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Compliance of OA 606/2018

SOLID WASTE & LIQUID WASTE MANAGEMENT STATUS

Government of Tamil Nadu

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Action Taken on the Direction Issued by Hon'ble NGT on 01.03.2024.

S.No	Comments	Action taken
1	Although the entire solid waste generated in the State (15,545 TPD) is stated to be collected and transported but, there is a gap of 311 TPD in Door-to-Door collection of waste and gap 2,332 TPD in waste segregation	<ul style="list-style-type: none"> The Massive drive – “Peoples movement for clean cities” is being conducted in all the ULBs on every 2nd and 4th Saturday to make cities clean and to bring about behavioral change among the people. Through IEC awareness campaign, efforts are being made to ensure 100% D2D collection. Currently the Source segregation gap has been reduced to 2,027 TPD.
2	There exists a gap of 1542 TPD in processing of wet waste and 2247 TPD in processing of dry waste. There is also part of inert waste to the extent of 1558 TPD which is currently being filled in low lying areas	<ul style="list-style-type: none"> The detailed report on steps taken to reduce the gap is given in the Table No.8, 9 and 10 of Chapter 2.6. (As per Status report submitted on 09.09.24)
3	There is a prospective plan to set up waste processing facilities for wet and dry waste. However, such facilities should be designed in accordance with waste generation and utilized rather than their over designing.	<ul style="list-style-type: none"> A comprehensive action plan was prepared for the year 2026 and approved by State High Powered Committee & National Advisory & Review Committee for the State. The gap in processing is arrived based on the waste projection and projects are proposed for the mission period 2021-2026.

