

☎: General: 0471- 2312910, 2318153, 2318154, 2318155 Chairman: 2318150 Member Secretary: 2318151
e-mail: chn.kspcb@gov.in; ms.kspcb@gov.in FAX: 2318152 web: kspcb.kerala.gov.in



KERALA STATE POLLUTION CONTROL BOARD

കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്

Pattom P.O., Thiruvananthapuram – 695 004

പട്ടം പി.ഒ., തിരുവനന്തപുരം - 695 004



KSPCB/154/2023-EE-3

Date:21/10/2023

From

Member Secretary

To

The Member Secretary,
Central Pollution Control Board,
Parivesh Bhavan,
East Arjun Nagar,
New Delhi – 110032

Sub: Annual Report 2022-2023 on implementation of Solid Waste Management
Rules, 2016- reg
Ref: Solid Waste Management Rule 2016.

Sir,

Annual Report for the year (2022-2023) as per the provision of 24 (3) of the Solid
Waste Management Rules, 2016 is submitted herewith.

Yours faithfully,

MEMBER SECRETARY

Form V

[See rule 24(3)]

(Format of annual report to be submitted by the State Pollution Control Board or Pollution Control Committee to the Central Pollution Control Board)

PART A

To

The Chairman , Central Pollution Control Board,
Parivesh Bhawan, East Arjun Nagar DELHI- 110 0032

ANNUAL REPORT '2022 – 2023'

1)	Name of the State/Union territory	Kerala
2)	Name & address of the State Pollution Control	Kerala State Pollution Control Board Plamoodu, Pattom P.O., Thiruvananthapuram, Kerala - 695004
3)	Number of local bodies responsible for management of solid waste in the State/Union territory under these rules	93 (6 corporation; 87 Municipality)
4)	No. of authorization application Received	84
5)	A Summary Statement on progress made by local body in respect of solid waste management	Attached as Annexure I .
6)	A Summary Statement on progress made by local bodies in respect of waste collection, segregation, transportation and disposal	Attached as Annexure II for Urban Local Bodies Annexure II A for Rural Local Bodies
7)	A summary statement on progress made by local bodies in respect of implementation of Schedule II	Attached as Annexure III
8)	Date: /10/2023 Place:Thiruvananthapuram	Chairman or Member Secretary State Pollution Control Board/ Pollution Control Committee

PART B

Towns/cities

Total number of Town's / Cities: **6 Corporations & 87 Municipalities**

Total number of ULBs: **93**

Number of class I & class II cities/towns: **Class I- 16; Class II- 23**

Authorization status (names/number)

Number of applications received: **84**

Number of authorizations granted:54

Authorizations under scrutiny: **23**

SOLID WASTE Generation status

Solid waste generation in the state (TPD): **3472 TPD**

Collected: **2096.19 TPD , 1134.81 TPD disposed through Decentralized facilities**

Treated: **3231 TPD**

Land filled: Nil (there is no sanitary landfill in the State)

Compliance to Schedule I of SW Rules (Number/names of towns/capacity)

Good practices in cities/towns: House-to-house collection:

Segregation:

Storage

Covered transportation

Windrow composting, Vermi composting, aerobin, biogas plants, kitchen bins, bio composter, Biobins, pipe compost, ring compost, compost pits, Material Collection facilities, Resource. Material collection and recovery facilities are provided. (Details attached as **Annexure I for Urban Local Bodies**).

Processing of SW (Number/names of towns/capacity) Solid Waste

processing facilities setup:

Sl.No.	Composting	Vermi-composting	Biogas	RDF/Pelletization
1	Centralised windrow composting plants - 2(Large); 21(Small)	Community level-10	Community level-287, Household level- 21,550	Nil
2	Community level- 773 (aerobin, Biobins)			
3	Household level- 411,009			

Processing facility operational

Sl.No.	Composting	Vermi-composting	Biogas	RDF/Pelletization
1	Centralised windrow composting plants - 2(Large); 12(Small)	Community level-7	Community level-287, Household level- 21,550	Nil
2	Community level- 869 (aerobin, Biobins)			
3	Household level- 411,009			

Processing facility under installation/planned:

Sl.No.	Composting	Vermi-composting	Biogas	RDF/Pelletisation
1	Being Planned/installation for decentralized units		Being planned/installation for decentralized units	

Waste-to-Energy Plants: (Number/names of towns/capacity)

Sl.No.	Plant Location	Status of operation	Power Generation (MW)	Remarks
1.	Thiruvananthapuram	Land is not yet identified.		
2	Kollam	Bioming of legacy waste completed	Bio methanation at 200 TPD	DPR approved
3	Kochi	Bioming of legacy waste completed (25%)		
4	Munnar	Work awarded		
5	Thrissur	Land is yet to be identified		
6	Palakkad	Land taken over from KSEB Ltd.	CBG - 4018 Kg/ day	Project is ready to commence
7	Malappuram	Land identified		
8	Kozhikode	Work awarded – Construction to be started after monsoon	6 MW	Construction to be started Bioming of legacy waste 75% completed being done
9	Kannur	Work awarded	Tendering completed .	DPR stage Bioming 75% completed.

