TAMIL NADU POLLUTION CONTROL BOARD

From
Dr. S.Selvan M.E, M.B.A, Ph.D,
Member Secretary,
Tamil Nadu Pollution Control Board,
Guindy
Chennai-600 032.

To
The Additional Chief Secretary to Govt,
Environment and Forests Department,
Government of Tamil Nadu,
Secretariat,
Chennai- 600 009.

Lr.No.TNPCB/DDL/F-6849/PRS-MPR/2019/dated: 19.04.2021.

Sir,

Sub: TNPCB-For ensuring compliance to the Hon'ble NGT order dated 06.12.2019 in O.A No.673 of 2018-Revised Monthly Progress Report for the month of February - 2021 on Action Plans for the Polluted River Stretches in Tamil Nadu to the Central Monitoring Committee, NMCG, Ministry of Jal Shakti-Submitted-Regarding.

Ref: 1) CPCB Lr.No.F.No.A-14011/OA 673/2020-WQM-I/ 12178/ dt.4.2.2020.
2) Office Memorandum-Legal/O.A 673 of 2018/ NMCG/2019/ dt.05.02.2020.
3) E&F D.O. Letter No.23238/EC.1/2018-28 dated 09.07.2020.
4) Office Memorandum-Legal/O.A-673 of 2018/ NMCG/ 2020/ dt.08.10.2020.

With reference to the Memorandum 4th cited, the Monthly Progress Report for the month of February 2021 on Action Plans for the Polluted River Stretches in Tamil Nadu in the prescribed format is enclosed herewith 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, and New Delhi with a copy to Central Pollution Control Board, New Delhi.

Encl: As above

Sd/-S.Selvan
Member Secretary

R. Thanasekaran
Deputy Director (Labs)

20/4/21

Copy to: File

No. 76, MOUNT SALAI, GUINDY, CHENNAI - 600 032.
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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)

February 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: February 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): 388.38 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)	71** 1629.18	13 264.87
2	Capacity Utilization of existing STPs	967.51***	128.1
3	MLD of sewage being treated through Alternate technology	752	1.56
4	Gap in Treatment Capacity in MLD	1404.98	121.9
5	No. of Operational STPs	71	12
6	No. of Complying STPs	71	12
7	No. of Non-complying STPs	Nil	Nil
8	Existing No. and Capacity of FSTP (in MLD)	11 0.324	1

Note: *The Chennai Metro Water Supply and Sewerage Board(CMWSSB) has corrected the estimated sewage generation based on the water consumption of the population irrespective of the CMWSSB water supply for different areas of Greater Chennai Corporation (GCC) and the quantity for entire population is worked out as **680 MLD**, resulting in total estimated sewage generation of **3786.16 MLD** in TN.

**All works completed at 2 STPs of Ulundurpettai TP & Velankanni TP and commissioned; the same have been included with the existing STPS totaling to 71 Nos.

*** Due to summer season, the inflow of sewage of Chennai city has been decreased, hence the utilization capacity is also reduced.

Details of each existing STP in Tamil Nadu & PRS

No.	Location	Existing STP Capacity utilized (MLD)	Capacity being utilized (MLD)	Operational Status of STP	Compliance Status of STP
	CMWSSB				
1	Nesapakkam STP Zone –IV	23	16.77	Operational	Complied
2	Koyambedu STP Zone – II	34	28.48	Operational	Complied
3	Kodungaiyur STP Zone II	80	70.61	Operational	Complied
4	Kodungaiyur STP Zone I	80	72.21	Operational	Complied
5	Perungudi STP Zone - V	12	10.45	Operational	Complied
6	KoyambeduSTP Zone - III	60	15.28	Operational	Complied
7	Kodungaiyur STP Zone I& II	110	94.09	Operational	Complied
8	Nesapakkam STP Zone – IV	40	36.25	Operational	Complied
9	Perungudi STP Zone – V	54	46.64	Operational	Complied
10	Perungudi STP Zone – V	60	57.81	Operational	Complied
11	Nesapakkam STP Zone – IV	54	53.21	Operational	Complied
12	Koyambedu STP Zone – III	120	79.77	Operational	Complied
13	Sholinganallur STP	18	4.15	Operational	Complied
Total (13 Nos)		**745**	**589.10**	.	
CMA					
14	Coimbatore- 1	70.00	35.00	Operational	Complied
15	Coimbatore- 2	60.00	5.00	Operational	Complied
16	Vellore	10.28	7.50	Operational	Complied
17	Dindigul	13.65	3.00	Operational	Complied
18	Avadi	4.00	2.50	Operational	Complied
19	Madurai-1	125.00	24.00	Operational	Complied
20	Madurai-2	45.70	15.00	Operational	Complied
21	Thanjavur	28.05	14.15	Operational	Complied
22	Tiruppur	15.00	8.50	Operational	Complied
23	Cuddalore	12.25	6.50	Operational	Complied
24	Kanchipuram	14.70	14.70	Operational	Complied
25	Maraimalai Nagar	2.20	2.20	Operational	Complied
26	Pallavapuram	(CMWSSB STP 115@Perungudi)		Operational	Complied
27	Tiruvallur	6.20	4.00	Operational	Complied
28	Chidambaram	9.44	3.00	Operational	Complied
29	Thiruvannamalai	8.70	4.00	Operational	Complied
30	Viluppuram – Kakuppam	9.0	6.00	Operational	Complied
31	Viluppuram - Erumanthangal	3.50	1.50	Operational	Complied
32	Arakkonam	11.04	2.00	Operational	Complied
33	Thirupathur	11.43	2.00	Operational	Complied
34	Bodinayakkanur	12.08	4.00	Operational	Complied
35	Chinnamanur	3.99	3.72	Operational	Complied
36	Periyakulam	5.47	4.00	Operational	Complied
37	Ramanathpuram	7.00	5.80	Operational	Complied
38	Rasipuram	6.96	1.80	Operational	Complied
39	Theni-Allinagaram	12.05	9.00	Operational	Complied

40	Dharmapuri	4.86	3.50	Operational	Complied
41	Karur	15.00	6.50	Operational	Complied
42	Krishnagiri	12.34	7.80	Operational	Complied
43	Namakkal	5.00	5.00	Operational	Complied
44	Nagapattinam STP-1	9.63	4.00	Operational	Complied
45	Nagapattinam STP-2	2.69	1.00	Operational	Complied
46	Tiruvarur	6.92	4.10	Operational	Complied
47	Ariyalur	4.16	1.00	Operational	Complied
48	Pudukkottai	10.62	6.00	Operational	Complied
49	Perambalur	4.20	3.60	Operational	Complied
50	Udhagamandalam	5.00	4.00	Operational	Complied
51	Udumalaipet	7.81	3.75	Operational	Complied
52	Virudhunagar	7.65	3.80	Operational	Complied
53	Tiruchirappalli	58.00	58.00	Operational	Complied
54	Salem - Vellakuttai STP	13.00	7.00	Operational	Complied
55	Salem - Anaimedu STP	6.00	4.00	Operational	Complied
56	Salem - Mankuttai STP	35.00	1.50	Operational	Complied
57	Salem - Vandipettai STP	44.00	1.00	Operational	Complied
58	Tirunelveli	24.20	8.50	Operational	Complied
59	Erode	50.55	27.00	Operational	Complied
60	Mettur STP-1	0.82	0.5	Operational	Complied
61	Mettur STP-2	0.92	0.14	Operational	Complied
62	Mettur STP-3	5.45	2.10	Operational	Complied
63	Kumbakonam	17.00	12.50	Operational	Complied
64	Mayiladuthurai	5.85	5.85	Operational	Complied
	Total - 51 Nos.	**864.36**	**371.01**		
	DTP				
65	Mamallapuram TP	2.34	1.00	Operational	Complied
66	Orathanadu TP	2.30	1.30	Operational	Complied
67	Thiruchendur TP	3.90	1.40	Trial Run	Being complied
68	Palanichettypatti TP	2.80	2.80	Operational	Complied
69	Thirumazisai TP	3.00	1.00	Operational	Complied
70	Ulunderpettai TP	3.15	-	Trial Run	Being complied
71	Velankanni TP	2.33	-	Trial Run	Being complied
	Total (7 Nos)	**19.82**	**7.50**	Due to summer season, the inflow of sewage of Chennai city has been decreased, hence the utilization capacity is also reduced.	
	Grand Total (71 Nos)	**1629.18**	**967.51**		