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4	We find that 106.78 lakhs m3 of legacy waste is yet to be remediated and no definite timeline is disclosed for the complete remediation. Unprocessed waste, wet and dry, which is estimated to be 4,368 TPD should not be added every day as legacy waste. Therefore, waste processing and booming and remediation should be done concurrently. We also find it very surprisingly that in Chennai alone, 84 lakhs m3 legacy waste to be remediated. In fact, there is zero remediation disclosed for Kodungaiyur site having 73,91,672 lakh m3 of waste occupying 269 acres of area.	<ul style="list-style-type: none"> The biomining work at Kodungaiyur Dump site has been inaugurated by Hon'ble Chief Minister of Tamil Nadu on 24.02.24. Legacy waste Heaping, Machinery erection and EB connection works were completed and biomining process was initiated from 15.08.2024. 74% of Biomining works in Perungudi dumpsite has been completed. The contract has been cancelled due to poor performance of the contractor. Tender to be initiated for the remaining quantity. <table border="1"> <thead> <tr> <th>Name of the ULB</th> <th>Dumpsite Area (Acre)</th> <th>Waste Quantity (Cu.m)</th> <th>Quantity Remediated (Cu.m)</th> <th>Percentage of Completion (%)</th> </tr> </thead> <tbody> <tr> <td>Chennai (Kodungaiyur dumpsite)</td> <td>269</td> <td>73,91,672</td> <td colspan="2">Around 10,330 Cu.m of legacy waste has been bio-mined from 15.08.2024.</td> </tr> <tr> <td>Chennai (Perungudi dumpsite)</td> <td>225</td> <td>34,33,002</td> <td>25,71,732</td> <td>74*</td> </tr> <tr> <td>Chennai (Athipattu)</td> <td>12.00</td> <td>1,07,811</td> <td>1,07,811</td> <td>100</td> </tr> <tr> <td>Chennai (Pallikaranai)</td> <td>15.00</td> <td>40,853</td> <td>40,853</td> <td>100</td> </tr> <tr> <td>Chennai (Sathankadu)</td> <td>18.78</td> <td>1,25,635</td> <td>1,25,635</td> <td>100</td> </tr> </tbody> </table>	Name of the ULB	Dumpsite Area (Acre)	Waste Quantity (Cu.m)	Quantity Remediated (Cu.m)	Percentage of Completion (%)	Chennai (Kodungaiyur dumpsite)	269	73,91,672	Around 10,330 Cu.m of legacy waste has been bio-mined from 15.08.2024.		Chennai (Perungudi dumpsite)	225	34,33,002	25,71,732	74*	Chennai (Athipattu)	12.00	1,07,811	1,07,811	100	Chennai (Pallikaranai)	15.00	40,853	40,853	100	Chennai (Sathankadu)	18.78	1,25,635	1,25,635	100
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5	Still significant quantity of legacy waste is yet to be remediated at places like: Madurai, Dindugul, Karur and Chennai. TNPCB in accordance with MSW Rules, 2000 should file ground water quality profile and ambient air quality results around such major dump sites	<ul style="list-style-type: none"> The remediation progress for major dumpsites is stated below. <table border="1"> <thead> <tr> <th>Name of the ULB</th> <th>Dumpsite Area (Acre)</th> <th>Waste Quantity (Cu.m)</th> <th>Quantity Remediated (Cu.m)</th> <th>Status as on previous hearing (%)</th> <th>Percentage of completion on (%) as on Aug 2024</th> </tr> </thead> <tbody> <tr> <td>Madurai</td> <td>42.92</td> <td>4,82,934</td> <td>1,15,319</td> <td>11</td> <td>24</td> </tr> <tr> <td>Dindigul</td> <td>6.00</td> <td>1,10,975</td> <td>79,600</td> <td>4</td> <td>72</td> </tr> <tr> <td>Karur</td> <td>5</td> <td>1,19,300</td> <td>81,124</td> <td>8</td> <td>68</td> </tr> </tbody> </table> <ul style="list-style-type: none"> The ground water quality profile and ambient air quality results of above dump sites is enclosed in Annexure 17 (As per Status report submitted on 09.09.24). 	Name of the ULB	Dumpsite Area (Acre)	Waste Quantity (Cu.m)	Quantity Remediated (Cu.m)	Status as on previous hearing (%)	Percentage of completion on (%) as on Aug 2024	Madurai	42.92	4,82,934	1,15,319	11	24	Dindigul	6.00	1,10,975	79,600	4	72	Karur	5	1,19,300	81,124	8	68
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Karur	5	1,19,300	81,124	8	68																					
6	In case of Chennai, against 743 MLD of sewage generation existing treatment capacity is 912.80 MLD but, its current capacity utilization is not disclosed.	<ul style="list-style-type: none"> In Chennai, against 743 MLD of sewage generation existing treatment capacity increased from 912.80 to 1092.80 MLD. The current capacity utilization is 602.45 MLD. Details are enclosed in Annexure 5(As per Status report submitted on 09.09.24). 																								

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Action Taken on the Direction Issued by Hon'ble NGT on 01.03.2024.

S.No	Comments	Action taken																									
7	Out of 649 ULBs, we find that 94 ULBs are either having or will have Underground Sewage System (UGSS) but, no disclosure has been made on adopting the approach simultaneously to ensure timely connectivity by households to sewerage so that entire sewage is conveyed to the destined STPs	<ul style="list-style-type: none"> The Government of Tamil Nadu has sanctioned loan to ULBs to proceed with the internal plumbing connection from machine-hole to household. In all ULBs where UGD system is there, intense campaign to connect all the households to UGD is going on. The status of providing House Service Connection (HSC) status is given below. <table border="1"> <thead> <tr> <th>S.No</th> <th>Dept</th> <th>HSC connection given till 01-07-23</th> <th>HSC connection given till 31-08-24</th> <th>Increase in connection from 1-07-23 to 31-08-24</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CMWSSB</td> <td>4,83,767</td> <td>5,04,118</td> <td>20,351</td> </tr> <tr> <td>2</td> <td>DMA</td> <td>9,79,572</td> <td>12,77,417</td> <td>2,97,845</td> </tr> <tr> <td>3</td> <td>DTP</td> <td>15,970</td> <td>19,912</td> <td>3,942</td> </tr> <tr> <td colspan="2">Total</td> <td>14,99,660</td> <td>17,81,096</td> <td>3,22,138</td> </tr> </tbody> </table>	S.No	Dept	HSC connection given till 01-07-23	HSC connection given till 31-08-24	Increase in connection from 1-07-23 to 31-08-24	1	CMWSSB	4,83,767	5,04,118	20,351	2	DMA	9,79,572	12,77,417	2,97,845	3	DTP	15,970	19,912	3,942	Total		14,99,660	17,81,096	3,22,138
S.No	Dept	HSC connection given till 01-07-23	HSC connection given till 31-08-24	Increase in connection from 1-07-23 to 31-08-24																							
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3	DTP	15,970	19,912	3,942																							
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Action Taken on the Direction Issued by Hon'ble NGT on 01.03.2024.

