TAMIL NADU POLLUTION CONTROL BOARD

From	To
R.Kannan M.Tech, Member Secretary, Tamil Nadu Pollution Control Board, Guindy Chennai-600 032.	The Principal 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: 22.10.2021.

Sir,

Sub: TNPCB-Submission of Revised Monthly Progress Report for the month of **September 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. 07.06.21

With reference to the Government letter 1st cited, I submit the monthly progress report on action plans for the Polluted River Stretches for the month of **September 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 the Central Pollution Control Board, New Delhi.

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

Encl: As above

Sd/-R.Kannan
Member Secretary

Deputy Director (Labs)

Advance copy to:

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

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)

September 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

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

Month: September 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)	72 1670.10	13 264.87
2	Capacity Utilization of existing STPs	991.92	128.10
3	MLD of sewage being treated through Alternate technology	752	1.56
4	Gap in Treatment Capacity in MLD	1364.06	121.96
5	No. of Operational STPs	72	12
6	No. of Complying STPs	72	12
7	No. of Non-complying STPs	Nil	Nil
8	Existing No. and Capacity of FSTP (in MLD)	11 0.324	2 0.06

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 STP Zone –IV	23	10.76	Operation	Complied
2.	Koyambedu STP Zone – II	34	23.68	Operation	Complied
3.	Kodungaiyur STP Zone II	80	77.30	Operation	Complied
4.	Kodungaiyur STP Zone I	80	78.03	Operation	Complied
5.	Perungudi STP Zone - V	12	10.39	Operation	Complied
6.	KoyambeduSTP Zone - III	60	9.13	Operation	Complied

7.	Kodungaiyur STP Zone I& II	110	107.49	Operation	Complied
8.	Nesapakkam STP Zone –IV	40	29.93	Operation	Complied
9.	Perungudi STP Zone-V	54	50.59	Operation	Complied
10	Perungudi STP Zone-V	60	53.28	Operation	Complied
11	Nesapakkam STP Zone –IV	54	50.67	Operation	Complied
12	Koyambedu STP Zone – III	120	94.10	Operation	Complied
13	Sholinganallur STP	18	4.05	Operation	Complied
Total (13 Nos)		**745**	**599.40**	.	
	CMA				
14	Coimbatore- 1	70.00	35.00	Operational	Complied
15	Coimbatore- 2	60.00	5.00	Operation	Complied
16	Vellore	10.28	8.00	Operation	Complied
17	Dindigul	13.65	3.00	Operation	Complied
18	Avadi	**36.00**	**1.00**	Operation	Complied
19	Avadi	4.00	2.50	Operation	Complied
20	Madurai-1	125.00	24.00	Operation	Complied
21	Madurai-2	45.70	15.00	Operation	Complied
22	Thanjavur	28.05	14.15	Operation	Complied
23	Tiruppur	15.00	8.50	Operation	Complied
24	Cuddalore	12.25	6.50	Operation	Complied
25	Kanchipuram	14.70	14.70	Operation	Complied
26	Maraimalai Nagar	2.20	2.20	Operation	Complied
27	Tiruvallur	6.20	5.50	Operation	Complied
28	Chidambaram	9.44	3.65	Operation	Complied
29	Thiruvannamalai	8.70	4.50	Operation	Complied
30	Viluppuram – Kakuppam	9.0	7.00	Operation	Complied

31	Viluppuram - Erumanthangal	3.50	1.80	Operation	Complied
32	Arakkonam	11.04	2.00	Operation	Complied
33	Thirupathur	11.43	2.40	Operation	Complied
34	Bodinayakkanur	12.08	4.00	Operation	Complied
35	Chinnamanur	3.99	3.72	Operation	Complied
36	Periyakulam	5.47	4.00	Operation	Complied
37	Ramanathpuram	7.00	5.80	Operation	Complied
38	Rasipuram	6.96	2.60	Operation	Complied
39	Theni-Allinagaram	12.05	9.50	Operation	Complied
40	Sivagangai	4.92	2.00	Operation	Complied
41	Dharmapuri	4.86	3.50	Operation	Complied
42	Karur	15.00	6.50	Operation	Complied
43	Krishnagiri	12.34	8.00	Operation	Complied
44	Namakkal	5.00	5.00	Operation	Complied
45	Nagapattinam STP-1	9.63	4.10	Operation	Complied
46	Nagapattinam STP-2	2.69	1.00	Operation	Complied
47	Tiruvarur	6.92	4.10	Operation	Complied
48	Ariyalur	4.16	1.20	Operation	Complied
49	Pudukkottai	10.62	6.00	Operation	Complied
50	Perambalur	4.20	3.60	Operation	Complied
51	Udhagamandalam	5.00	4.00	Operation	Complied
52	Udumalaipet	7.81	4.00	Operation	Complied
53	Virudhunagar	7.65	3.80	Operation	Complied
54	Tiruchirappalli	58.00	58.00	Operation	Complied
55	Salem - Vellakuttai STP	13.00	7.00	Operation	Complied

56	Salem - Anaimedu STP	6.00	4.00	Operation	Complied
57	Salem - Mankuttai STP	35.00	4.00	Operation	Complied
58	Salem - Vandipettai STP	44.00	1.00	Operation	Complied
59	Tirunelveli	24.20	9.00	Operation	Complied
60	Erode	50.55	27.00	Operation	Complied
61	Mettur STP-1	0.82	0.50	Operation	Complied
62	Mettur STP-2	0.92	0.15	Operation	Complied
63	Mettur STP-3	5.45	2.20	Operation	Complied
64	Kumbakonam	17.00	12.50	Operation	Complied
65	Mayiladuthurai	5.85	5.85	Operation	Complied
	Total - 52 Nos.	**905.28**	**385.02**		
	DTP				
66	Mamallapuram TP	2.34	1.00	Operation	Complied
67	Orathanadu TP	2.30	1.30	Operation	Complied
68	Thiruchendur TP	3.90	1.40	Trial Run	Being complied
69	Palanichettypatti TP	2.80	2.80	Operation	Complied
70	Thirumazisai TP	3.00	1.00	Operation	Complied
71	Ulunderpettai TP	3.15	-	Trial Run	Being complied
72	Velankanni TP	2.33	-	Trial Run	Being complied
	Total (7 Nos)	**19.82**	**7.50**		
Grand Total (72 Nos.)		**1670.10**	**991.92**		