Disposal of solid waste (number/names of towns/capacity):

Landfill sites identified: 1 (One at the regional level at Ernakulum)

Landfill constructed: Nil

Landfill under construction: 1

Landfill in operation: Nil

Landfill exhausted: Nil

Land filled capped: Nil

Solid Waste Dumpsites (number/names of towns/capacity): (list enclosed) Annexure: IA

Total number of existing dumpsites: 44

Dumpsites reclaimed/capped: Nil

Dumpsites converted to sanitary landfill: Nil

Monitoring at Waste processing/Landfills sites

Sl.No.	Name of facilities	Ambient air	Groundwater	Leachate quality	Compost quality	VOCs
1	Water samples from Quarry pond near Kothamangalam dumping yard at Kothamangalam Municipality.		Analysis Report attached as Annexure III			
2	Well water sample from the dumpsites of Thalassery municipality ,Payyanur Municipality and Chelora Trenching ground of Kannur Corporation.		Analysis Report attached as Annexure III			
3	Well water sample from the dumpsites at Njelimparambu of Kozhikkode Corporation and Vadakara Municipality		Analysis Report attached as Annexure III			
4	Water sample from the dumpsites of Pandalam Municipality.		Analysis Report attached as Annexure III			
5	Water sample from the wells from dumpsite at Vidhyanagar , Kasargode Municipality		Analysis Report attached as Annexure III			
6	Water sample from the open wellswithin the dumpsite of Kalpetta Municipality		Analysis Report attached as Annexure III			
7	Water sample from the open wells within the dumpsite of Manjeri, Malappuram , Tirur dumpsites		Analysis Report attached as Annexure III			
8	Water sample from wells of Paravur Municipality.		Analysis Report attached as Annexure III			

Status of Action Plan prepared by Municipalities Total

Number of Corporations/municipalities: 97

Number of Action Plan submitted: Being submitted

ANNEXURE I

SUMMARY STATEMENT ON PROGRESS MADE BY LOCALBODY IN RESPECT OF SOLID WASTE MANAGEMENT

The Government of Kerala has taken efforts to implement the Solid Waste Management Rules, 2016 in the State. There are 6 Corporations, 87 Municipalities and 941 GPs in the State. The Kerala State Pollution Control Board (KPSCB) issued repeated directions to all local bodies to ensure compliance of the Solid Waste Management Rules, 2016. 3472 TPD of solid waste is generated from the cities and towns. The status of the present facilities is given below:

FACILITY	TYPE OF PLANT	NUMBER	DETAILS
Centralised Plant	Windrow composting plants(large)	2	<ol style="list-style-type: none"> 1. Kochi Corporation(25 TPD) 2. Kozhikode Corporation (100TPD)
	Windrow composting plant(Small)	21	<ol style="list-style-type: none"> 1. Attingal (15 TPD) 2. Adoor (1 TPD) 3. Kothamangalam (4 TPD) 4. North Paravur (1TPD) 5. Chalakudy (2 TPD) 6. Irinjalakuda (4TPD) 7. Kodungallur (4 TPD) 8. Kunnamkulam (9TPD) 9. Wadakkanchery (10 TPD) 10. Guruvayoor (5 TPD) 11. Palakkad (10 TPD) 12. Chittur-Thathamangalam (5 TPD) 13. Pattambi (3 TPD) 14. Shornur (5 TPD) 15. Ottappalam (5 TPD) 16. Perinthalmanna (2 TPD) 17. Kalpetta(4 TPD) 18. Mattanur (2 TPD) 19. Koothuparamba (5 TPD) 20.. Iritty (2 TPD) 21.. Thaliparamba (1.5 TPD)
CommunityLevel	Vermi composting plants(Small)	10	<ol style="list-style-type: none"> 1. Attingal (0.25TPD) 2. Kattapana (0.5 TPD) 3. Mattanur (5 TPD) 4. North Paravur (1 TPD) 5. Chavakkad (2 TPD) 6. Chalakkudy (0.5 TPD) 7. Koothuparamba (1 TPD) 8. Perinthalmanna (2 TPD) 9. Manjeri (0.5TPD) 10. Kuthuparamba(1TPD)
	Aerobins	773	