S.No	Comments	Action taken
8	<p>a. With respect to 555 ULBs, predominant method of sewage management is through fecal sludge and septage management (FSSM) including grey water management. We direct that next report will disclose the characteristics of grey water and applicability in-situ remediation with performance assurance.</p> <p>b. We also direct that sewage management should be properly linked with river rejuvenation programs so that no sewage goes to rivers and treated effluent are fully utilized.</p>	<ul style="list-style-type: none"> • Grey water characteristics for the ULBs where the usedwater treatment facility was proposed in action plan is enclosed in Annexure 15. In-situ remediation projects are taken up as a pilot study in selected ULBs under SBM (U) 2.0 and DPR's are sanctioned in 8th SHPC for the year 2024-2025 (Kangayam, Thirumuruganpoondi, Thirukovilur, Palladam) and awaiting for CPHEEO comments. • The Government of Tamil Nadu has linked River rejuvenation programs with Sewage treatment. The State has 6 major river stretches covering 48 ULBs. In these river stretches, the State has taken up UGSS projects in Major corporations viz Salem, Tirunelveli, Trichy, Erode for a total cost of Rs.2558.47 crore, 1 Municipality for a cost of Rs. 83.03 crore. In 5 Town panchayats decentralized STPs are under implementation at a cost of Rs.5.07 crore. • Also the Government of Tamil Nadu is rejuvenating Cooum, Adyar and Buckingham Canal at a cost of Rs.2,371 crores which comes under Greater Chennai Corporation. The works are in various stage of implementation. • DPR preparation for River front and rejuvenation development is initiated in five cities (Coimbatore, Erode, Trichy, Madurai, Tirunelveli) to ensure no sewage reaches the rivers. • The State has taken initiatives to sign Memorandum of Understanding (MOU) with SIPCOT or other industries to reuse the treated water.
9	<p>We do not find performance of operational STPs and their characteristics in terms of fecal coliform and the final mode of disposal of sewage. Specific results in respect to performance of 45 MLD plant based on reverse osmosis be furnished for Chennai.</p>	<ul style="list-style-type: none"> • Specific results for performance of operational STPs and their characteristics in terms of fecal coliform, final mode of disposal of sewage is enclosed in Annexure 15 and 45 MLD plant based on reverse osmosis for CMWSSB is furnished in Annexure 16 (As per Status report submitted on 09.09.24).

Solid Waste Management

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In Tamil Nadu, Municipal Administration and Water Supply Department has the administrative control over **649 ULBs** viz

- Greater Chennai Corporation
- Directorate of Municipal Administration (20 Corporation & 138 Municipalities)
- Directorate of Town Panchayat (490 TPs)

Details	Nov-22	Aug-24
Quantity of waste generated (TPD)	15,240	15,545
Quantity of Door-to-Door Collection (TPD)	14,788	15,234
Quantity of waste segregated at source (TPD)	12,954	13,518
Quantity of waste collected and transported (TPD)	15,240	15,545
Quantity of waste processed (TPD)	10,086 (66%)	11,638 (75%)

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Status of Solid Waste Management in Tamil Nadu