Details of existing FSTPS in Tamil Nadu

S.No.	Location	Existing STP Capacity MLD	Capacity Being Utilized MLD	Operational Status of STP	Compliance Status of STP
	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
	Total 9 FSTPs	**0.27**	**0.27**	Operation	Complied
	DTP				
10.	Karunguzhi	0.024	0.024	Operation	Complied
11.	Periyanaikanpalayam	0.03	0.03	Operation	Complied
	Total	**0.054**	**0.054**		
	Grand Total (11 Nos)	**0.324**	**0.324**		

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 STP	54 (36+18)	88.0	Dec 2021 18 MLD commissioning work under progress	
2	Thiruvottriyur STP	31	100	Trial run, Improvement and additional works are in progress	
3	Kodungaiyur STP Zone - I	120	52.85		Feb 2022
4	Kodungaiyur STP Zone - II	120	66.38		Feb 2022
5	Nesapakkam STP Zone - IV	50	44.07		Feb 2022
6	Perungudi STP Zone - V	60	42.87		Feb 2022
7	Nesapakkam TTUF	10	87.00		Mar 2022
8	Perungudi TTUF	10	63.00		Mar 2022
9	Chennai River Restoration Trust (CRRT),Chetpet MSTP	1	95.00		Sep 2021
10	CRRT, Nungambakkam MSTP	1.2	66.20		Dec 2021
11	CRRT, Langs Garden MSTP	10	34.66		May 2022

12	CRRT, Todd Hunter Nagar MSTP	0.4*4=1.6	15.00		Jan 2022
13	CRRT, Kottupuram MSTP	0.3*2=0.6	30.00		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	90	-	Nov-21
16	Coimbatore – Kuruchi & kuniyamuthur	30.53	86	-	Mar-23
17	Karaikudi	16.00	81	-	Oct-21
18	Nagercoil	17.66	90	-	Oct-21
19	Pollachi	11.25	97	4650	Dec-21
20	Rajapalayam	21.85	33	-	March-22
21	Rameshwaram	4.08	37	-	March-22
22	Sattur	4.65	87	-	Oct-21
23	Tambaram	30.00	97	3930	Oct-21
24	Tiruppur	15.00	60		June-22
25	Tiruppur (Sarkarperipalayam)	36.00	70		Feb-22
26	Tiruppur (Chinnandipalayam)	20.00	70	-	Feb-22
27	Tuticorin	28.00	90	-	Nov-21
28	Vellore	50.00	61	-	Dec-21
29	Tindivanam	11.44	Preliminary work is under progress		Dec-23
30	Villupuram Added Area	4.56			Dec-23
31	Pammal & Anagaputhur	27.00			Mar-23
32	Tiruchirapalli-STP-1	30.00	53	-	Dec-21
33	Tiruchirapalli-STP-2	37.00	73	-	Dec-21
34	Mettupalayam	8.65	97	-	Oct-21
35	Sathiyamangalam	4.08	100	Effecting HSCs under progress & to be commissioned	
Total (22 Nos)		**464.46**			
DTP					
36	Sriperumbudur TP	8.50	80	5028/6000	31.12.2021
37	Thiruporur TP	4.02	65.48	3936/4479	31.03.2022
38	Ponneri TP	6.52	47	2056/7605	31.08.2022
39	Manachanallur TP	6.41	99	3652/3652	31.08.2021
40	S.Kannanur TP			2320/2320	
41	Vallam TP	2.35	97	3520/3787	15.09.2021
42	Perundurai TP	3.14	96	3533/5700	30.09.2021
43	MelachokanathapuramTP	2.00	96	4438/4500	31.10.2021
	Total (8 Nos)	**32.94**		**28483/38043**	
	Grand Total (43 Nos)	**966.8**			

Details of under construction FSTPs in Tamil Nadu

Sl.No.	Location	Capacity of the plant (MLD)	Physical Progress in %	Completion Timeline
	CMA			
1	Paramakudi	0.04	100	Oct-21
2	Aruppukottai	0.04	95	Oct-21
3	Pattukottai	0.03	98	Oct-21
4	Tiruchengode	0.04	95	Oct-21
5	Melur	0.02	95	Oct-21
6	Mannargudi	0.03	98	Oct-21
7	Ambasamudiram	0.03	100	Oct-21
8	Sankarankoil	0.03	92	Nov-21
9	Tenkasi	0.04	85	Nov-21
10	Koothanallur	0.02	72	Dec-21
11	Kulithalai	0.02	85	Nov-21
12	Padmanabhapuram	0.02	70	Dec-21
13	Virudhachalam	0.04	68	Nov-21
14	Sirkali	0.02	75	Nov-21
15	Srivilliputhur	0.03	80	Nov-21
16	Vedaranyam	0.02	60	Dec-21
17	Gudiyatham	0.03	70	Dec-21
18	Cumbum	0.04	75	Dec-21
19	Aranthangi	0.02	60	Dec-21
20	Vandavasi	0.02	80	Oct-21
21	Thiruthuraipoondi	0.01	75	Dec-21
22	Puliangudi	0.04	42	Dec-21
23	Chengalpattu	0.02	41	Dec-21
24	Attur	0.04	45	Jan-22
25	Walajapet	0.03	41	Dec-21
26	Sivakasi	0.04	26	Mar-22
27	Keelakarai	0.02	40	Dec-21
28	Gudalur	0.02	41	Dec-21
29	Coonoor	0.01	18	Mar-22
30	Nellikuppam	0.02	3	Mar-22
31	Manapparai	0.02	0	-
32	Panruti	0.03	0	Mar-22
33	Colachel	0.04	10	Mar-22
DTP	**Total**	**0.92**		
34	Mudukulathur TP	0.015	95	31.08.2021
35	Jalakandapuram TP	0.015	98	31.08.2021
36	Pennagaram TP	0.015	80	30.09.2021
37	Kaveripattinam TP	0.015	82	30.09.2021
38	Chengam TP	0.020	98	31.08.2021
39	Kurumbalur TP	0.010	70	30.09.2021
40	Pennadam TP	0.010	80	31.08.2021
41	Alangayam TP	0.015	98	31.08.2021
	Total	**0.115**		
	Grand Total (41 Nos)	**1.035**		