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	Operational	Complied
2	Kovilpatti	0.04	0.04	Operational	Complied
3	Tirumangalam	0.04	0.04	Operational	Complied
4	Dharapuram	0.03	0.03	Operational	Complied
5	Sengottai	0.02	0.02	Operational	Complied
6	Thuraiyur	0.02	0.02	Operational	Complied
7	Vickramasingapuram	0.03	0.03	Operational	Complied
8	Edappadi	0.03	0.03	Operational	Complied
9	Kadayanallur	0.04	0.04	Operational	Complied
	Total 9 FSTPs	**0.27**	**0.27**	Operational	Complied
	DTP				
1.	Karunguzhi	0.024	0.024	Operational	Complied
2.	Periyanaikanpalayam	0.03	0.03	Operational	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	86		June 2021
2	Thiruvottriyur STP	31	100		Trial run
3	Kodungaiyur STP Zone - I	120	34		Feb 2022
4	Kodungaiyur STP Zone - II	120	37.55		Feb 2022
5	Nesapakkam STP Zone - IV	50	30		Feb 2022
6	Perungudi STP Zone - V	60	24		Feb 2022
7	Nesapakkam TTUF	10	77		Mar 2021
8	Perungudi TTUF	10	56		Mar 2021
9	Chennai River Restoration Trust - Modular STPs at various locations	15			
Total (9 Nos.)		**470**			
CMA					
10	Ambur	16.71	Land handed over on 26.02.21, design work is in progress & will be completed by Dec.22		
11	Avadi	36.00	90%	-	June-21
12	Coimbatore - Nanjudapuram	40.00	82%	-	June-21
13	Coimbatore – Kuruchi & kuniyamuthur	30.53	53%	-	Jan-22

14	Karaikudi	16.00	74%	-	June-21
15	Nagercoil	17.66	90%	-	June-21
16	Pollachi	11.25	88%	-	June-21
17	Rajapalayam	21.85	6%	-	March 22.
18	Rameshwaram	4.08	37%	-	Dec'21 (Work stopped due to Hon'ble High Court Stay)
19	Sattur	4.65	81%	-	June-21
20	Tambaram	30.00	97%	3930	June-21
21	Tiruppur	15.00	40%		June-22
22	Tiruppur (Sarkarperipalayam)	36.00	60%		Feb-22
23	Tiruppur (Chinnandipalayam)	20.00	60%	-	Feb-22
24	Tuticorin	28.00	65%	-	June-21
25	Vellore	50.00	45%	-	June-21
26	Tindivanam	11.44	Preliminary work is under progress		Dec-23
27	Villupuram Added Area	4.56			Dec-23
28	Tiruchirapalli-STP-1	30.00	52%	-	Dec-21
29	Tiruchirapalli-STP-2	37.00	41%	-	Dec-21
30	Mettupalayam	8.65	92%	-	June-21
31	Sathiyamangalam	4.08	100%	-	
Total (21 Nos)		**473.46**			
DTP					
31	Sriperumbudur TP	8.50	80%	5028/6000	
32	Thiruporur TP	4.02	64%	3325/4479	
33	Ponneri TP	6.52	42%	1891/7605	
34	Manachanallur TP	6.41	98%	3652/3652	
35	S.Kannanur TP			2320/2320	
36	Vallam TP	2.35	90%	3315/3787	
37	Perundurai TP	3.14	93%	3503/3653	
38	MelachokanathapuramTP	2.00	68%	2920/4500	
	Total (8 Nos)	**32.94**		25954/35996	
	Grand Total (38 Nos)	**976.4**			

Details of under construction FSTPs in Tamil Nadu

Sl.No.	Location	Capacity of the plant (MLD)	Physical Progress in %	Completion Timeline
	CMA			
	33 Locations	0.93	At various stages	--
	DTP			
1	Mudukulathur TP	0.015	92%	--
2	Jalakandapuram TP	0.015	95%	--
3	Pennagaram TP	0.015	35%	--
4	Kaveripattinam TP	0.015	70%	--

5	Chengam TP	0.020	95%	--
6	Kurumbalur TP	0.010	67%	--
7	Pennadam TP	0.010	60%	--
8	Alangayam TP	0.015	85%	--
	Total	**0.115**		
	Grand Total (41 Nos)	**1.045**		

Details of proposed STPs in Tamil Nadu State

No.	Locations	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	
	CMA			
1	Pammal & Anagaputhur	27.00	Tender Received & Work to be commenced	
	PRS (2 Nos.)			
2	Trichirapalli	7.50	Tender Received & Work to be commenced	
3	Tirunelveli	10.00		
	Total (3 Nos.)	**44.5**		
	DTP			
4	Mangadu		DPR stage-Comprehensive UGSS in Poonamallee cluster A with Mangadu Town Panchayat and 12 Village Town Panchayat	
5	Chitlapakkam		Detailed project Report prepared under TNUISFL for Sembakkam cluster basis with 13 local bodies (Fund assistance from Project Development Grant Fund)	
6	Madampakkam			
7	Peerkankaranai		DPR is to be prepared through TNUISFL on cluster basis	
8	Perungalathur			
9	Thiruneermalai			
PRS			**Status of Project**	Remarks
10	Musiri TP		DPR Stage	DPR is under preparation by WAPCOS/ PWD.
11	Sirugamani TP		DPR Stage	
12	Mohanur TP		DPR Stage	
13	Velur TP		DPR Stage	
14	Punjai Pugalur TP		DPR Stage	
15	Bhavani sagar TP		DPR Stage	
16	Sirumugai TP		DPR Stage	
17	Madathukulam TP		DPR Stage	
18	Omalur TP		DPR Stage	
19	Poallampatty TP		DPR Stage	DPR is under preparation by TWIC
20	Pethanaickenpalaya TP		DPR Stage	
21	Yethapur TP		DPR Stage	
22	Belur TP		DPR Stage	
23	Srivaikundam TP		DPR Stage	
24	Authoor TP		DPR Stage	
25	Eral TP		DPR Stage	
26	Alwarthirunagari TP		DPR Stage	
27	Then Thiruperai TP		DPR Stage	
28	Arumuganeri TP		DPR Stage	
29	Mukkudal TP		DPR Stage	
30	Gopalasamudram TP		DPR Stage	

31	Kallidaikurichi TP		DPR Stage	
32	Cheranmahadevi TP		DPR Stage	
33	Veeravanallur TP		DPR Stage	
34	Patthamadai TP		DPR Stage	
35	Mela Seval TP		DPR Stage	
36	Kuthalam TP		DPR Stage	DPR is under preparation by WAPCOS/ PWD.
37	Thirukattupalli TP		DPR Stage	
38	Thiruvaiyaru TP		DPR Stage	
	Total (35 Nos)			
	Grand Total (38 Nos)			

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 ZLD and there is no discharge into the water bodies	1,770 Industrial units provided ZLD 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. Capacity - 87.35 MLD Proposed – 10 Capacity 41 MLD	**Proposed** – 10 Nos., Capacity 41 MLD
10	Status of compliance and operation of the CETPs	Details furnished below	

10a. 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.	Industrial Discharge (KLD)	Status of CETPs	Status of CETPs (existing, constn. & proposed)
1	Trichy	1	7	201.4	Complied	Existing
2	Dindigul	1	49	1517	Complied	Existing
3	Perundurai	1	14	1000	Complied	Existing

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

Note: 1. The CETP of **Kanchipuram** and **Sivagangai** have been closed by the TNPCB as the CETPs have not complied the Board norms.

2. 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.
3. 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 as amended to the CETP to comply with certain conditions for violation of consent order conditions.

10b. Details of CETPs proposed in the PRS

Sl. No.	Location	Name of CETPs	CETP Capacity (MLD)	Status
1.	Perundurai	Sree Bhavani Dyeing Cluster Development Limited, Perundurai Taluk, Erode District.	4	
2.	Perundurai	Kadayampatti CETP Private Limited, Bhavani,Perundurai Taluk, Erode District	6.25	

Sl. No.	Location	Name of CETPs	CETP Capacity (MLD)	Status
3.	Perundurai	Kadayampatti Common Reject Management Systems Private Limited (CRMS), Perundurai Taluk, Erode District	1.75	DPR prepared & forwarded to GOI.
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**	

Note: Consent to Establishment orders have been issued to 10 CETPs meant for textile processing units by the TNPCB. The Detailed Project Reports prepared by Indian Institute of Technology, Madras with TNPCB recommendations have been forwarded to Director of Handloom of Textiles, Govt. of Tamil Nadu in-turn the same have been forwarded to Ministry of Textiles, Government of India, New Delhi for funding 50% of total cost under IPDS scheme and the fund is awaited.

