris

	Management Pvt Ltd., Orattukuppai, Coimbatore District.	Districts
12.	M/s. Pondicherry Solid Waste Management Company Private Limited, S.F.NO.275/2, T. Pudaiyur village, Virudhachalam Taluk, Cuddalore District	Cuddalore, Villupuram, Perambalur, Ariyalur

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.	Dec-21		
			D.O mg/L	BOD at 27^0 C mg/L	Fecal coliform MPN/100 ml
1	Edappadi (River)	3024	6.7	<2	430

Standard limit for BOD <3 mg/L
Standard limit for Fecal coliform <500 MPN/100ml
Standard limit for DO 5.0 mg/l

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Water Quality Status of Polluted River Stretches

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

Sl. No.	Name of station	Station Code No.	Dec-21		
			D.O mg/L	BOD at 27^0 C mg/L	Fecal coliform MPN/100 ml
1	Uthamasolapuram (River)	3022	6.5	<2	330

Standard limit for BOD <3 mg/L
Standard limit for Fecal coliform <500 MPN/100ml
Standard limit for DO 5.0 mg/l

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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.	Dec-21		
			D.O mg/L	BOD at 27^0 C mg/L	Fecal coliform MPN/100 ml
1	Thulukkanur (River)	3023	6.6	<2	170

Standard limit for BOD <3 mg/L
Standard limit for Fecal coliform <500 MPN/100ml
Standard limit for DO 5.0 mg/l

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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.	Dec-21		
			D.O mg/L	BOD at 27^0 C mg/L	Fecal coliform MPN/100 ml
1	Mettur	50	6.0	<2	31
2	Pallipalayam	51	6.4	<2	43
3	Musiri Borewell	32	Samples not received		
4	Musiri Ferry Gate	31	7.2	2.5	130
5	Komarapalayam	3012	6.8	<2	46
6	Urachikottai	3013	6.5	<2	33
7	Seerampalayam	3014	6.6	2	31
8	Pugalur	3015	6.3	2.2	210
9	Pettavaithalai	3016	7.1	2.6	150
10	Kumbakonam	3017	7.7	2	70
11	Mayiladurai	3018	6.1	<2	58
12	R.N. Pudur	1322	5.1	4.6	33
13	Vairapalayam	1320	6.1	2.1	31
14	P. Velur	1323	6.3	<2	250
15	Mohanur	1324	6.8	<2	310
16	Thirumukkudal	1451	6.2	<2	220
17	Trichy Upstream	1202	7.3	2.2	220
18	Trichy Downstream	1325	7.4	2.3	1200
19	Grand Anaicut	1203	7.6	2	84

Standard limit for BOD <3 mg/L

Standard limit for Fecal coliform <500 MPN/100ml

Standard limit for DO 5.0 mg/l

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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.	Dec-21		
			D.O mg/L	BOD at 27^0 C mg/L	Fecal coliform MPN/100 ml
1	Badrakaliamman koil	1201	6.3	<2	31
2	Sirumugai	1204	6.3	<2	23
3	Bhavanisagar	1321	6.4	2.5	31
4	Bhavani	1205	6.4	<2	58
5	Sathyamangalam	3019	6.6	2	43
6	Kalingarayan Canal (B5)	3020	6.5	<2	31
7	Kalingarayan Canal (B10)	3021	6.0	2.5	79

Standard limit for BOD <3 mg/L
Standard limit for Fecal coliform <500 MPN/100ml
Standard limit for DO 5.0 mg/l

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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.	Dec-21		
			D.O mg/L	BOD at 27^0 C mg/L	Fecal coliform MPN/100 ml
1	Papanasam	1159	7.5	2.3	2
2	Cheranmadevi	1160	6.6	2.9	20.0
3	Kokirakulam	1161	6.6	2.7	70
4	Murapanadu	1162	7.0	2.6	70
5	Thiruvidaimarudur	1328	6.7	2.6	11
6	Ambasamudram	1329	7.0	2.2	8
7	Authoor	1330	7.2	2.7	110
8	Eral	3025	7.5	2.8	94
9	Kallidaikurichi	3026	6.5	2.9	8
10	Srivaikuntam	3027	7.6	2.9	70
11	Vellakovil	3028	6.5	2.9	63
12	Seevalaperi	3029	6.5	2.9	94

Standard limit for BOD <3 mg/L
Standard limit for Fecal coliform <500 MPN/100ml
Standard limit for DO 5.0 mg/l