	Biogas plants	287	
	Bobbins in flats	500+	1. Thiruvananthapuram, 2. Ernakulam, 3. Thrissur
	Material Collection Facility	1270	
	Resource recovery facility	77	
House holdLevel	Pipe compost	1,31,559	Total- 392173
	Kitchen bin	79,146	
	Biogas plant	21,550	
	Bio-composter, Biobins, pot bin	1,09,441	
	Ring compost	40,036	
	Bucket compost	6,903	
	Compost pit	3538	
Institutional level	Biogas plants, aerobins, biobins	28406	
Rendering plant	Rendering plant	48 units	.862.25 TPD
Steel mills	Scrap recycling	18 units	
Plastic recycling units	Plastic recycling units	187 units	200 TPD
Road tarring	Used for road construction by PWD and LSGD		10 TPD

STATUS OF SETTING UP OF WASTE to ENERGY PLANT

Status report of Waste to Energy Plant				
Sl. No.	Waste to Energyplant	Land Identified	Procured	Status
1	Kozhikode Njaliyanparambu	Kozhikode corporation	(Govt. land)12.67acre at Njaliyanparambu	<ul style="list-style-type: none"> · Work awarded to Zonta Infratech Private Limited for the construction of Waste to Energy Plant. · Consent to establish was issued to Malabar Waste Management Private Limited on 12-8-2020 with a validity upto 30-6-2023 for the generation of 6MW electricity and 20T of compost. · Biomining of legacy waste is 75% complete. The total area for biomining is 1.8 acres. · All licenses from the corresponding departments were obtained for the construction of waste to energy plant. Preliminary site work started. Financial closure is expected to be achieved by the end of the month. <p style="text-align: center;">Work will be started only after monsoon.</p>
2	Kannur Chelora	Kannur Corporation	(Govt. Land) 9.7 acres at Chelora	<ul style="list-style-type: none"> · Work of WtE plant can be started only after the work of biomining is carried out. WtE plant is proposed in 9.7 acres of land after clearing the legacy waste. · Tendering completed and DPR prepared by Blue planet. Consent application is yet to be received. · For biomining, volume of legacy waste – 1,22,844 m³ (NIT). First given to Zonta and they asked to revise the amount of biomining. Again retendered and identified a suitable contractor, Jan-Adhar Sevabhavi Sanstha. Bio mining already started. <p style="text-align: center;">Agreement to be executed Biomining is already started (6500 cum is biomined (50%).</p>
3.	Palakkad Kanjikode	Palakkad Municipality	Land taken over from Kerala State Electricity Board Ltd. in advance possession 15 acres at Kanjikode	<ul style="list-style-type: none"> · Blue Planet Palakkad Waste Solutions Private Limited was formed to take up the development of the project. · Consent to establish was issued on 21-12-2021 to the project with a validity upto 30-11-2023. · 200T of municipal solid waste will be processed.

4	Kollam Kureepuzha	Kollam Corporation	7.05 acres at Kureepuzha (Govt. land)	<ul style="list-style-type: none"> · The SPV constituted for setting up of the Waste to Energy Plant of Kollam Corporation, · M/s. Venad Waste Management Private Limited had applied for Consent to Establish on 09.09.2021. The proposed waste to energy plant is bio methanation based and is having a capacity of 200 TPD. · Consent to establish was issued to project on 10-1-2022 with a validity upto 9-1-2025 for the production of 8.165TPD of compressed biogas from 200TPD of municipal solid wastes · Biomining of legacy waste completed. · Financial closure for waste to energy plant is expected to be achieved by December 2022.
5	Ernakulam Brahmapuram	Kochi corporation	20 acres at Brahmapuram (Govt. land)	<ul style="list-style-type: none"> · Bio mining of legacy waste is progressing. 25% completed. · For construction of Waste to Energy plant, work order was issued to M/s. Zonta Infra Tech. A meeting was convened on Hon'ble Minister chamber on 17/12/2022 ,and decision as follows. · Corporation has been exempted from paying annual installment for 20 acres of land, which has been leased out to KSIDC for waste to Energy plant under public private partnership from subsequent annual fund. · Tipping fee amount shall be obtained by increasing user fee collection from residential area and also by enhancing property tax by 8%.. · Above decision has put to council for approval. ·
6	Thrissur	Thrissur corporation		Land is yet to be Identified .Biomining 45% completed.
7	Malappuram	Malappuram munciplaity	8.09 acres of land at Kurumbathoor village in Tirur Taluk	<ul style="list-style-type: none"> · 8.09 acres of land identified by District Administration at Kurumbathur village. Tirur taluk for setting up of WtE plant. The land is under possession of KSIDC. Details of this are reported to be submitted to Government already by LR Deputy Collector.
8	Thiruvananthapuram	Thiruvananthapuram Corporation		<ul style="list-style-type: none"> · Land is not yet identified.