IV. Solid Waste Management:

No	Solid Waste Management	State	PRS
1.	Total number of Urban Local Bodies and their Population	664	48
2.	Current Municipal Solid Waste Generation (TPD)	ULB- 13,726 Note: The MSWs of RLB of 1,965 TPD is furnished separately in the dossier.	ULB- 1421.73
3.	a. Number of facilities b. Installed capacity –TPD c. Utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output),	4,411 (CMA-1917+DTP-1324 +GCC-1170) 9147.23*(CMA-5445+DTP-1819+GCC-1883.23) 8848.23 (CMA-5146+DTP-1819+GCC-1883.23)	426 1011 978

	Compost Plants (Windrow, Vermi, decentralized pit composting), bio-methanation, MRF, etc	* The DTP has furnished installed capacity as 7198.53 TPD for the month of January 2021 and as 1819 TPD for February 2021. The DTP vide its mail dated15.04.2021 has stated that in most of the town panchayats the wet waste is processed in windrow composting method in vast vacant land. Initially, the area of the vacant land was mentioned for windrow composting, In this case,the installed capacity is high compared to the utilization capacity. Considering the gap in processing the installed capacity has been brought down to 1819 TPD from 7198.53 TPD.	
4.	Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)	1. It is proposed to increase the segregation and collection of MSWs. 2. The non-bio-gradable waste such as plastic wastes, etc. will be segregated and disposed scientifically.	
5.	No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)	Under construction-2 Nos. - 800 TPD 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 11,315	1,134 1,112 1,030
7	Details of MSW treatment facilities proposed and under construction (No., capacity, and technology)	**Proposed-**14 Nos. (CMA-11+GCC-3). Capacity :362 TPD (CMA-62+GCC-300) **Under Construction**-274 Nos. (CMA-136+DTP-6+GCC-132), Capacity 2568.28 TPD (CMA-836+GCC-1732.28)	2 Nos. 10.8 TPD
		(Technology: Windrow composting, Vermi composing, Bio-gas production, Incineration, Pyrolysis, Micro	

		compositing, Organic Compositing, Resource Recovery)	
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	-	-
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 10 fall into water bodies. But, no MSWs is discharged.	

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 (**No**., capacity, and technology)	321 Nos	1

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

ULBs	Total MSW generation in TPD	Total MSW processed in TPD	Existing MSW Facilities	Utilization Capacity of the MSW facilities TPD	Proposed MSW Facilities & Completion Timeline
CMA-135 Facilities	6526	5445.00	Windrow/Vermi composting, Bio-gas.generation	5146.00	-
DTP-528 Facilities	2100	1819.0	Incinerator, Pyrolysis, biocomposting,	1819.0	4 Incinerators & 2 Pyrolysis are under progress for processing non-recyclable dry waste on cluster basis.
GCC	5100	1883.23	Windrow/Vermi composting, Bio-gas.generation	1883.23	

VI . Bio-medical Waste Management (BWM):

Sl. No	BWM	State	PRS
1.	Total Bio-medical generation:	80 T/D	8.365 T/D
2.	No. of Hospitals and Health Care Facilities:	25,590	5687
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.

VII. Hazardous Waste Management (HWM)

S.No	Hazardous Waste Management	Tamil Nadu State
1.	Total Hazardous Waste generation	Total : 9.64810 lakhs T/A Recylable : 1.2081 lakhs T/A Utilizable : 7.30 lakhs T/A Land fillable : 0.90 lakhs T/A Incinerable : 0.24 lakhs T/A
2.	No. of Industries generating HW	3,961 units
3.	Treatment Capacity of all TSDFs	**2 Nos. of M/s Tamil Nadu Waste Management Limited (TNWML) Facility :** **a.TSDF Gummidipoondi :** Permitted land fillable hazardous waste in SLF- 1,00,000 T/A Permitted for Incineration of hazardous waste with incinerator of capacity-1.5 T/Hr. **b.TSDF Viruthunagar :** Permitted land fillable hazardous waste in SLF-2,40,000 T/A
4.	Average Quantity of Hazardous waste reaching the TSDFs and Treated	Land fillable hazardous waste- 90,296 T/A Incinerable hazardous waste- 7312 T/A

5.	Details of on-going or proposed TSDF	A common TSDF is proposed by TNWML (Unit-3) at Plot No. 141A, etc. of 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)	1259* * The waste from GCC is included.	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-inceneration 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 Centres (RRC) and disposed to Cement industries.	

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

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

Sl.No.	**Name of the river**	**Name of the ULBs**	**No. of location 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 Feb.2021

Sl.No.	Name of the River	No of Monitoring Locations	BOD mg/l
1	Sarabanga	2	No flow
2	Thirumanimutharu	2	10
3	Vasista	2	No flow
4	Cauvery	19	<2-4.2
5	Bhavani	7	<2
6	Thamirabarani	12	2.1-2.5

Source : TNPCB

Ground water quality in the catchment of polluted river-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, Namakkal, Kumarapalayam, Karur, Erode, Musiri, Trichy, Kulithalai, Thanjavur, Kumbakonam and Mayiladuthurai. TDS in Dharmapuri taluk, Salem, Namakkal and Cuddalore is 523 mg/l to 2096 mg/l , 412 to 2845 mg/l, exceed even 6000 mg/l and 5000 to 6000 mg/l , respectively.
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 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 of Tamil Nadu.
Thirumanimuth-aru	
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 Structure (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	3	17

Thamirabarani	7	2	230 works. Barrages **3** Nos.–Rs.230 Crores. Check dam **2** Nos-Rs.76 Crores, Artificial Recharge well **221** Nos and Recharge shaft **4 N**os (Rs. 88.496 Crores.)
Total	**91**	**17**	**300**

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

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

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

Name of the River	**Maintaining minimum e-flow of river**
Sarabanga	This river is only a flood carrier. The sewage water enters in to the river in Edapaddi Municipality, Omalur Town Panchayat and Poolampatti Town Panchayat. The above treatment plants are proposed under Nadanthai Vaazhi Cauvery for which a draft DPR has been prepared by M/s. WAPCOS, submitted and is under the scrutiny of PWD. E flow will be maintained in this river after completion sewage treatment plants by March 2022. The treated water will flow as environmental flow.
Thirumanimutharu	This river is only a flood carrier. The sewage water enters in to the river in Salem Corporation. Treatment plants have been proposed under NadanthaiVaazhi 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 February 2021 an E Flow of 0.130 TMC was maintained.
Bhavani	An E flow of 53,199 cusecs (including Irrigation purpose) was maintained in the river Bhavani during the Month of February 2021.
Thamirabarani	An average of 982.63 cusecs of water is released into the river in the month of February 2021 to ensure minimum environmental flow.

XIX. Plantation activities along the rivers-PWD

Name of the River	Plantation activities along the Rivers
	Number of Saplings proposed to plant and plantation work to be completed in March 2022
Sarabanga	32,400
Thirumanimutharu	42,000
Vasista	There is no proposal at present.
Cauvery	1,44,500
Bhavani	86,500
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 Thirumanimuthar	Drone Survey has been completed by M/s.WAPCOS in January 2021. A draft DPR prepared by M/s.WAPCOS has been submitted and is under scrutiny of PWD. This work will be completed in March 2022.
Vasista	There is no proposal at present.
Cauvery Bhavani	Drone Survey has been completed by M/s.WAPCOS in January 2021. A draft DPR prepared by M/s.WAPCOS has been submitted and is under scrutiny of PWD. This work will be completed in March 2022.
Thamirabarani	At present there is no proposal on biodiversity parks on the encroached River stretches and investigation works are being taken to implement it.

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: 2 CETPs have been closed.

Details of existing FSTPS in the Tamil Nadu

No.	Location	Existing STP Capacity (kld)	Capacity Being Utilized (kld)	Operational Status of STP	Compliance Status of STP
	CMA				
	Kangeyam	20	20	Operational	Complied
	Kovilpatti	40	40	Operational	Complied
	Tirumangalam	40	40	Operational	Complied
	Dharapuram	30	30	Operational	Complied
	Sengottai	20	20	Operational	Complied
	Thuraiyur	20	20	Operational	Complied
	Vickramasingapuram	30	30	Operational	Complied
	Edappadi	30	30	Operational	Complied
	Kadayanallur	40	40	Operational	Complied
	Total 9FSTPs	270	270	Operational	Complied
	DTP				
1.	Karunguzhi	0.024	0.024	Operational	Complied
2.	Periyanaikanpalayam	0.03	0.03	Operational	Complied
	Total	**0.054**	**0.054**		

	Grand Total (11)	**270.054**	**270.054**		

Location	**Capacity of the plant ***** (KLD)/MLD**	**Physical Progress in %**	**Completion Timeline**
CMA			
Paramakudi	40		
Aruppukottai	40		
Tiruchengode	40		
Melur	20		
Pattukottai	30		
Ambasamudiram	30		
Mannargudi	30		
Kulithalai	20		
Tenkasi	40		
Sankarankoil	30		
Padmanabhapuram	20		
Sirkali	20		
Virudhachalam	40		
Srivilliputhur	30		
Aranthangi	20		
Vandavasi	20		
Koothanallur	20		
Gudiyatham	30		
Attur	40		

Vedaranyam	20		
Thiruthuraipoondi	10		
Puliangudi	40		
Walajapet	30		
Cumbum	40		
Chengalpattu	20		
Sivakasi	40		
Keelakarai	20		
Gudalur	20		
Coonoor	10		
Colachel	40		
Manapparai	20		
Nellikuppam	20		
Panruti	30		
Total (33)	930		
DTP			
Mudukulathur TP	0.015		
Jalakandapuram TP	0.015		
Pennagaram TP	0.015		
Kaveripattinam TP	0.015		
Chengam TP	0.020		
Kurumbalur TP	0.010		
Pennadam TP	0.010		
Alangayam TP	0.015		
Total	**0.115**		
Grand Total (41)	**930.115**		