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	Tender Received & Work to be commenced	
2	Tirunelveli	10.00		
	Total (2 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	Musiri TP		DPR Stage	DPRs are under preparation by WAPCOS/ PWD.
10	Sirugamani TP		DPR Stage	
11	Mohanur TP		DPR Stage	
12	Velur TP		DPR Stage	
13	Punjai Pugalur TP		DPR Stage	
14	Bhavani sagar TP		DPR Stage	
15	Sirumugai TP		DPR Stage	
16	Madathukulam TP		DPR Stage	
17	Omalur TP		DPR Stage	
18	Poallampatty TP		DPR Stage	DPRs are under preparation by Tamil Nadu Water Investment Company (TWIC).
19	PethanaickenpalayaTP		DPR Stage	
20	Yethapur TP		DPR Stage	
21	Belur TP		DPR Stage	
22	Srivaikundam TP		DPR Stage	
23	Authoor TP		DPR Stage	
24	Eral TP		DPR Stage	
25	Alwarthirunagari TP		DPR Stage	
26	Then Thiruperai TP		DPR Stage	
27	Arumuganeri TP		DPR Stage	
28	Mukkudal TP		DPR Stage	
29	Gopalasamudram TP		DPR Stage	
30	Kallidaikurichi TP		DPR Stage	
31	Cheranmahadevi TP		DPR Stage	
32	Veeravanallur TP		DPR Stage	
33	Patthamadai TP		DPR Stage	
34	Mela Seval TP		DPR Stage	
35	Kuthalam TP		DPR Stage	DPRs are under preparation by WAPCOS/ PWD.
36	Thirukattupalli TP		DPR Stage	
37	Thiruvaiyaru TP		DPR Stage	
	Total (35 Nos)			
	Grand Total 37 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 (AS) & Technical Sanction (TS) stage
3	Jayamkondan	0.02	-	
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).	**Proposed** – 10 Nos., Capacity 41 MLD. **Note:** No member unit is in operation without ZLD system.
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.	Consented Quantity for CETPs (KLD)	Status of CETPs	Status of CETPs (existing, constn. & proposed)
1	Trichy	1	7	201.4	Operation	Existing
2	Dindigul	1	49	1517	Operation	Existing
3	Perundurai	1	14	1000	Operation	Existing

4	Ambur	1	49	1150	Operation	Existing
5	Ambur	1	17	330	Operation	Existing
6	Peranambut	1	36	600	Operation	Existing
7	Vaniyambadi	1	110	2000	Operation	Existing
8	Ranipet	1	82	3600	Operation	Existing
9	Ranipet	1	79	1875	Operation	Existing
10	Ranipet	1	40	700	Operation	Existing
11	Melvisharam	1	36	600	Operation	Existing
12	Madhavaram	1	15	400	Operation	Existing
13	Pallavaram	1	144	3000	Being complied	Existing
14	Sivagangai	1	48	49.6	Operation	Existing
15	Ambattur	1	211	200	Being complied	Existing
16	Tiruppur	1	75	7000	Operation	Existing
17	Tiruppur	1	6	180	Operation	Existing
18	Tiruppur	1	29	3555	Operation	Existing
19	Tiruppur	1	12	3520	Operation	Existing
20	Tiruppur	1	18	2750	Operation	Existing
21	Tiruppur	1	60	4785	Operation	Existing
22	Tiruppur	1	28	3748	Operation	Existing
23	Tiruppur	1	69	10758	Operation	Existing
24	Tiruppur	1	4	2250	Operation	Existing
25	Tiruppur	1	17	4950	Operation	Existing
26	Tiruppur	1	23	4500	Operation	Existing
27	Tiruppur	1	12	2700	Operation	Existing
28	Tiruppur	1	8	165	Operation	Existing
29	Tiruppur	1	15	2750	Operation	Existing
30	Tiruppur	1	15	2485	Operation	Existing
31	Tiruppur	1	19	4500	Operation	Existing
32	Tiruppur	1	25	3150	Operation	Existing
33	Tiruppur	1	9	1350	Operation	Existing
34	Perundurai	1	14	2681	Operation	Existing
35	Kanchipuram	1	62	1500	Under closure	Existing
36	Kodaikanal	1	40	850	Operation	Existing
Total		**36**	**1497**	**87350**		

Note:

1. 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 system for their 36 member units. The member units are not in operation.
2. The CETP, **Sivagangai** and member units have been closed by the TNPCB vide Board Proceeding dt:02.03.2021 as the CETP has not fixed the Online Continuous Effluent Monitoring System (OCEMS). The work is under progress. The CETP and member units have been re-opened based on Hon'ble Appellate Authority Interim orders.
3. The CETP, **Pallavaram** has been directed to furnish evaluation study report on the performance of the CETP. The CETP has engaged Anna university, Chennai and the report from Anna University is awaited.
4. The CETP, **Ambattur** has been issued consent to operate order and it is under operation. It has provided Zero Liquid Discharge (ZLD) system. The TNPCB has issued directions under the water (P & C P) Act, 1974 to install OCEMS.

Details of CETPs proposed in the State

Sl. No.	Location	Name of CETPs	CETP Capacity (MLD)	Status
1.	Perundurai	Sree Bhavani Dyeing Cluster Development Limited, Perundurai Taluk, Erode District.	4	1. The Secretary, Ministry of Textiles, GOI, New Delhi addressed vide letter No. 16.06.2021 to the Chief Secretary, Government of Tamil Nadu wherein it has been stated that the funding pattern to the CETPs is under revision for next five years. 2. No member unit is in operation without ZLD system; Other member units are proposed industries only ie. Green sites only.
2.	Perundurai	Kadayampatti CETP Private Limited, Bhavani,Perundurai Taluk, Erode District	6.25	
3.	Perundurai	Kadayampatti Common Reject Management Systems Private Limited (CRMS), Perundurai Taluk, Erode District	1.75	
4.	Erode	Gangapuram CETP Private Limited, Erode Taluk & District	4.5	
5.	Erode	Villarasampatti CETP Private Limited, Erode Taluk & District	4.5	
6.	Erode	M/s. 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- 14,044 **Note**: The MSW of RLB is furnished separately in the dossier below.	ULB- 1421.73
3.	a. Number of facilities	3812 (CMA-1951+DTP-1324 +GCC-537)	431
	b. Installed capacity –TPD	9713.23 (CMA-5594+DTP-1819+GCC-2300.23)	991
	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	7402 (CMA-4790 +DTP-1819+GCC-793)	953
4.	Action plan to bridge gap between Installed	1. It is proposed to increase the segregation, collection and treatment of	