The progress achieved is as follows:

- Setting of Waste to energy plants at 8 locations is at various stages
- Single use plastic products were banned all over the State and action being taken for its strict implementation. Task force for the elimination of SUP Action Plan is being prepared by the Task Force.
- Implementation of EPR registration under Solid Waste Management Rules, 2016 for the collection of EPR fee for meeting the expenditure of Door-to-door collection by the local bodies is in an advanced stage. Development of online portal is also under progress.
- In the State, for a Regional Sanitary Landfill ,25 acre of land has been earmarked by KINFRA at site of FACT at Ernakulam and action is being carried out to set up. Another secured landfill is under construction in Attingal Municipality.

Annexure - IA

DUMPSITES IN KERALA AS ON AUGUST 2023

In Kerala there are no live dump sites. Biomining is now ongoing in 9 sites, Work order has been given in 3 sites, tender proceedings are ongoing in another 5 sites, feasibility study has been completed and tender process initiated in 19 sites. details of dump sites is as below.

Details of the Dumpsites			
Sl. No.	Name of Local Body	Name of Location	Volume of waste (in m3)
1	Attingal	Chudukad	18500 (1 st phase completed)
2	Kottarakkara	Ugrankunnu	8245 (feasibility study has been completed & tender process initiated)
3	Kayamkulam	Murukkummoodu	9129(feasibility study has been completed & tender process initiated)
4	Alappuzha	Sarvodaya Puram	22500 (40 % completed)
5	Kottayam	Vadavathoor	86662 (1st phase completed)
6	Changanacherry	Fathimapuram	7300 (tender proceeding are ongoing)
7	Erattupetta	Thevarrupara	77058(feasibility study has been completed & tender process initiated)
8	Kattappana	Puliyamala	9500 (tender proceeding are ongoing)
9	Thodupuzha	Parakkadavu	28000(feasibility study has been completed & tender process initiated)
10	Kochi	Brahmapuram	551903 (work order issued)
11	Kalamasseri	Kalamasseri	33569(feasibility study has been completed & tender process initiated)
12	Muvattupuzha	Kurianmala	31995 (feasibility study has been completed & tender process initiated)
13	North Paravoor	Vedimara	11860 (feasibility study has been completed & tender process initiated)
14	Kothamangalam	Kumbalathumuri	21295 (work order issued)

15	Thrissur	Laloor	51634 (60 % completed)
16	Kodungalloor	T.K.S.Puram	1214.055 (20% completed)
17	Kunnamkulam	Kunnamkulam	28934 (feasibility study has been completed & tender process initiated)
18	Chalakydy	Near take a break, near Cosmos Club	4399 (tender proceeding are ongoing)
19	Wadakkanchery	Kumbalangad	25238 (feasibility study has been completed & tender process initiated)
20	Chavakkad	Chavakkad	4210 (70% completed)
21	Irinjalakuda	Manjadikkunnu, Porathissery	7459.119 (work order issued)
22	Palakkad	BPL Junction, Kootupatha, Kodumba	76192 (feasibility study has been completed & tender process initiated)
23	Ottapalam	Panamanna	3000 (22% completed)
24	Kozhikode	Njaliyan Parambu	130000 (75 % completed)
25	Vadakara	Puthiyappa	29765 (feasibility study has been completed & tender process initiated)
26	Malappuram	Near Inkel City, Ward 38, Puli	7936 (feasibility study has been completed & tender process initiated)
27	Manjeri	Vettekkode	15433 (feasibility study has been completed & tender process initiated)
28	Kannur	Chelora	120323 (56% completed)
29	Mattannur	Karithurparamba	19600 (feasibility study has been completed & tender process initiated)
30	Kuthuparamba	Palapparamba	15101 (tender proceeding are ongoing)
31	Iritty	Athithattu	3800 (feasibility study has been completed & tender process initiated)
32	Payyannur	Moorikkovval	2625 (tender proceeding are ongoing)
33	Thalassery	Punnol Petty Palam	56788 (feasibility study has been completed & tender process initiated)
34	Kasaragod	Kelugudde	11226.368 (feasibility study has been completed & tender process initiated)