Parameters Range

pH – 6.5 to 8.5
BOD - < 20 mg/l
COD – ≤ 250mg/l
TSS - < 30 mg/l

Faecal Coliform – 10000MPN/100 ml

Gist of Report on the progress made on the Polluted River Stretches Tamil Nadu State

Month : February 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 71 STPs in operation with treatment capacity of 1629.18 MLD and in 11 FSTPs - 0.324 MLD is treated. In certain STPs 0.16 % to 11 % utilization has been increased during February 2021 and the details are submitted in **annexure-1**.
b.	**Under construction STPs**	38 STPs (976.4 MLD capacity) and 41 FSTPs (1.045 MLD capacity) are under construction and they are at various stages of implementation. Incremental increase of 1 to 17 % has been achieved during February 2021 in the under construction projects of STPs and the details are furnished as **annexure- 2.** In treatment of septage management 2- 20 % increase has been achieved during February 2021 (**Annexure- 3**).
c.	**Proposed STPs**:	38 STPs are proposed to fill the gap of treatment of sewage.
4 a.	**Existing MSW treatment**	13,726 TPD of solid waste is generated in the State with treatment capacity of 9147.23 TPD.
b	**Under construction MSW Facilities**:	274 MSW facilities are being constructed to a capacity of 2568.28 TPD.
c.	**Proposed MSW Facilities**	14 Nos. of facilities are proposed to a capacity of 362 TPD.
d	**Bio –mining**	Bio -mining is being taken up in 15 ULBs. In 12 ULBs legacy waste of 100% bio-mined. About 44.84 lac cum legacy waste has been reclaimed over a period of 5 months.
5 a.	**Existing CETPs**	There are 36 CETPs existing in the State with a capacity of 87350 KLD. Out of the 36 CETPs, 34 CETPs are in operation, 2 CETPs have been closed for non-compliance of Board orders .The details are submitted in **annexure-4.**

<table>
<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.</td></tr>
<tr><td>6.</td><td>Biomedical waste management</td><td>25,590 health care units in the State generate 80 TPD of biomedical waste, 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.</td></tr>
<tr><td>9</td><td colspan="2">Water Quality in Polluted River Stretches: –February 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>2</td><td>No flow</td><td rowspan="6">BOD < 3 mg/l</td></tr>
<tr><td>2</td><td>Thirumanimutharu</td><td>2</td><td>10</td></tr>
<tr><td>3</td><td>Vasista</td><td>2</td><td>No flow</td></tr>
<tr><td>4</td><td>Cauvery</td><td>19</td><td>< 2- 4.2</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>2.1-2.5</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>
<tr><td></td><td colspan="2">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; 17 Nos. are under progress and 300 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.</td></tr>
</table>

Annexure-1
Incremental progress in existing STPs treatment/utilization

Sl. No.	Location	Existing STP Capacity	Capacity Being Utilized (MLD)		Incremental progress %
			Jan.21	Feb. 21	
	CMWSSB				
1.	Kodungaiyur STP Zone II	80	70.45	70.61	0.16
2.	Kodungaiyur STP Zone I	80	71.97	72.21	0.24
3.	Koyambedu STP Zone – III	120	68.78	79.77	10.99
	CMA				
4.	Tiruppur	15	7.5	8.5	1.0
5.	Kanchipuram	14.50	13.5	14.5	1.0
6.	Maraimalai Nagar	2.20	1.80	2.20	0.4
7.	Tiruvallur	6.20	3.60	4.0	0.4
8.	Chidambaram	9.44	2.1	3.0	0.90
9.	Udumalaipet	7.81	3.50	3.75	0.25
10.	Virudunagar	7.65	3.70	3.80	0.10
11.	Salem- Vandipettai	4.0	-	1.0	1.0
12.	Kumbakonam	17.0	12.0	12.50	0.50

Annexure- 2
Incremental progress of STPs under construction

Sl. No.	Name of STP	Commencement Period	Capacity (MLD)	%of Completion		Incremental progress %
				Jan.21	Feb.21	
	CMA					
1.	Avadi	Jan.20	36.0	85	90	5
	Trichirapalli	--	37	35	52	17
2.	Coimbatore – Kuruchi-Kuniyamuthur	Feb.19	30.5	42	53	11
3.	Karaikudi	May 17	16.0	73	74	1
4.	Sathiyamangalam	--	4.08	99	100	1
5.	Rajapalayam	Feb.19	21.9	-	6	6
6.	Sattur	--	4.65	80	81	1
7.	Tuticorin	Jun 18	28.0	62	65	3
8.	**CMWSSB**	Mar 16	54.0	85	86	1

	Sholinganallur					
1.	Kodungaiyur, Zone-1	Nov.19	120	32.5	34	1.5
2.	Kodungaiyur,Zone- 2	Nov.19	120	34	37.55	3.55
3.	Nesapakkamr,Zone-4	Nov.19	50	29.5	30	0.5
4.	Perungudi-4, Zone-5	Nov.19	60	23	24	1
5.	Nesapakkam TTUF	Nov.19	10	75	77	1
6.	Perungudi TTUF	May 19	10	55	56	1
7.	**DTP** Ponneri	2013/ 2016	6.52	39	42	4
8.	Manachanallur	May 2017	6.41	97	98	1
9.	S.Kannanur	2013/ 2017	2.35	97	98	1
10.	Melachokkanathapuram	Nov. 19	2	57	68	11
11.	Tiruvetriyur	-	31	100	100	Completed
12.	Tiruporur	-	4.02	63	64	1
13.	Vallam	-	3.14	84	90	6

Annexure-3
Incremental progress of Septage Management under construction (Town Panchayats)

Sl. No.	Name of FSTP	Commencement Period	Capacity (MLD)	%of Completion.		Incremental progress %
				Jan.21	Feb.21	
1.	Mudukulathur	Jan.2019	0.015	85	92	7
2.	Pennagaram	Jan.2019	0.015	25	35	10
3.	Chengam	Jan.2019	0.02	92	95	3
4.	Kurumbalur	Jan.2019	0.01	65	67	2
5.	Pennadam	Jan.2019	0.01	40	60	20
6.	Alangayam	Jan.2019	0.015	75	85	10
Total			0.115	-	-	-

Annexure-4.
Status of compliance and operation of the CETPs

S.No.	Location of CETPs	No. of units connected to CETP.	Capacity (KLD)	Status of CETPs	Compliance
1.	Pallavaram	144	3000	Operation	It awaits Anna University evaluation study report.
2.	Ambattur	211	200	Operation	It has not provided on line connectivity of effluent monitoring system. It assured to rectify the defects.
3.	Kanchipuram	62	1500	Under closure	Under closure due to non-compliance of the Board order.
4.	Sivagangai	48	49.6	Under closure	Under closure due to non-compliance of the Board order.

MUNICIPAL SOLID WASTE MANAGEMENT-STATE (ULBs)
Incremental Progress

Sl. No.	Details	Nov.2020	Dec.2020	Jan.2021	Feb.2021	Incremental progress %
1	MSW generation (TPD)	15,666	15,690	13,726	13,726	-
2	MSW treatment capacity (TPD)	11,583	11,583	11,583	9147.23	-
3	MSW utilization (TPD)	6,166	6,203	5,984	8843.23	48

Note:

a) 44.84 Lakhs cum legacy waste has been reclaimed over a period of 5 months.

b) Thiruvotriyur STP and Sathiyamangalam STP works have been completed last month and they are to be commissioned.

c) The works of STPs of Metttupalayam and Perundurai have been completed above 99% .

e). The STPs of Avadi (90%), Tambaram (97%), Perundurai (93%), Mettupalayam (92%), Manachanallur (98%), S.Kannanur (98%), and Nagarcoil (90%) works have been completed upto Feb.21.

Consolidated Status Report on the progress made on the Polluted River Stretches Tamil Nadu State

Month: February 2021

1. **Rivers**: 6 polluted river stretches. Priority -I River Cauvery, Sarabanga river, Vasista river and Thirumanimutharu river; priority - IV Bhavani river and Priority -V Tamiraparani river.
2. **Generation of sewage**: The sewage generation is 3786.16 MLD in the state..
3. a. **Existing STPs**: There are 71 STPs are in operation in which 1633.20 MLD is treated. In 11 FSTPs 0.2701MLD is treated. In the existing STPs 1-9 % utilization has been increased in certain STPs during Feb. 2021 and the details are submitted in **annexure-1**.

   b. **Under construction STPs**: 38 STPs are under construction to a capacity of 972.32 MLD and 41 FSTPs are under construction to a capacity of 50 MLD and they are at various stages of implementation. Incremental increase of 1 to 2 % has been achieved during February 2021 in under construction projects of STPs and the details are furnished as **annexure- 2.** 8 FSTPs are under construction to a capacity of 0.115 MLD and they are at various stages of implementation. Wherein 2- 10 % increase has been achieved in construction during February 2021 (**Annexure- 3**).

   c. **Proposed STPs**: 38 STPs are proposed to fill the gap of treatment.
4. a. **Existing MSW treatment** :13,726 TPD of solid waste is generated in the State out of which about 5044 TPD is treated.

   b. **Under construction MSW Facilities**:149 MSW facilities are being constructed to a capacity of 862 TPD.

   c. **Proposed MSW Facilities** : 11 Nos of facilities are proposed to a capacity of 62 TPD.

   d. **Bio -mining** is being taken up in 15 ULBs. In 12 ULBs legacy waste of 100% bio-mined. About 40.72 lac cum legacy waste has been reclaimed over a period of 5 months.
5. a. **Existing CETPs** : There are 36 CETPs existing in the State with a capacity of 87350 KLD

   Out of the 36 CETPs, 33 CETPs are in operation, 2 CETPs have been closed for non-compliance of Board order and 2 CETPs are being complied (On line Continuous effluent Monitoring System/ Evaluation Study Report) for which directions have been issued. The details are submitted in **annexure-4.**

   b. **Proposed CETPs**: Along the polluted river stretches, 10 CETPs of 41 MLD are proposed for dyeing units and they are under proposal stage.
6. **Biomedical waste management**: 25,128 health care units in the State generate 80 TPD of biomedical waste, for which 9 bio-medical waste treatment facilities are in operation,
7. **Hazardous Waste Management:** 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.