	Capacity and Current Utilization of processing facilities (if Gap > 20%)	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- *138 Nos. (CMA-122 + DTP-4+GCC-12), Capacity* 1649 TPD (CMA-970+GCC-663, 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- **91,16,813 Cum** Total quantity of Legacy Waste biomined	

		upto the month of September 2021- **59,67,756 Cum** Balance legacy waste to be biomined is **31,49,057 Cum.** ***Note-** In 40 ULBs, 100% biomining (**15,88,914 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	5594	Windrow/Vermi composting, Biogas generation	4790	122 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	5418	793	Windrow/Vermi composting, Bio-gas generation	793	12 Nos. of MSW treatment facilities are under constrn.
Total	**14,044**	**9713**		**7402**	

VI. Bio-medical Waste Management (BWM):

S.N	BWM	State	PRS
1.	Total Bio-medical generation:	83.63 T/D	8.446 T/D
2.	No. of Hospitals and Health Care Facilities:	26,458	5,904
3.	Status of Treatment Facility/ CBMWTF:	Total -12 Nos. 10- Facilities under operation 2-Facilities - Issued Closure order by TNPCB for non-compliance. 3-Commonfacilities (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.

Vll. 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)	855	109.9
Treatment/ Measures adopted for reduction or management of plastic waste	Recyclable/ Saleable plastics are sold to authorized vendors. Non-saleable plastics are sent to cement factories for co-incineration and also used as a component for laying roads. Incinerators & pyrolysis plants are under progress for processing non-recyclable dry waste in cluster basis. A plastic Shredding unit is available at each district under SWM Scheme. All the ULBs are enforcing Source segregation of wastes and the saleable fraction of plastic wastes are sold to recyclers and remuneration is paid back to sanitary workers. Apart from that, a total quantity of 1110 MT of single use plastics had been seized and a penalty of Rs.5.48 crore has been levied. The seized plastics are stored at Resource Recovery Centers (RRC) and disposed to Cement industries.	

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 September 2021

Sl.No.	Name of the River	No of Monitoring Locations	BOD mg/l
1	Sarabanga	1	No flow
2	Thirumanimutharu	1	20
3	Vasista	1	No flow
4	Cauvery	19	<2-2.8
5	Bhavani	7	<2
6	Thamirabarani	12	2.3-3.0

. **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 operating firms 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 of Tamil Nadu.
Thirumanimutharu	
Vasista	
Cauvery	
Bhavani	
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	13	8- Check dam 28 Recharge shaft	--
Thamirabarani	7	4	Total - 228 works. Barrages **3** Nos.–Rs.230 Crores.

			Artificial Recharge well **221** Nos and Recharge shaft **4 N**os. -Rs. 88.496 Crores.
Total	**91**	**52**	**281**

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 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-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.
Thirumanimuthaaru	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 September 2021 an E Flow of 0.856 TMC was maintained.
Bhavani	An E flow of 45,939 cusecs (including Irrigation purpose) was maintained in the river Bhavani during the Month of September 2021.
Thamirabarani	An average of 952.01cusecs of water is released into the river in the month of September 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	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.
Thirumanimutharu	
Vasista	There is no proposal at present.
Cauvery	Drone Survey has been completed by M/s.WAPCOS in January 2021. A draft DPR prepared by M/s.WAPCOS has been submitted and is under
Bhavani	

	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:

Directions have been issued to 4 CETPs. Among them one CETP is under closure (Refer item No.IV).

Gist of Report on the progress made on the Polluted River Stretches Tamil Nadu State
Month: September 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 **72 STPs** in operation with treatment capacity of **1670.10 MLD** and in **11 FSTPs 0.324 MLD** is treated. In certain STPs **0.2 % to 62.5%** utilization has been increased during September 2021 and the details are submitted in **annexure-1**.
b.	**Under construction STPs**	**43 STPs (966.8 MLD capacity)** and **41 FSTPs (1.035 MLD capacity)** are under construction and they are at various stages of implementation. Incremental increase of **0.3 to 77.00%** has been achieved during September 2021 in the under construction projects of STPs and the details are furnished as **annexure-2.** In construction of septage management **1.3-23.0 %** increase has been achieved during September 2021 (**Annexure-3)**.
c.	**Proposed STPs**:	**37 STPs** are proposed to fill the gap of treatment of sewage.
4 a.	**Existing MSW treatment** :	**14,044 TPD** of solid waste is generated in the State with treatment capacity of **9713.23 TPD** furnished in **annexure-4**.
b	**Under construction MSW Facilities**:	**138 MSW** facilities are being constructed to a capacity of **1649 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- **91,16,813 Cum** Total quantity of Legacy Waste biomined upto the month of September 2021-**59,67,756 Cum. *Note-**In 40 ULBs, 100% biomining (**15,88,914 Cum**) has been completed.
5 a.	**Existing CETPs**	There are **36 CETPs** existing in the State with a capacity of **87350**

<table>
<tr><td></td><td></td><td>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>26,458 health care units in the State generate 83.63 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:- September 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>No flow</td><td rowspan="6">BOD < 3 mg/l</td></tr>
<tr><td>2</td><td>Thirumanimutharu</td><td>1</td><td>20.0</td></tr>
<tr><td>3</td><td>Vasista</td><td>1</td><td>No flow</td></tr>
<tr><td>4</td><td>Cauvery</td><td>19</td><td><2-2.8</td></tr>
<tr><td>5</td><td>Bhavani</td><td>7</td><td><2</td></tr>
<tr><td>6</td><td>Thamirabarani</td><td>12</td><td>2.3-3.0</td></tr>
</table></td></tr>
<tr><td>10</td><td colspan="2">Reuse of treated water
80.50 MLD of treated waste water is reused for agricultural and industrial purposes</td></tr>
<tr><td>11</td><td colspan="2">Maintenance of ground and surface water quality – PWD</td></tr>
</table>