Description	November – 2022	August – 2024
Total Waste Generation (TPD)	15,240	15,545
Waste Processed (TPD)	10,086 (66%)	11,638 (75%)
Gap in TPD	5,154 (34%)	3,907 (25%)
Wet Waste		
Generation (TPD)	8,196	8,358
Processed (TPD)	6,188 (75%)	6,979 (84%)
Gap	2,008 (25%)	1,379 (16%)
Dry Waste		
Generation (TPD)	5,519	5,629
Processed (TPD)	2,973 (54%)	3,642 (65%)
Gap	2,546 (46%)	1,987 (35%)
Inert		
Generation (TPD)	1,525	1,558

Solid Waste Management - Wet Waste Processing

Wet Waste Processing Facilities as on Aug - 2024

Sl.No.	Available wet waste processing facilities	No. of functional units	Processing Capacity (TPD)
1	Micro Composting Centres	1,033	3790
2	Bio CNG plants	2	200
3	Garden waste and tender coconut shell processing plants	4	320
4	Processed through Service provider (GCC)		250
5	Onsite Composting Centres	907	350
6	Bio-methanation plants	107	259
7	Windrows and Vermi Composting centres	588	1,810
Total			6,979

Reference: Report Submitted on 09.09.2024, Pg. No 11, Table No - 4

The total wet waste processing capacity has increased from 6188 TPD to 6979 TPD as of August 2024.

Solid Waste Management - Wet Waste Processing

Approach to reduce gap in Wet Waste processing

Components	No of project ongoing	Capacity (TPD)	Estimated Amount (in Rs. cr.)	Status
Bio CNG (GCC)	5	500	150.00	Under Construction
	2	1,000	180.00	Perungudi- DFR is under preparation & Kodungaiyur – Tender is opened and under technical evaluation
Bio CNG (DMA)	7	890	160.20	Madurai, Coimbatore, Salem, Trichy, Tiruppur, Tambaram,- Tender is opened and under technical evaluation.
Micro Composting Centre – Ongoing works	88	449	51.63	All Works are under various stages of implementation
Windrows composting – Ongoing Works	95	177	20.35	All Works are under various stages of implementation
Compost plant (GCC)	2	1000	80.50	Perungudi- DFR is under preparation & Kodungaiyur – Tender is opened and under technical evaluation
Total	199	4016	642.68	

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Wet Waste Processing Facilities

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Periyakulam-MCC



Vadalur -MCC



Guduvanchery -MCC



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Tiruvarur Source Segregation

Solid Waste Management - Dry Waste Processing Facilities

Dry Waste Processing Facilities Status as on Aug - 2024

Sl.No.	Available dry waste processing facility	Mode of Disposal	Processing Capacity (TPD)
1	Material Recovery Facilities/Resource recovery centres	Non-recyclable waste disposed to cement industries.	2,348
2		Saleable/recyclable waste is sold to local vendors	1,204
3		Non-recyclable is incinerated at incineration plants of GCC	90
Total			3,642

Reference: Report Submitted on 09.09.2024, Pg. No 12, Table No - 5

The total dry waste processing capacity has increased from 2,973 TPD to 3,642 TPD as of August 2024.

Solid Waste Management- Dry Waste Processing Facilities

Approach to reduce gap in Dry Waste processing

Components	No of project ongoing	Capacity (TPD)	Estimated Amount (in Rs. cr.)	Status
Material Recovery Facilities – Ongoing works	195	1445	122.80	<ul style="list-style-type: none"> 191 works are in various stages of implementation. Automated MRF – Approved for 2 corporations Tambaram & Trichy under PPP model. Remaining 2 corporations are proposed in clustered approach.
Waste to Energy	2	700	61.28	<ul style="list-style-type: none"> Coimbatore-Tiruppur Cluster & Madurai- Based on the pre-feasibility financial analysis, Waste to energy is proposed.
Material Recovery Facilities -Automated (GCC)	2	1,000	180.00	<ul style="list-style-type: none"> Perungudi- DFR is under preparation & Kodungaiyur – Tender is opened and under technical evaluation
Waste to Energy (GCC)	1	1,500	270.00	<ul style="list-style-type: none"> Kodungaiyur – Tender opened and under technical evaluation
Total	200	4,645	634.08	