8. **Coastal Management Plan**: As per the directions in the NGT order dated 22nd September 2020, 46 Nos. of stretches have been identified in 14 districts as polluted, for which action plan is under preparation and it will be furnished by the Director of Environment early.

9. Water Quality in Polluted River Stretches: **–February 2021**

Sl. No.	Name of the River	No. of Monitoring Locations	BOD mg/l	Standards
1	Sarabanga	2	No flow	BOD < 3 mg/l
2	Thirumanimutharu	2	No flow	
3	Vasista	2	< 2.3	
4	Cauvery	19	< 2- 2.5	
5	Bhavani	7	< 2-2.5	
6	Thamirabarani	12	< 2-3.2	

10. **Reuse of treated water:** 80.50 MLD of treated waste water is reused for agricultural and industrial purposes.

11. Maintenance of ground and surface water quality – PWD

a. Ground water quality: Along the polluted river stretches monitoring wells have been provided and the ground water is monitored**.**

b. **Ground water regulation:** Ground water (Management and development) Act to regulate and manage the extraction of Ground water is under active consideration of the Government.

c. **Good irrigation practices adopted by the State:** Village level awareness meetings are carried-out by the PWD to adopt crop rotation and good irrigation practices. Rehabilitation and modernization of tanks are carried-out by the PWD.

d. **Rain Water Harvesting:**91 RWH structures along the PRS are provided; 17 Nos. are under progress and 300 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.

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Tamil Nadu Pollution Control Board,
Chennai.

Annexures

Gmail

DDLABS AEL <tnpcbprs@gmail.com>

TNPCB-Polluted River Stretches- Updation of Monthly Progress report -Submitted - Reg

2 messages

dma office <dmaoffice@gmail.com> Fri, Mar 19, 2021 at 5:26 PM
To: DDLABS AEL <tnpcbprs@gmail.com>
Cc: deputydirectorlabsrd@gmail.com

Sir,
Please see the attachment.

4 attachments

- **SWM-LWM MPR-excel (Feb-21).xls** 49K
- **LWM Status.doc** 181K
- **29949-2018-UGSS 1.pdf** 14K
- **SWM Gap Analysis.xls** 50K

dma office <dmaoffice@gmail.com> Mon, Mar 22, 2021 at 11:58 AM
To: DDLABS AEL <tnpcbprs@gmail.com>

Sir/ Madam,
Please see the attached file

On Fri, Mar 19, 2021 at 5:26 PM dma office <dmaoffice@gmail.com> wrote:

> Sir,
> Please see the attachment.

- **SWM MPR & PRS-excel (Feb-21).xls** 33K

From
Dr. K. Baskaran , I.A.S,
Commissioner of Municipal Administration,
Urban Administrative Building Campus,
75, Santhome High Road,
Raja Annamalaipuram,
Chennai – 600 028.

To
The Chairman,
Tamil Nadu Pollution Control Board,
Guindy, Chennai-32.

Roc.No.29949/2018 /UGSS -1 Dated: 18.03.2021

Sir,

Sub: Orders of National Green Tribunal in O.A.No.673 of 2018 dated: 24.09.2020, Monthly Progress report – sent – Reg.

Ref:
1. Order of National Green Tribunal Dated: 24.09.2020 in O.A.No.673/2018.
2. Email received from Tamil Nadu Pollution Control Board Dated: 09.03.2021.

****

With reference to the email 2nd cited above, the monthly progress report for the six polluted river stretches in prescribed formats is enclosed herewith.

Encl: as above

for **Commissioner of Municipal Administration**

Commissionerate of Municipal Administration

February Monthly 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 & 864.36**	**13Nos & 264.87**
2	Capacity Utilization of existing STPs	**371.01**	**128.09**
3	MLD of sewage being treated through Alternate technology	**Nil**	
4	Gap in Treatment Capacity in MLD	**655.54**	**110.74**
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	7.50	Operational	Comply
3	Dindigul	13.65	3.00	Operational	Comply
4	Avadi	4.00	2.50	Operational	Comply
5	Madurai	125	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	4.00	Operational	Comply
13	Chidambaram	9.44	3.00	Operational	Comply
14	Thiruvannamalai	8.70	4.00	Operational	Comply
15	Viluppuram – (Kakuppam)	9.00	6.00	Operational	Comply
	Viluppuram (Erumanthangal)	3.50	1.50	Operational	Comply
16	Arakkonam	11.04	2.00	Operational	Comply
17	Thirupathur	11.43	2.00	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	1.80	Operational	Comply
23	Theni-Allinagaram	12.05	9.00	Operational	Comply
24	Dharmapuri	4.86	3.50	Operational	Comply
25	Karur	15.00	6.50	Operational	Comply
26	Krishnagiri	12.34	7.80	Operational	Comply
27	Namakkal	5.00	5.00	Operational	Comply
28	Nagapattinam STP-1	9.63	4.00	Operational	Comply
	Nagapattinam STP-2	2.69	1.00	Operational	Comply
29	Tiruvarur	6.92	4.10	Operational	Comply
30	Ariyalur	4.16	1.00	Operational	Comply
31	Pudukkottai	10.62	6.00	Operational	Comply
32	Perambalur	4.20	3.60	Operational	Comply
33	Udhagamandalam	5.00	4.00	Operational	Comply

34	Udumalaipet	7.81	3.75	Operational	Comply
35	Virudhunagar	7.65	3.80	Operational	Comply
PRS (13 Nos)					
36	Tiruchirappalli	58.00	58.00	Operational	Comply
37	Salem - Vellakuttai STP	13.00	7.00	Operational	Comply
	Salem - Anaimedu STP	6.00	4.00	Operational	Comply
	Salem - Mankuttai STP	35.00	1.50	Operational	Comply
	Salem - Vandipattai STP	44.00	1.00	Operational	Comply
38	Tirunelveli	24.20	8.50	Operational	Comply
39	Erode	50.55	27.00	Operational	Comply
40	Mettur STP-1	0.82	0.50	Operational	Comply
	Mettur STP-2	0.92	0.14	Operational	Comply
	Mettur STP-3	5.45	2.10	Operational	Comply
41	Kumbakonam	17.00	12.50	Operational	Comply
42	Mayiladuthurai	5.85	5.85	Operational	Comply
Total	**51 nos**	**864.36**	**371.01**		

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	Avadi	36.00	90%	-	June-21
3	Coimbatore - Nanjudapuram	40.00	82%	-	June-21
	Coimbatore – Kuruchi & kuniyamuthur	30.53	53%	-	Jan-22
4	Karaikudi	16.00	74%	-	June-21
5	Nagercoil	17.66	90%	-	June-21

S.No	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
6	Pollachi	11.25	88%	-	June-21
7	Rajapalayam	21.85	6%	-	March-22
8	Rameshwaram	4.08	37%	-	Dec'21 (Work stopped due to Hon'ble Highcourt Stay)
9	Sattur	4.65	81%	-	June-21
10	Tambaram	30.00	97%	3930	June-21
11	Tiruppur	15.00	40%	-	June-22
	Tiruppur (Sarkarperiyapalayam)	36.00	60%		Feb-22
	Tiruppur (Chinnandipalayam)	20.00	60%		Feb-22
12	Tuticorin	28.00	65%	-	June-21
13	Vellore	50.00	45%	-	June-21
14	Tindivanam	11.44	Preliminary work under progress		Dec-23
15	Villupuram Added Area	4.56			Dec-23
PRS (4 Nos)					
16	**Trichirapalli-STP1**	**30.00**	**52%**	**-**	**Dec-21**
	Trichirapalli-STP2	**37.00**	**41%**	**-**	**Dec-21**
17	**Mettupalayam**	**8.65**	**92%**	**-**	**June- 21**
18	**Sathiyamanagalam**	**4.08**	**100%**	**-**	**-**
Total (22 nos)		**473.46**			