	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:** 91existing RWH structures along the PRS are provided; 52 Nos. are under progress and 281 Nos. of recharging wells and check dams are proposed. e. **Demarcation of flood plain zones and removal of encroachments**: In the PRS for demarcation of flood plain zones and removal of encroachments drone surveys are proposed for which DPR is under preparation. 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 IN EXISTING STPS TREATMENT/UTILIZATION

Sl.No.	Location	Existing STP capacity (MLD)	Capacity being Utilized (MLD)		Incremental Progress %
			August 21	Sept 21	
	CMWSSB				
1	Perungudi Zone V	12	10.37	10.39	0.20
2	Koyambedu Zone III	60	8.95	9.13	2.0
3	Perungudi Zone-V	54	48.98	50.59	3.2
4	Perungudi Zone-V	60	52.08	53.28	2.3
5	Sholinganallur STP	18	3.49	4.05	13.8
6	CMA				
7	Villupuram (Erumanthangal)	3.50	1.50	1.80	16.70
	Thirupathur	11.43	2.00	2.40	16.70
	Sivagangai	4.92	1.00	2.00	50
	Ariyalur	4.16	1.00	1.20	16.7
	Udumalaipet	7.81	3.75	4.00	6.3
	Salem - Vellakuttai STP	13.00	7.00	8.00	12.5
	Salem - Mankuttai STP	35.00	1.50	4.00	62.50
	Mettur STP-2	0.92	0.14	0.15	6.7
	Mettur STP-3	5.45	2.10	2.20	4.6

Annexure- 2
INCREMENTAL PROGRESS OF STPs UNDER CONSTRUCTION

Sl.No.	Location	Capacity (MLD)	% of Completion		Incremental Progress %
			August 21	Sept 21	
	CMWSSB				
1	Sholinganallur STP	54	87.50	88.0	0.60
2	Kodungaiyur STP Zone - I	120	49.10	52.85	7.10
3	Nesapakkam STP Zone - IV	50	36.17	44.07	18.0
4	Perungudi STP Zone - V	60	36.55	42.87	14.74
5	Nesapakkam TTUF	10	86.80	87.00	0.23
6	Perungudi TTUF	10	62.50	63.00	0.30
7	CRRT, Nungambakkam MSTP	1.2	65.80	66.20	0.60
8	CRRT, Langs Garden MSTP	10	33.20	34.66	4.2

9	CRRT, Todd Hunter Nagar MSTP	0.4*4=1.6	10.0	15.00	33
10	CRRT, Kottupuram MSTP	0.3*2=0.6	7	30.00	77
	CMA				
	Karaikudi	16.00	75	81	7.4
	Pollachi	11.25	96	97	1.0
	Sattur	4.65	87	88	1.2
	Tiruppur	15.00	60	62	3.2
	Tiruppur (Sarkarperipalayam)	36.00	70	71	1.4
	Tiruppur (Chinnandipalayam)	20.00	70	72	1.4
	Tuticorin	28.00	90	95	5.3
	Vellore	50.00	61	63	1.6
	Tiruchirapalli-STP-1	30.00	52	52	-
	Tiruchirapalli-STP-2	37.00	66	73	10
	Mettupalayam	8.65	97	98	1.0
	DTP				
	Thiruporur TP	4.02	64	65.48	2.3
	MelachokanathapuramTP	2.00	90	96	6.3

Annexure-3
INCREMENTAL PROGRESS OF SEPTAGE MANAGEMENT UNDER CONSTRUCTION

Sl.No.	Location	Capacity (MLD)	% of Completion		Incremental Progress %
			August 21	Oct 21	
	CMA				
1	Aruppukottai	0.04	90	95	5.3
	DTP				
2	Pennagaram TP	0.015	62	80	23
3	Chengam TP	0.020	96	98	2
4	Pennadam TP	0.010	72	80	1.3
5	Alangayam TP	0.015	95	98	3.1

Annexure-4

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

Sl. No	Details	Mar.21	Apr.21	May 21	Jun21	July21	Aug.21	Sept.21	Incremental increase (%) (August to Sep)
1	MSW generation (TPD)	13,726	13,726	12,953	13,212	13,753	13,820	14,044	**1.6**
2	MSW treatment capacity (TPD)	9177.2	9200.37	9205.37	9454.26	9651.23	9693.23	9713.23	**0.2**
3	MSW utilization (TPD)	8300.2	8356.37	8374.37	7014	7170	7220	7402	**2.5**
	Total	31,203.5	41,282.74	30,532.74	29,680.26	30,574.2	30,733.23	31,159.2	**1.4**

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Annexure-I

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)	**51 Nos & 905.28**	**12Nos & 260.79**
2	Capacity Utilization of existing STPs	**385.02**	**132.20**
3	MLD of sewage being treated through Alternate technology	**Nil**	
4	Gap in Treatment Capacity in MLD	**654.70**	**114.82**
5	No. of Operational STPs	**51 nos**	**12 nos**
6	No. of Complying STPs	**51 nos**	**12 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	2.60	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	5.00	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	1.20	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
Total	**51 nos**	**905.28**	**385.02**		

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	90%	-	Nov-21
	Coimbatore – Kuruchi & kuniyamuthur	30.53	86%	-	March-23
3	Karaikudi	16.00	81%	-	Dec-21
4	Nagercoil	17.66	90%	-	Dec-21

S.No	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
5	Pollachi	11.25	97%	-	Dec-21
6	Rajapalayam	21.85	33%	-	March-22
7	Rameshwaram	4.08	37%	-	March-22
8	Sattur	4.65	88%	-	Dec-21
9	Tambaram	30.00	97%	4650	Dec-21
10	Tiruppur	15.00	62%	-	June-22
	Tiruppur (Sarkarperiyapalayam)	36.00	71%		Feb-22
	Tiruppur (Chinnandipalayam)	20.00	72%		Feb-22
11	Tuticorin	28.00	95%	-	Nov-21
12	Vellore	50.00	63%	-	Dec-21
13	Tindivanam	11.44	Preliminary work under progress		Dec-23
14	Villupuram Added Area	4.56			Dec-23
15	Pammal & Anagaputhur	27.00			March-23
PRS (4 Nos)					
16	**Trichirapalli-STP1**	**30.00**	**52%**	**-**	**Dec-21**
	Trichirapalli-STP2	**37.00**	**73%**	**-**	**April-22**
17	**Mettupalayam**	**8.65**	**98%**	**-**	**Nov-21**
18	**Sathiyamanagalam**	**4.08**	**100%**	**-**	**Effecting HSCs under progress & Under Trial Run**
Total (22 nos)		**500.46**			