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Dry Waste Processing Facilities ³¹⁶⁰



Vedaranyam - MRF



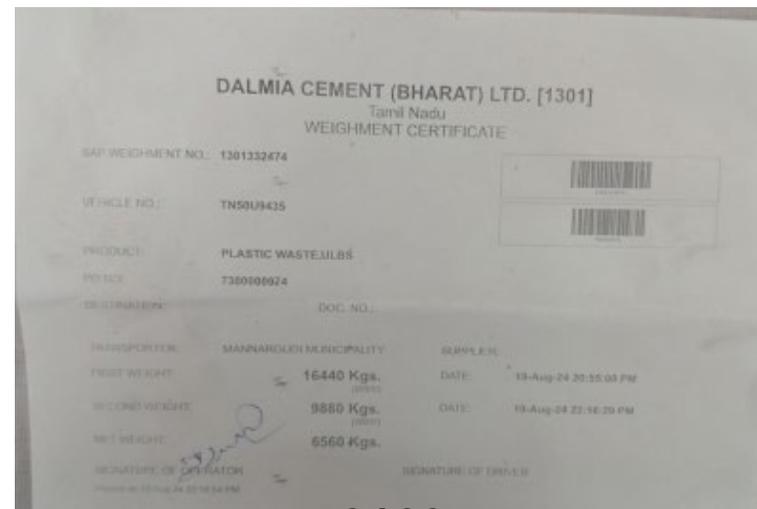
Ambasamudram - RDF disposal



Tiruvallur -MRF



Srivilliputur - MRF



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Mannargudi - RDF disposal



Tiruvarur -MRF

Legacy Waste - Biomining

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Status as on Nov - 2022

No. of locations	Quantity in lakh cu.m	100% Completed		In progress		Total legacy waste cleared so far in lakh cu.m	Balance quantity to be cleared cu.m	Funds committed	
		Locations	Qty in lakh cu.m	Locations	Cleared Qty in lakh cu.m			Cost in Rs. Cr	Source
269	207	91	43.40	178	42.19	85.59* (41.3%)	121.41	1,066.94	SBM 2.0

*- 43.40 lakh cu.m is cleared from 91 locations where 100% work completed and 42.19 lakh cu.m is cleared from 178 locations where work is in progress.

Status as on Aug- 2024

No. of locations	Quantity in lakh cu.m	100% Completed		In progress		Total legacy waste cleared so far in lakh cu.m	Balance quantity to be cleared cu.m	Amount	
		Locations	Qty in lakh cu.m	Locations	Cleared Qty in lakh cu.m			Cost in Rs. Cr	Source
289	224	192	85.11	97	43.40	128.51* (57.4%)	95.95	1,108.2**	SBM 2.0

*- 85.11 lakh cu.m is cleared from 192 locations where 100% work completed and 1,080 acres of land has been reclaimed. 43.40 lakh cu.m is cleared from 97 locations where work is in progress.

** Actual cost subject to change based upon the actual assessed quantity

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Legacy Waste - Biomining

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Remediated Legacy Waste Fraction Details

S. No	No. of ULBs completed	Quantity Remediated (Cu.m)	Fine soil Qty (Cu.m)	Inert/Course soil and Stone (Cu.m)	RDF recovered (Cu.m)	Other Fractions (Cu.m)	RDF disposed
1	192	85,11,319	35,82,000	27,61,000	16,27,000	47,229	Cement industries