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
1	Pammal & Anagaputhur	27.00	Tender Received & Work to be commenced	
PRS(2Nos)				
2	Trichirapalli	7.50	Tender Received & Work to be commenced	
3	Tirunelveli	10.00		

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

(i) Completed - 9 Nos

(ii) Under construction – 33 Nos

(iii) Tender Stage – 1 No

(iv) AS Stage -3 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

NMCG Format for Submission of Monthly Progress Report in the NGT Matter OA No.673 of 2018

For the Month of February 2021 **Department -CMA**

V	**Solid Waste Management:**			
1	Total number of Urban Local Bodies and their Population	135 ULBs / 16705001		
2	Current Municipal Solid Waste Generation TPD	6526 TPD		
3	**Existing MSW processing facilities**	**Total No.**	**Installed Capacity (TPD)**	**Utilization Capacity (TPD)**
a.	Windrow Compost	39	115	98
b.	Vermi Compost	11	95	76
c.	Decentralized pit composting (MCC)	686	2623	2465
d.	Biomethanation	47	189	165
e.	MRF/RRC	227	908	908
f.	others - Onsite composting centre	907	411	330
g.	Waste to Energy	-	-	-
h.	Dry waste disposed to local vendors and Cement industries		1104	1104
	Total	**1917**	**5445**	**5146**
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)**
		-	Proposed in Coimbatore, Trichy and Madurai - Tender stage	-
6	Total no. of wards	4332		
	Total no. of wards having door to door collection service	4245		
	Total no. of wards practicing segregation at source	3682		
7a.	Details of MSW treatment facilities proposed (no.)	11		
	Details of MSW treatment facilities proposed (capacity, TPD)	62 TPD		
	Details of MSW treatment facilities proposed (technology)	Incineration for Dry waste and MCC for Wet waste		
7b.	Details of MSW treatment facilities under construction (no.)	136		

	Details of MSW treatment facilities under construction (capacity, TPD)	836		
	Details of MSW treatment facilities under construction (technology)	Micro Composting Centre, Incineration and RRC and Onsite composting		
8	No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.	Nil		
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	-		
VIII	Plastic Waste Management:			
1	Total Plastic Waste generation:TPD	514		
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 1110 MT of single use plastics had been seized and a penalty of Rs.5.48 crores has been collected. The seized plastics are stored at Resource Recovery Centres (RRC) and disposed to Cement industries.		

NMCG Format for Submission of Monthly Progress Report in the NGT Matter OA No.673 of 2018

For the Month of February 2021 **Department CMA**

V	**Solid Waste Management:**			
1	Total number of Urban Local Bodies and their Population	19 ULBs		
2	Current Municipal Solid Waste Generation TPD	1296 TPD		
3	**Existing MSW processing facilities**	**Total No.**	**Installed Capacity (TPD)**	**Utilization Capacity (TPD)**
a.	Windrow Compost	4	15	12
b.	Vermi Compost	1	2	2
c.	Decentralized pit composting (MCC)	167	612	595
d.	Biomethanation	13	54	48
e.	MRF/RRC	28	114	114
f.	others - Onsite composting centre	134	61	55
g.	Waste to Energy	-	-	-
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)**
		-	Proposed in Trichy - Tender stage	-
6	Total no. of wards	669		
	Total no. of wards having door to door collection service	661		
	Total no. of wards practicing segregation at source	616		
7a.	Details of MSW treatment facilities proposed (no.)	2		
	Details of MSW treatment facilities proposed (capacity, TPD)	10.8 TPD		
	Details of MSW treatment facilities proposed (technology)	Incineration for Dry waste		
7b.	Details of MSW treatment facilities under construction (no.)			
	Details of MSW treatment facilities under construction (capacity, TPD)			

	Details of MSW treatment facilities under construction (technology)			
8	No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.	Nil		
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	-		
VIII	Plastic Waste Management:			
1	Total Plastic Waste generation:TPD	103		
2	Treatment/ Measures adopted for reduction or management of plastic waste:	All the 19 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 Ban on One time use plastics is in force. The seized plastics are stored at Resource Recovery Centres (RRC) and disposed to Cement industries.		

Gmail **DDLABS AEL <tnpcbprs@gmail.com>**

MPR- Feb 2021

1 message

ENGINEER'S STPSOUTH <engrstpsouth@gmail.com> Mon, Mar 22, 2021 at 3:24 PM
To: tnpcbprs@gmail.com

Madam,

Kindly find the enclosed document.

CMWSSB Revised MPR Format - Feb 2021.docx
33K

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 February 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)	**16494.89(MLD - 589 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 – February 2021

No.	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
1	Nesapakkam STP Zone - IV	23	16.77	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	28.48	Operational	
3	Kodungaiyur STP Zone II	80	70.61	Operational	
4	Kodungaiyur STP Zone I	80	72.21	Operational	
5	Perungudi STP Zone - V	12	10.45	Operational	
6	Koyambedu	60	15.28	Operational	

	STP Zone – III				
7	Kodungaiyur STP Zone I& II	110	94.09	Operational	
8	Nesapakkam STP Zone - IV	40	39.63	Operational	
9	Perungudi STP Zone - V	54	46.64	Operational	
10	Perungudi STP Zone – V	60	57.81	Operational	
11	Nesapakkam STP Zone - IV	54	53.21	Operational	
12	Koyambedu STP Zone – III	120	79.77	Operational	
13	Sholinganallur STP	18	4.15	Operational	
Total		**745**	**589.10**		

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	54	86		Dec 2020
2	Thiruvottriyur STP	31	100		
3	Kodungaiyur STP Zone - I	120	34		Feb 2022
4	Kodungaiyur STP Zone - II	120	37.55		Feb 2022
5	Nesapakkam STP Zone - IV	50	30		Feb 2022
6	Perungudi STP Zone - V	60	24		Feb 2022
7	Nesapakkam TTUF	10	77		Mar 2021
8	Perungudi TTUF	10	56		Mar 2021
9	CRRT and other works – Modular STP's at various location	15			
Total		**470**			

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. 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. <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 February 2021 - Prepared By Greater Chennai Corporation(GCC)

V		Solid Waste Management:		
1	Total number of Urban Local Bodies and their Population	**4646732 (As per 2011 Cences)**		
2	Current Municipal Solid Waste Generation TPD	5100		
3	**Existing MSW processing facilities**	**Total No.**	**Installed Capacity (TPD)**	**Utilization Capacity (TPD)**
a.	Windrow Compost	1	50	50
b.	Vermi Compost	2	8	8
c.	Decentralized pit composting	191	454.32	454.32
d.	Biomethanation	7	22	22
e.	MRF/RRC	184	460	460
f.	others	752	875.45	875.45
g.	Waste to Energy	33	13.46	13.46
	Total	**1170**	**1883.23**	**1883.23**
4	Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%)	Nil		
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)**
		-	-	2 nos / 800 TPD
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	174		
7a.	Details of MSW treatment facilities proposed (no.)	3		
	Details of MSW treatment facilities proposed (capacity, TPD)	300		
	Details of MSW treatment facilities proposed (technology)	Incinerator		
7b.	Details of MSW treatment facilities under construction (no.)	132		
	Details of MSW treatment facilities under construction (capacity, TPD)	1732.28		
	Details of MSW treatment facilities under construction (technology)	MCC ,Bio CNG,Bio Gas,Windrow Compost,Well Ring,RRC,MRF,Incinerator,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
	Status of ULB wise SWM	
	ULB	Greater Chennai Corporation(GCC)
	Total MSW generated in TPD	5100
	Total MSW processed in TPD	1883.23
	Existing MSW facilities	MCC ,Bio CNG,Bio Gas,Vermi Composting,Mulch Pit,Windrow Compost,Horticulture Waste process,RRC,MRF,Incinerator,Pyrolysis Plant,Off take,Baling machines
	Utilization capacity of the existing MSW facilities	1883.23
	Proposed MSW Facilities & Completion Timeline	Incinerator / December 2021
	Status of ULB/RLB wise SWM	**Tamil Nadu State**
	ULB/RLB (No.),	
	Total MSW generated in TPD	
	Total MSW processed in TPD	
	Existing MSW facilities	
	Utilization capacity of the existing MSW facilities	
	Proposed MSW Facilities & Completion Timeline	
VIII	**Plastic Waste Management:**	
1	Total Plastic Waste generation:TPD	625
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**	

Annexure - II

Gmail

DDLABS AEL <tnpcbprs@gmail.com>

DTP - MPR status report and discepancy reply - reg

1 message

DTP System Analyst <dtpsystem@gmail.com> Fri, Mar 26, 2021 at 4:37 PM
To: tnpcbprs@gmail.com

--
Sir / Madam,

* Please see the attached file.*

****

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

[image: logo]

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

2 attachments

February MPR Format 2021.docx
45K

discrepancy reply.docx
14K

National Mission for Clean Ganga
Format for submission of February 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	**7.50 MLD**	-
3	MLD of sewage being treated through Alternate technology	**3 MLD**	-
4	Gap in Treatment Capacity in MLD	**429.306**	**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