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	Tender Received & Work to be commenced	

2	Tirunelveli	10.00	Tender Received & Negotiation under progress

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

(i) Completed - 9 Nos

(ii) Under construction – 30 Nos

(iii) Work to be commenced – 1 No

(iv) Tender stage -1 No

(v) AS Stage -2 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	I&D Work DPR under preparation
3	Cauvery	Kulithalai	3	I&D Work DPR under preparation
4	Cauvery	Bhavani	6	I&D Work DPR under preparation
5	Tamirabarani	Ambasamudram	6	I&D Work DPR under preparation
6	Tamirabarani	Vickaramasingapuram	12	I&D Work DPR under preparation
7	Vassista	Attur	3	I&D Work DPR under preparation
8	Vassista	Narasingapuram	3	I&D Work DPR under preparation
9	Sarabanga	Idappadi	22	I&D Work DPR under preparation

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 September 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	719	2768	2680	172	637	612
d.	Biomethanation	47	189	140	13	54	48
e.	MRF/RRC	228	975	975	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	**1951**	**5594**	**4790**	**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.)	122 Nos	15 Nos
	Details of MSW treatment facilities under construction (capacity, TPD)	970 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 1176 MT of single use plastics had been seized and a penalty of Rs.5.80 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 176 MT of single use plastics had been seized and a penalty of Rs.1.58 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**		

FSTPs – progress updates						
No	**Status**	**Name of the ULBs**	**Capacity in KLD**	**% of physical progress**	**Probable date of completion**	**Number of FSTPs**
1	Completed & trial run ongoing	Kangeyam	20	100%	-	12
2		Kovilpatti	40	100%	-	
3		Tirumangalam	40	100%	-	
4		Dharapuram	30	100%	-	
5		Sengottai	20	100%	-	
6		Thuraiyur	20	100%	-	
7		Edappadi	30	100%	-	
8		Vickramasingapuram	30	100%	-	
9		Kadayanallur	40	100%	-	
10		Pattukottai	30	98%	Oct-21	
11		Tiruchengode	40	95%	Sep-21	
12		Melur	20	95%	Oct-21	
13	Completed & trial run to be initiate	Ambasamudiram	30	100%	Oct-21	4
14		Paramakudi	40	100%	Oct-21	
15		Mannargudi	30	98%	Oct-21	
16		Aruppukottai	40	95%	Oct-21	
17	61% to 90%	Sankarankoil	30	90%	Nov-21	12
18		Tenkasi	40	85%	Nov-21	
19		Kulithalai	20	85%	Nov-21	
20		Srivilliputhur	30	80%	Nov-21	
21		Vandavasi	20	80%	Oct-21	
22		Sirkali	20	75%	Nov-21	
23		Cumbum	40	75%	Dec-21	
24		Thiruthuraipoondi	10	75%	Dec-21	
25		Koothanallur	20	72%	Oct-21	
26		Padmanabhapuram	20	70%	Dec-21	
27		Gudiyatham	30	70%	Dec-21	
28		Virudhachalam	40	68%	Nov-21	
29	31% to 60%	Vedaranyam	20	60%	Dec-21	8
30		Aranthangi	20	60%	Dec-21	
31		Attur	40	45%	Jan-22	
32		Puliangudi	40	42%	Nov-21	
33		Gudalur	20	41%	Dec-21	
34		Chengalpattu	20	41%	Dec-21	
35		Walajapet	30	41%	Dec-21	
36		Keelakarai	20	40%	Dec-21	
37	0% to 30%	Coonoor	10	18%	Mar-22	4
38		Sivakasi	40	15%	Mar-22	
39		Colachel	40	10%	Mar-22	
40		Manapparai	20	-	-	
41	On Hold	Nellikuppam	20	0%		2
42		Panruti	30	0%		
43	Work Initiated	Vaniyambadi	30	0%	Sep-22	1
44	Tendered (18.11.2021)	Kuzhithurai	40	0%		1
45	Administrative Sanction(AS) & Technical Sanction(TS) stage	Usilampatti	20	-	-	2
46		Jayamkondan	20	-	-	
						46

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 (Chennai) in September 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)	**17982 (MLD – 599.40 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 – September 2021

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
1	Nesapakkam STP Zone - IV	23	10.76	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	23.68	Operational	
3	Kodungaiyur STP Zone II	80	77.30	Operational	
4	Kodungaiyur STP Zone I	80	78.03	Operational	
5	Perungudi STP Zone - V	12	10.39	Operational	
6	Koyambedu	60	9.13	Operational	

	STP Zone – III				
7	Kodungaiyur STP Zone I& II	110	107.49	Operational	
8	Nesapakkam STP Zone - IV	40	29.93	Operational	
9	Perungudi STP Zone - V	54	50.59	Operational	
10	Perungudi STP Zone – V	60	53.28	Operational	
11	Nesapakkam STP Zone - IV	54	50.67	Operational	
12	Koyambedu STP Zone – III	120	94.10	Operational	
13	Sholinganallur STP(phase I)	18	4.05	Operational	
Total		**745**	**599.40**		

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	88.00		Dec 2021 (36+18) 18MLD Commissioning work under progress
2	Thiruvottriyur STP	31	100.00		Trail Run, Improvement and additional works in progress
3	Kodungaiyur STP Zone - I	120	52.85		Feb 2022
4	Kodungaiyur STP Zone - II	120	66.38		Feb 2022
5	Nesapakkam STP Zone - IV	50	44.07		Aug 2022
6	Perungudi STP Zone - V	60	42.87		Aug 2022
7	Nesapakkam TTUF	10	87.00		Mar 2022
8	Perungudi TTUF	10	63.00		Mar 2022
9	CRRT - Chetpet MSTP	1	95.00		Nov 2021
10	CRRT- Nungambakkam MSTP	1.2	66.20		Dec 2021