Reference: Report Submitted on 09.09.2024, Pg. No 15, Table No - 11

Abstract of Biomining Works

Sl.No	Progress in Percentage	No. of locations	Total quantity in lakhs Cu.m	Legacy waste cleared in lakhs Cu.m	Balance legacy waste to be cleared in lakh cu.m
1	100%	188	85.11	85.11	0
2	> 75%	24	10.54	9.59	0.95
3	50 - 75%	22	43.96	31.86	12.12
4	25 - 50%	8	1.28	0.528	0.75
5	0 - 25%	47	83.56	1.43	82.13
Total		289	224.45	128.518	95.95

Reference: Report Submitted on 09.09.2024, Pg. No 16, Table No - 12

Legacy Waste – Biomining Snapshots

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Before



After

Sembakkam



Before



After

Area Cleared by Biomining

Aduthurai TP

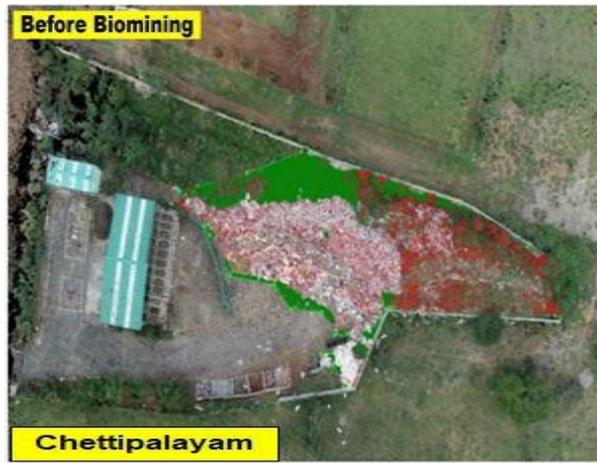


Before



After

Sankarankovil



Before Biomining



After Biomining

Cleared Area

Chettipalayam

Chettipalayam TP

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Liquid Waste Management

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Category	Quantity of sewage generation (MLD)	Current treatment capacity (MLD) August 2024	Utilization (MLD) Aug 2024	Current gap in treatment (MLD) August 2024	Utilization of treated sewage (MLD)	
					Agriculture/ Horticulture Purpose	Industrial purpose
Chennai city-CMWSSB	743.00	1,092.80	602.45	-	0.20	83.33
Directorate of Municipal Administration	1,698.73	1,252.57	492.14	446.16	36.50	44.00
Directorate of Town Panchayat (DTP)	429.29	84.13	65.77	345.16	6.82	-
Directorate of Rural Development and Panchayat Raj (DRD&PR)	1,130	1,056.26	1,056.26	73.74	-	-
Total	4,001.02	3,485.76	2,216.62	865.06	43.52	127.33

Liquid Waste Management - DMA 3165

DMA - Liquid Waste Treatment Facilities as on Aug 2024

Sl. No.	Category	No. of ULBs	Capacity of the plant (MLD)
1	STP with UGSS	70	1252.7

DMA - Approach to reduce the Gap

Sl. No.	Category	Capacity of the plant (MLD)	Cost in Rs. Cr	Status
1	STPs with UGSS (6 Locations)	103.6	172.75	Under construction
2	STPs with UGSS (6 Locations)	274.57	778	Tender Called out
3	FSTPs (7 locations)	0.17	22.51	Under construction
4	STP cum FSTP (11 Locations)	33.80	108.93	Under construction
5	STP/STP cum FSTP (22 Locations)	121.06	337.17	Tender stage
6	STP/STP cum FSTP (11 Locations)	30.08	109.31	Sanctioned in 8 th SHPC and yet to tender out
7	STP/STP cum FSTP (7 locations)	44.8	86.42	DPR under preparation
Total		608.08	1,615.09	

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Liquid Waste Management - DMA 3166

Status of UGSS

Sl. No.	Category	No. of ULBs	Capacity of the plant (MLD)	Cost in Rs. Cr	Status
1	CMWSSB	1 (27 locations)	-	3029.62	Under Implementation for UGD system
2	DMA	37	145.95	7435.1	Under Implementation
3	DMA	11	201.79	2320.32	Sanctioned
	Total	49	347.74	12785.04	