Septage Management					
8	Karunguzhi	0.024	0.024	Operational	
9	Periyanaikanpalayam	0.03	0.03	Operational	
		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	Dec-21
2	Thiruporur TP	4.02	64% completed(UGSS)	3325/4479	Dec-21
3	Ponneri TP	6.52	42% completed	1891/7605	Mar-21
4	Manachanallur TP	6.41	98% completed	3652/3652 2320/2320	Mar-21
5	S.Kannanur TP				
6	Vallam TP	2.35	90% completed	3315/3787	Mar-21
7	Perundurai TP	3.14	93% completed	3503/3653	Mar-21
8	Melachokanathapuram TP	2.00	68% completed	2920/4500	May-21
	Total	**32.94**		**25954/35996**	
Septage Management					
11	Mudukulathur TP	0.015	92% completed	-	Mar-21
12	Jalakandapuram TP	0.015	95% completed	-	Apr-21
13	Pennagaram TP	0.015	35% completed	-	May-21
14	Kaveripattinam TP	0.015	70% completed	-	Apr-21
15	Chengam TP	0.020	95% completed	-	Mar-21
16	Kurumbalur TP	0.010	67% completed	-	Apr-21
17	Pennadam TP	0.010	60% completed	-	May-21
18	Alangayam TP	0.015	85% completed	-	Apr-21
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	-	-	DPR Stage	-	-	PWD	-	"
3	Mohanur TP	-	-	DPR Stage	-	-	PWD	-	"
4	Velur TP	-	-	DPR Stage	-	-	PWD	-	"
5	Punjai Pugalur TP	-	-	DPR Stage	-	-	PWD	-	"
6	Bhavani sagar TP	-	-	DPR Stage	-	-	PWD	-	"
7	Sirumugai TP	-	-	DPR Stage	-	-	PWD	-	"
8	Madathukulam TP	-	-	DPR Stage	-	-	PWD	-	"
9	Omalur TP	-	-	DPR Stage	-	-	PWD	-	"
10	Poallampatty TP	-	-	DPR Stage	-	-	DTP	-	Tamilnadu Water Investment Company (M/s. TWIC) has been appointed as consultant for preparation of DPR. The DPR will be expected to be ready by 30.04.2021.
11	Pethanaickenpalayam TP	-	-	DPR Stage	-	-	DTP	-	"
12	Yethapur TP	-	-	DPR Stage	-	-	DTP	-	"
13	Belur TP	-	-	DPR Stage	-	-	DTP	-	"
14	Srivaikundam TP	-	-	DPR Stage	-	-	DTP	-	"
15	Authoor TP	-	-	DPR Stage	-	-	DTP	-	"
16	Eral TP	-	-	DPR Stage	-	-	DTP	-	"
17	Alwarthirunagari TP	-	-	DPR Stage	-	-	DTP	-	"
18	Then Thiruperai TP	-	-	DPR Stage	-	-	DTP	-	"
19	Arumuganeri TP	-	-	DPR Stage	-	-	DTP	-	"
20	Mukkudal TP	-	-	DPR Stage	-	-	DTP	-	"
21	Gopalasamudram TP	-	-	DPR Stage	-	-	DTP	-	"

22	Kallidaikurichi TP	-	-	DPR Stage	-	-	DTP	-	"
23	Cheranmahadevi TP	-	-	DPR Stage	-	-	DTP	-	"
24	Veeravanallur TP	-	-	DPR Stage	-	-	DTP	-	"
25	Patthamadai TP	-	-	DPR Stage	-	-	DTP	-	"
26	Mela Seval TP	-	-	DPR Stage	-	-	DTP	-	"
27	Kuthalam TP	-	-	DPR Stage	-	-	PWD	-	DPR is under preparation by WAPCOS/ PWD.
28	Thirukattupalli TP	-	-	DPR Stage	-	-	PWD	-	"
29	Thiruvaiyaru TP	-	-	DPR Stage	-	-	PWD	-	"

Details of proposed STPs in the State

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1	Mangadu Opp to SWM,at pattur road		DPR stage-Comprehensive UGSS in Poonamallee cluster A with Mangadu Town Panchayat and 12 Village Town Panchayat	June-2021
2	Chitlapakkam		Detailed project Report prepared under TNUIFSL for Sembakkam cluster basis with 13 local bodies(Fund assistance from Project Development Grant Fund)	Tender received for DPR preparation. After Model code of contact completed tender will be finalised
3	Madampakkam		Detailed project Report prepared under TNUIFSL for Sembakkam cluster basis with 13 local bodies(Fund assistance from Project Development Grant Fund)	Tender received for DPR preparation. After Model code of contact completed tender will be finalised
4	Peerkankaranai		DPR has to be prepared through TNUIFSL on cluster basis	Tender received for DPR preparation. After Model code of contact completed

				tender will be finalised
5	Perungalathur		DPR has to be prepared through TNUIFSL on cluster basis	Tender received for DPR preparation. After Model code of contact completed tender will be finalised
6	Thiruneermalai		DPR as to be prepared through TNUIFSL by cluster basis	Tender received for DPR preparation. After Model code of contact completed tender will be finalised
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)

I. **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 processed - 1819 TPD** **Gap in processing - 281 TPD**	**Total MSW generated - 125.73 TPD** **Total MSW processed - 109.47 TPD** **Gap in processing - 16.26 TPD**

S.No	Description	State			PRS		
		Nos	Installed Capacity MT	Utilization Capacity TPD	Nos	Installed Capacity MT	Utilization Capacity TPD
1	Windrow & Vermi Composting	735	1013	844	43	115	110
2	De-Centralised	42	118	90	4	7	7
3	Bio-Gas / Bio-Methanation	20	167	105	3	6	6
4	RRC	527	521	780	29	25	29

- 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 6 Incinerators has been completed remaining 4 Nos are under progress.**
✓ **So far 8 Pyrolysis has been completed remaining 2 Nos are under progress.**
✓ **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**	**1013 TPD**	**Incinerators are proposed to install for processing non-recyclable dry waste in cluster basis**
			2.Decentralized composting	**118 TPD**	
			3. Biogas	**167 TPD**	
			4.Incinerator	**Under construction will be completed before April 2021**	
			5.Pyrolysis	**Under construction will be completed before April 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**	**109.47**	**1.windrow & Vermi compost**	**115 MT**	**Incinerators & Pyrolysis Plant are proposed to install for processing non-recyclable dry waste in cluster basis**

II. Bio-medical Waste Management:

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

III. Hazardous Waste Management:

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

IV. Plastic Waste Management:

- Total Plastic Waste generation **State - 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

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

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

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

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

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

X. Ground water regulation:

XI. Good irrigation practices being adopted by the State:

XII. Rain Water Harvesting:

XIII. Demarcation of Floodplain and removal of illegal encroachments:

XIV. Maintaining minimum e-flow of river:

XV. Plantation activities along the rivers:

XVI. Development of biodiversity park:

XVII. Reuse of Treated Water:

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

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

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

XXI. 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.**

Annexure-III

Gmail

DDLABS AEL <tnpcbprs@gmail.com>

NGT - Monthly Progress Report for the month of February -2021 - Reg

1 message

DRD&PR Chennai- TN <tnsbmg@gmail.com> Mon, Mar 15, 2021 at 1:24 PM
To: DDLABS AEL <tnpcbprs@gmail.com>
Cc: cgs2rdpr@tn.gov.in

--
Sir/Madam,

Please see the attachment folder.

for DRD & PR

NGT Feb 21.pdf
293K

From
Commissioner,
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.12.03.2021.

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 February-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 have 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 by the first week of every month, 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.

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

Enel: Format.

12/3/21

For Commissioner.

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

12/3/2021

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 February-2021

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**	**1.56**
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 & 8.30 TPD**

- Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), biomethanation, MRF etc **(State & PRS) : 12525 & 31**
- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%) **(State & PRS)**
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction) **(State & PRS)**
- Total no. of 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. <u>Plastic Waste Management:</u>

- 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

Gmail

DDLABS AEL <tnpcbprs@gmail.com>

NGT- 673- POLLUTED RIVER STRETCHES - MONTHLY PROGRESS REPORT FOR MONTH OF FEBRUARY 2021- SUBMISSION - REGARDING

1 message

CE GROUNDWATER <cegwchennai@gmail.com> Tue, Mar 23, 2021 at 4:29 PM
To: PWDSecretary <pwdsec@tn.gov.in>, DDLABS AEL <tnpcbprs@gmail.com>, eicwrdtn <eicwrdtn@gmail.com>, sspublicworks <ss.publicworks@gmail.com>

Respected Sir,
Please find the attachments.