11	CRRT- Langs Garden MSTP	10	34.66		May 2022
12	CRRT - Todd Hunter Nagar MSTP	0.4*4=1.6	15.00		May 2022
13	CRRT - Kotturpuram MSTP	0.3*2=0.6	30.00		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 September 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	5418			
3	**Existing MSW processing facilities**	**Total No.**	**Installed Capacity (TPD)**	**Utilization Capacity (TPD)**	**Remarks**
a.	Windrow Compost	2	100	79	
b.	Vermi Compost	0	0	0	
c.	Decentralized pit composting	268	836.97	371	213+55(MCC- 55 nos Completed)=268
d.	Biomethanation	6	22	11	
e.	MRF/RRC	204	510	123	
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	162	Incinerator- 2 nos not functioning due to TNPCB CTE/CTO not obtained (82+52+8+20=162)
g.	Waste to Energy 1. Bio-gas	49	21.26	7.0	
	2. Bio-CNG	1	100	40	
	Total	**537**	**2300.23**	**793**	
h	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)**	
		2 no (400 each)	800	375	
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			
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.)	12			Bio-CNG 6nos -100 TPD each Pyrolysis 2nos -20TPD each Incinerator 1 no - 5TPD MCC-3Nos-17.4

	Details of MSW treatment facilities under construction (capacity, TPD)	663	

	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	5418	
	Total MSW processed in TPD	#REF!	
	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	1168	
	Proposed MSW Facilities & Completion Timeline		
	Status of ULB/RLB wise SWM	**Tamil Nadu State**	
VIII	**Plastic Waste Management:**		
1	Total Plastic Waste generation:TPD	**221**	
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**		

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

Overall status of the State:

I. Total Population: 8074608

II. Estimated Sewage Generation (MLD):452.18 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)	**7 (19.874 MLD)**	**-**
2	Capacity Utilization of existing STPs	**7.554 MLD**	**-**
3	MLD of sewage being treated through Alternate technology	**3 MLD**	**-**
4	Gap in Treatment Capacity in MLD	**421.752**	**12.775**
5	No. of Operational STPs	**7**	**-**
6	No. of Complying STPs	**7**	**-**
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	3.90	1.40	Operational	Trial Run
4	Palanichettypatti TP	2.80	2.80	Operational	Complied
5	Thirumazisai TP	3.00	1.00	Operational	Complied
6	Ulunderpettai TP	3.15	-	Operational	Trial Run
7	Velankanni TP	2.33		Operational	Trial Run
		19.82	**7.50**		

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	0.03	0.03	Operational	
		0.054	**0.054**		
TOTAL		**19.874**	**7.554**		

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	80% completed	5028/6000	31.12.2022
2	Thiruporur TP	4.02	65.48% Completed(UGSS)	3936/4479	31.03.2022
3	Ponneri TP	6.52	47% completed	2056/7605	31.12.2022
4	Manachanallur TP	6.41	99% completed	3652/3652	31.10.2021
5	S.Kannanur TP			2320/2320	
6	Vallam TP	2.35	97% completed	3520/3787	31.12.2021
7	Perundurai TP	3.14	96% completed	3533/5700	30.11.2021
8	Melachokanathapuram TP	2.00	96% completed	4438 / 4500	30.11.2021
	Total	**32.94**		**28483/38043**	
Septage Management					
11	Mudukulathur TP	0.015	95% completed	-	30.11.2021
12	Jalakandapuram TP	0.015	98% completed	-	31.12.2021
13	Pennagaram TP	0.015	80% completed	-	15.11.2021
14	Kaveripattinam TP	0.015	82% completed	-	31.12.2021
15	Chengam TP	0.020	98% completed	-	30.11.2021
16	Kurumbalur TP	0.010	70% completed	-	30.11.2021
17	Pennadam TP	0.010	80% completed	-	31.12.2021
18	Alangayam TP	0.015	98% completed	-	30.11.2021
Total		**0.115**			

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	-	-	DPR Stage	-	-	PWD	-	DPR is under preparation by WAPCOS/ PWD.
2	Sirugamani TP	-	-		-	-	PWD	-	
3	Mohanur TP	-	-		-	-	PWD	-	
4	Velur TP	-	-		-	-	PWD	-	
5	Punjai Pugalur TP	-	-		-	-	PWD	-	
6	Bhavani sagar TP	-	-		-	-	PWD	-	
7	Sirumugai TP	-	-		-	-	PWD	-	
8	Madathukulam TP	-	-		-	-	PWD	-	
9	Omalur TP	-	-		-	-	PWD	-	
10	Poolampatty TP	-	-		-	-	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 31.10.2021
11	Pethanaickenpalayam TP	-	-		-	-	DTP	-	
12	Yethapur TP	-	-		-	-	DTP	-	
13	Belur TP	-	-		-	-	DTP	-	
14	Srivaikundam TP	-	-		-	-	DTP	-	
15	Authoor TP	-	-		-	-	DTP	-	
16	Eral TP	-	-		-	-	DTP	-	
17	Alwarthirunagari TP	-	-		-	-	DTP	-	
18	Then Thiruperai TP	-	-		-	-	DTP	-	
19	Arumuganeri TP	-	-		-	-	DTP	-	
20	Mukkudal TP	-	-		-	-	DTP	-	
21	Gopalasamudram TP	-	-		-	-	DTP	-	
22	Kallidaikurichi TP	-	-		-	-	DTP	-	
23	Cheranmahadevi TP	-	-		-	-	DTP	-	
24	Veeravanallur TP	-	-		-	-	DTP	-	
25	Patthamadai TP	-	-		-	-	DTP	-	
26	Mela Seval TP	-	-		-	-	DTP	-	
27	Kuthalam TP	-	-		-	-	PWD	-	DPR is under preparation by WAPCOS/ PWD.
28	Thirukattupalli TP	-	-		-	-	PWD	-	
29	Thiruvaiyaru TP	-	-		-	-	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	72.00	DPR stage-Comprehensive UGSS in Poonamallee cluster A with Mangadu Town Panchayat and 12 Village Town Panchayat	-
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)	DPR is prepared by TNUIFSL. TNUIFSL has initiated action for calling of Tenders for appointment private consultant for preparation of DPR
3	Madampakkam			
4	Peerkankaranai		DPR has to be prepared through TNUIFSL on cluster basis	
5	Perungalathur		DPR has to be prepared through TNUIFSL on cluster basis	
6	Thiruneermalai		DPR as to be prepared through TNUIFSL by cluster basis	
Total				