Reference: Report Submitted on 09.09.2024, Annexure -12

DTP - Liquid Waste Treatment Facilities as on Aug 2024

Sl. No.	Category	Capacity of the plant (MLD)
1	UGSS/STP (16 Locations)	45.47
2	FSTP (10 Locations)	0.17
3	On-site Treatment (12 Locations)	3.00
4	Individual Soak Pits (51 Locations)	34.72
5	Community Soak Pits (8 Locations)	0.77
Total		84.13

Liquid Waste Management - DTP 3168

DTP - Approach to reduce the Gap

Sl. No.	Category	Capacity of the plant (MLD)	Cost in Rs. Cr	Status
1	Grey water treatment units along Polluted River Stretches (5 Locations)	8.79	5.07	Under Construction
2	STP (9 Locations)	10	36.19	Under Construction
3	STP cum FSTP (6 Locations)	7.07	37.24	Under Construction
4	STP cum FSTP (125 Locations)	254.00	685.56	Land needs to be identified, and the DO letter is communicated to Collectors for the same
5	Grey water Treatment (262 Locations)	463.80	1,264.10	In situ treatment facility will be created for grey water as and when land is available.
6	STP cum FSTP (22 Locations)	26.22	151.66	Sanctioned for the year 2024-25 and are in various stages of implementation
Total		769.88	2,179.82	

Liquid Waste Management - CMWSSB & DRD

CMWSSB - Liquid Waste Treatment Facilities as on Aug 2024

Sl. No.	Category	No. of locations	Capacity of the plant (MLD)
1	STP	22	1092.80

DRD - Liquid Waste Treatment Facilities as on Aug 2024

Sl. No.	Category	Available Nos	Capacity (MLD)
1	Kitchen Garden	30,80,271	616.05
2	Individual Soak Pits	13,85,320	207.80
3	Community Soak Pits	74,460	29.78
4	Vertical Filters	8,976	44.88
5	Horizontal Filters	4,706	28.24
6	Other Grey Water Management Facilities	1,295	129.50
Total		45,55,028	1,056.26

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Liquid Waste Management - DRD 3170

DRD - Approach to reduce the Gap

Sl. No.	Category	Capacity (MLD)	Cost in Rs. Cr	Fund Source	Status
1	Individual Soak Pits (4,33,419 Nos)	65.01	589.75	MGNREGS	Projects under various stages of Implementation
2	Community Soak Pits (72,715 Nos)	29.09	120.12	SBM (G) / 15 th FC / MGNREGS	
3	Vertical Filters (4,381 Nos)	21.91	66.51	SBM (G) / 15 th FC / MGNREGS	
4	Horizontal Filters (5,254 Nos)	31.52	99.28	SBM (G) / 15 th FC / MGNREGS	
5	Other Grey Water Management Facilities (124 Locations)	12.40	5.57	SBM (G) / 15 th FC	
Total		159.92	881.22		

Faecal Sludge Treatment Plants

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Kulithalai - FSTP



Vickramasingapuram



Gudiyatham



3171

Srivilliputhur

Sewage Treatment Plants



Ambur - STP

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UWM Works Snapshots



Check In Rajapalayam, Tamil Nadu, India
FH3H+4JX, Rajapalayam, Tamil Nadu 626117, India
Lat 9.453029°
Long 77.579981°
09/09/24 03:54 PM GMT +05:30

GPS Map Camera

Status of Amount Earmarked

3174

Rs. In crore

Component	Committed Works on Nov 2022		Works taken up till now	
	Capacity	Project Cost	Capacity	Project Cost
Solid Waste Management	9,066 TPD	1,222.05	9617 TPD	1287.5
Legacy Waste	207 lakh cum	1,066.94	224.40 lakh cum	1185.94
Liquid Waste Management	1,623.07 MLD	4,200.07	658.14	1723.41
Under Ground Sewerage system	-	8,930.65		12,785
Total		15,419.71	-	16,981.85

Reference: Report Submitted on 09.09.2024, Pg. No 23

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Thank you

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