--
Sir,
Kindly download the attached file.

for Chief Engineer, SG&SWRDC

13 attachments

- **MPR for Feb-21_Cauvery river.docx**
  24K
- **MPR for Feb-21_Bhavani river.docx**
  22K
- **MPR for Feb-21_Thamirabarani river.docx**
  24K
- **MPR for Feb-21_Thirumanimutharu river.docx**
  22K
- **MPR for Feb-21_Bhavani river.PDF**
  891K
- **MPR for Feb-21_ Sarabanga river.PDF**
  979K
- **MPR for Feb-21_Cauvery river.PDF**
  1342K
- **MPR for Feb- 21_ Vasista river.docx**
  20K
- **MPR for Feb-21_Thamirabarani river.PDF**
  1361K
- **MPR for Feb-21_ Sarabanga river.docx**
  22K
- **Cv. lr to TNPCB.PDF**
  396K
- **MPR for Feb-21_Thirumanimutharu river.PDF**
  925K
- **MPR for Feb- 21_ Vasista river.PDF**
  813K

GOVERNMENT OF TAMILNADU
WATER RESOURCES DEPARTMENT
PUBLIC WORKS DEPARTMENT

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

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

Lr. No: / RRC / AGC /2021 Dated: 23 .03.2021

Sir,

Sub: NGT Case No 673/2018- Central Monitoring Committee (CMC) -Tamil Nadu Pollution Control Board (TNPCB) - Submission of Monthly Progress Report in the prescribed formats for the month of **February – 2021,** for **Six Polluted river stretches**- Submission - Regarding.

Ref: Email letter received from Deputy Director, TNPCB dated 9.3.2021 Addressed to Chief Engineer State Ground & Surface Water Resources Data Centre, Chennai.

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

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

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

Enclosure: Monthly progress reports

Copy presented to the Principal Secretary, to Government, PWD, Fort. st. George, Chennai-9
Copy to Engineer- in- Chief and Chief Engineer (General), WRD, Chepauk, Chennai- 5

23/3/21

for Chief Engineer (SG & SWRDC)
Tharamani, Chennai -113

Format for Submission of Monthly Progress Report by States/ UTs

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

For the Month of **February 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.

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 is under the scrutiny of PWD. 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 has been submitted is under the scrutiny of PWD. 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 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. 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.

23/3/21

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 **February 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 of PWD. 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 preparation by M/s.WAPCOS has been submitted and is under the scrutiny of PWD. 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 of PWD. 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 is under the scrutiny of PWD. This work will be completed in March 2022.

23/3/21

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 **February 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

23/3/17

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 **February 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 of PWD. 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 February 21 an E Flow of **0.130** 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 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. 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.

23/3/21

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 **February 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	8	17

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 **53,199** cusecs (including Irrigation purpose) was maintained in the river Bhavani during the month of February 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.

23/3/21

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 **February 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 February 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 campaign 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	2	230 (Barrages 3 nos at cost of Rs. 230 Crores. Check dam 2 nos at cost of Rs. 76 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 **982.63 cusecs** of water is released into the river in the month of **February** 21 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.

23/3/21

for Chief Engineer (SG & SWRDC)

ANNEXURE

BIOMEDICAL WASTE MANAGEMENT

S.No.	Bio-Medical Waste Management	State		Polluted River Stretch	
1	Total Bio-medical generation (TPD)	Authorised BMW generation qty:	80 T/day	Salem	1.984
				Namakkal	0.724
				Dharmapuri	0.554
				Erode	0.754
		Avg. Actual BMW Generation:	58 T/day	Karur	0.941
				Trichy	0.750
				Thanjavur	1.578
				Nagapattinam	1.080
2	No. of Hospitals and Health Care Facilities	25590 as on 28.02.2021		Salem	1054
				Namakkal	550
				Dharmapuri	492
				Erode	496
				Karur	455
				Trichy	1024
				Thanjavur	978
				Nagapattinam	638
3	Status of Treatment Facility / CBMWTFs	In Tamil Nadu, there are 12 CBMWTFs, out of which 10 facilities are in operation and two facilities at Ooty and Ramanathapuram have been issued with closure direction by TNPCB for non compliance of consent order conditions and Bio Medical Waste Management Rules, 2016. The biomedical wastes generated from the Health Care Facilities attached to these two facilities which are under closure are sent to other CBMWTFs for further treatment and disposal. On an average, 58 Tons/day of bio-medical wastes are handled by these facilities. In addition, three common facilities are under establishment		1. One Facility M/s. Medicare Enviro Systems, Thanjavur is in operation which covers the following districts Thanjavur, Thiruvarur, Trichy, Nagapattinam, Pudukottai, Perambalur, Ariyalur & Sivagangai. 2. Another Facility in M/s. Ramky Energy And Environment Ltd, Salem is in operation which covers the following districts Salem, Namakkal, Erode, Dharmapuri, Krishnagiri & Karur.	

		in Gummidipoondi, Hosur and Tiruppur Districts. Total installed capacity of 10 CBMWTFs in Tamil Nadu which is in operation is 87.95 TPD (Incinerator & Autoclave)	

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

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

	Undurmikidakulam, Virudhunagar District.	
11.	M/s. Kovai Bio Waste Management Pvt Ltd., Orattukuppai, Coimbatore District.	Coimbatore, Tiruppur & Nilgiris Districts
12.	M/s. Pondicherry Solid Waste Management Company Private Limited, S.F.NO.275/2, T. Pudaiyur village, Virudhachalam Taluk, Cuddalore District	Ready for operation

TAMIL NADU POLLUTION CONTROL BOARD

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

Water Quality Status of Polluted River Stretches

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

Sl. No.	Name of station	Station Code No.	Feb-21		
			D.O mg/L	BOD at 27^0 C mg/L	Fecal coliform MPN/100 ml
1	Badrakaliamman koil	1201	6.5	<2	38
2	Sirumugai	1204	6.5	<2	26
3	Bhavanisagar	1321	6.4	<2	11
4	Bhavani	1205	6.4	<2	70
5	Sathyamangalam	3019	6.2	<2	12
6	Kalingarayan Canal (B5)	3020	6.0	<2	58
7	Kalingarayan Canal (B10)	3021	6.0	<2	170

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

TAMIL NADU POLLUTION CONTROL BOARD

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Water Quality Status of Polluted River Stretches

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

Sl.No.	Name of station	Station Code No.	Feb-21		
			D.O mg/L	BOD at 27^0 C mg/L	Fecal coliform MPN/100 ml
1	Mettur	50	6.9	<2	32
2	Pallipalayam	51	6.1	<2	130
3	Musiri Borewell	32	No Flow		
4	Musiri Ferry Gate	31	6.2	<2	33
5	Komarapalayam	3012	6.2	<2	120
6	Urachikottai	3013	6.1	<2	63
7	Seerampalayam	3014	6.2	<2	31
8	Pugalur	3045	4.3	4.2	250
9	Pettavaithalai	3016	6.3	<2	94
10	Kumbakonam	3017	6.5	<2	31
11	Mayiladurai	3018	6.1	<2	79
12	R.N. Pudur	1322	6.0	<2	33
13	Vairapalayam	1320	5.9	<2	17
14	P. Velur	1323	6.1	<2	79
15	Mohanur	1324	6.1	<2	70
16	Thirumukkudal	1451	4.5	4.1	260
17	Trichy Upstream	1202	6.3	<2	79
18	Trichy Downstream	1325	6.2	<2	210
19	Grand Anaicut	1203	6.4	<2	27

Standard limit for BOD <3 mg/L

Standard limit for Fecal coliform <500 MPN/100ml

Standard limit for DO 5.0 mg/l

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Water Quality Status of Polluted River Stretches

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

Sl. No.	Name of station	Station Code No.	Feb-21		
			D.O mg/L	BOD at 27^0 C mg/L	Fecal coliform MPN/100 ml
1	Edappadi (River)	3024	No Flow		

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

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Water Quality Status of Polluted River Stretches

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

Sl. No.	Name of station	Station Code No.	Feb-21		
			D.O mg/L	BOD at 27^0 C mg/L	Fecal coliform MPN/100 ml
1	Papanasam	1159	8.6	2.5	<1.8
2	Cheranmadevi	1160	8.2	2.2	7
3	Kokirakulam	1161	7.9	2.4	21
4	Murapanadu	1162	8.1	2.3	17
5	Thiruvidaimarudur	1328	8.3	2.4	4
6	Ambasamudram	1329	8.4	2.1	2
7	Authoor	1330	8.2	2.5	47
8	Eral	3025	7.4	2.2	34
9	Kallidaikurichi	3026	7.8	2.3	2
10	Srivaikuntam	3027	9	2.1	22
11	Vellakovil	3028	6.7	2.4	12
12	Seevalaperi	3029	7.5	2.2	17

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

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Water Quality Status of Polluted River Stretches

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

Sl. No.	Name of station	Station Code No.	Feb-21		
			D.O mg/L	BOD at 27^0 C mg/L	Fecal coliform MPN/100 ml
1	Uthamasolapuram (River)	3022	3.1	10	700

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

Deputy Director (Labs) - II

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Water Quality Status of Polluted River Stretches

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

Sl. No.	Name of station	Station Code No.	Feb-21		
			D.O mg/L	BOD at 27^0 C mg/L	Fecal coliform MPN/100 ml
1	Thulukkanur (River)	3023	No Flow		

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