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)

IV. 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**

V. Bio-medical Waste Management:

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

VI. 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

VII. 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

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

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

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

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

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

XIII. Ground water regulation:

XIV. Good irrigation practices being adopted by the State:

XV. Rain Water Harvesting:

XVI. Demarcation of Floodplain and removal of illegal encroachments:

XVII. Maintaining minimum e-flow of river:

XVIII. Plantation activities along the rivers:

XIX. Development of biodiversity park:

XX. Reuse of Treated Water:

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

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

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

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

***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 :August Prepared By DTP

S.NO.	Details	TN State	PRS
I	Total Population:	8074608	451846
II	Estimated Sewage Generation (MLD)	452.18 MLD	12.775 MLD
III	**Details of Sewage Treatment Plant:**		
1a.	Existing no. of STPs/FSTP if any	9 (7 STP + 2 FSTP)	-
1b	Treatment Capacity (in MLD)	19.874 MLD	-
2	Capacity Utilization of existing STPs (MLD)	7.554 MLD	-
3	MLD of sewage being treated through Alternate Technology	3 MLD	-
4	Gap in Treatment Capacity in MLD	421.752 MLD	12.775 MLD
5	No. of Operational STPs	7	-
6	No. of Complying STPs	7	-
7	No. of Non-complying STPs	-	-
	Details of Under construction Sewage Treatment Plant:		
1	STP -Number	7	-
2	STP Capacity (MLD)	32.94	-
3	FSTP -Number	8	-
4	FSTP -capacity (MLD)	0.115	-
5	Status of I&D or House sewer connections	28483/ 38043	-

	Details of Proposed STP	TN State	PRS
1	STP/FSTP Number	-	-
2	STP/FSTP Capacity	-	-
3	No. of STPs under DPR	6	29
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	-	-

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 September 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**
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**		

1398
21 OCT 2021
022514

CHAIRPERSON TAMILNADU POLLUTION CONTROL BOARD
18 OCT 2021
CHENNAI-32

From
The Director,
Rural Development and Panchayat Raj,
Panagal Building, Saidapet,
Chennai 600 015.

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

Roc. No.16503/2018/SBM(G)-3 dt.5. 10.2021

Sir,

Sub: TNPCB - Environment Control - Hon'ble National Green Tribunal OA No. 673/2018 - "Rejuvenation of Polluted River Stretches" - Monthly Progress for the month of September -2021 – Sent - Regarding.

Ref:
1. Additional Chief Secretary to Government, Rural Development and Panchayat Raj, Letter No.3870/CGS.1/2020-3, Dated:25.07.2020.
2. Reports received from the Districts.

*****

I invite your kind attention to the references cited.

In the reference 1st cited, Government has requested to send an Action Taken Report in the prescribed format (as requested by the Central Pollution Control Board / Government of India) to the Chairman, Tamil Nadu Pollution Control Board, so as to consolidate the same for onward transmission to the Central Pollution Control Board / Government of India for compliance of the order of the National Green Tribunal in O.A.673 of 2018.

DD Lab / Water

In this connection, a consolidated monthly progress report for the month of September -2021 in the prescribed format is sent herewith for kind reference and information.

Encl: Format.

5/10/2021
For Director

Copy:
Principal Secretary to Government,
Rural Development and Panchayat Raj Department,
Secretariat, Chennai – 09.

5/10/2021

Rural Development and Panchayat Raj.

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 Month of September2021

Overall status of the State:

I. Total Population: Rural Population separately: 4,04,86,223

II. Estimated Sewage Generation (MLD): 1130

III. Details of Sewage Treatment Plant:

S.No.	Details of Sewage Treatment Plant	State	PRS
1	Existing no. of STPs and Treatment Capacity (in MLD)	-	-
2	Capacity Utilization of existing STPs	-	-
3	MLD of sewage being treated through Alternate technology	**749**	**0**
4	Gap in Treatment Capacity in MLD(Grey water)	**381**	**0**
5	No. of Operational STPs	-	-
6	No. of Complying STPs	-	-
7	No. of Non-complying STPs	-	-

*Gap will be addressed by construction of individual soakpit in phased manner, priority will be given to water body areas.

Details of each existing STP in the State & PRS

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

Details of under construction STPs in the State & PRS

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

Details of proposed STPs in the State & PRS

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

Details of proposed STPs in the State

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

IV. Details of Industrial Pollution:

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

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

V. Solid Waste Management:

- Total number of Rural Local Bodies and their Population: 12525 Village Panchayats, Population 4,04,86,223
- Current Municipal Solid Waste Generation (State & PRS): 1965 TPD & 1.232 TPD

- Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), biomethanation, MRF etc **(State & PRS) : 12525 & 31**
- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%) **(State & PRS)**
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction) **(State & PRS)**
- Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source **(State & PRS) : 12525 Village Panchayats & 31 Village Panchayats.**
- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology) **(State & PRS) MCC – 321&1** (proposed)
- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills- nil
- No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers- nil
- No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers.

Status of ULB wise Management of Solid Waste

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

VI. Bio-medical Waste Management:

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

VII. Hazardous Waste Management:

- Total Hazardous Waste generation (State & PRS):
- No. of Industries generating Hazardous waste

- Treatment Capacity of all TSDFs
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated
- Details of on-going or proposed TSDF

VIII. **Plastic Waste Management:**

- Total Plastic Waste generation (State & PRS):
- Treatment/ Measures adopted for reduction or management of plastic waste: Plastic Shredding units available at 1 per Districts provided under SWM Scheme.

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

Annexure-IV

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 **September 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.

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 **September 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 June 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.

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	228 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 **952.01 cusecs** of water is released into the river in the month of **September 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.

20/10/21

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 **September 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.

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
13	Check dam – 8 Nos. Recharge shaft – 28 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 **45939** cusecs (including Irrigation purpose) was maintained in the river Bhavani during the month of **September 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.

20/10/21

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 **September 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.

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 **September 2021** an E Flow of **0.856** 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.

20/10/21

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 **September 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.

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.

20/10/21

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 **September 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.

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.

20/11/21

for Chief Engineer (SG & SWRDC)

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.

20/10/21

for Chief Engineer (SG & SWRDC)