35	Kanhangad	Trenching Ground Chemmathamvaya 1	5600 (feasibility study has been completed & tender process initiated)
36	Kalpetta	Vellaramkunnu	9485 (feasibility study has been completed & tender process initiated)
	Total	m3	1547478.54
		tonnes	773739.27

Annexure II

Thiruvananthapuram

Sl.No	District	Localbody	Population as per 2011 Census	Quantity of Waste generated based on population (TPD)	Percentage of D2D Collection(Dry waste)		No of collectors	As reported by localbodies		Waste treatment technology used	Institutional level SWM Plants	Community Level SWM Plants	Household Level SWM Plants (As reported by Local Bodies)	Centralized	Non-Bio Degradable Waste Management
					Household (%)	non-residential premises (%)		Quantity of waste Collected (TPD)	Quantity of waste processed (TPD)						
	Thiruvananthapuram	Thiruvananthapuram Corporation	969298	426.75	82	82	981	75	75	Composting	Biogas plants	Thumpoormuzhi	Biobins/pipe composting/pit composting		
		Attingal Municipality	37982	19.75	80	88	45	12	12	Composting	Biogas plants	Thumpoormuzhi	Biobins/pipe composting/pit composting	Windrow composting	
		Nedumangad Municipality	60800	25.75	85	100	60	20.35	20.35	Composting	Biogas plants	Thumpoormuzhi	Biobins/pipe composting/pit composting		
		Neyyattinkara Municipality	72034	30.75	80	85	85	22.275	22.275	Composting	Biogas plants	Thumpoormuzhi	Biobins/pipe composting/pit composting		
		Varkala Municipality	40048	15.75	80	100	31	10.8	10.8	Composting	Biogas plants	Thumpoormuzhi	Biobins/pipe composting/pit composting		

518.75

Kollam

Sl.No	District	Localbody	Population as per 2011 Census	Quantity of Waste generated based on population (TPD)	Percentage of D2D Collection(Dry waste)		No of collectors	As reported by localbodies		Waste treatment technology used	Institutional level SWM Plants	Community Level SWM Plants	Household Level SWM Plants (As reported by Local Bodies)	Centralized	Non-Bio Degradable Waste Management	Site identified for Sanitary land fill	Dump sites identified	Authorizations applied	Authorizations granted	Annual report (Form IV)
					Household (%)	non-residential premises (%)		Quantity of waste Collected (TPD)	Quantity of waste processed (TPD)											
1	Kollam	Kollam Corporation	348,657	143.75	82	82	223	1.2	1.2			Thumboormuzhi -aero composting: 130 nos, Punthalathazham 4 biobins			RRF: 2, MCF: 8 nos, Mini MCF: 200Nos	Cleared	Yes	Yes	No	
2		Kottarakkara Municipality	30055	12.95	62	62	42	1.5	1.5	Aerobic composting	Thumboormoozhi: 7	Thumboormuzhi : 5 nos			RRF:1, MCF:1,	NIL	Yes	Yes	No	
3		Punalur Municipality	46702	16.75	92	92	121	9	4.5	Aerobic composting (THUMBOOR MOOZHI-COMMUNITY LEVEL) , BIOGAS PLANT, PIPE COMPOSTING (RESIDENCES)	THUMBOOR MOOZHI: 5	THUMBOOR MOOZHI: 27	PIPE COMPOST: 5000, BIOGAS PLANT: 1250		4 TPD RRF:1, MCF:1,	NIL	Yes	Yes	No	
4		KARUNAGAPALLI MUNICIPALITY	47483	18.75	50	50	64	1	1	COMPOSTING		PROPOSED 3 AEROBIC BIN	RING COMPOST: 7463, BIOGAS PLANT: 26, PIPE COMPOST:769'		MCF:2, RRF:1	NIL	Yes	Yes	No	
5		PARAVOOR MUNICIPALITY	37245	16.65	74	90	32	1	1				KITCHEN BIN:1619, BIOGAS PLANT: 75, PIPE COMPOST: 300		NEW RRF IS PROPOSED	NIL	Yes	Yes	No	

Pathanamthitta																				
Sl.No	District	Localbody	Population as per 2011 Census	Quantity of Waste generated based on population (TPD)	Percentage of D2D Collection(Dry waste)		No of collectors	As reported by localbodies		Waste treatment technology used	Institutional level SWM Plants	Community Level SWM Plants	Household Level SWM Plants (As reported by Local Bodies)	Centralized	Non-Bio Degradable Waste Management	Site identified for Sanitary land fill	Dump sites identified	Authorizati on applied	Authorizati on granted	Annual report (Form IV)
					Household (%)	non-residential premises (%)		Quantity of waste Collected (TPD)	Quantity of waste processed (TPD)											
1	Pathanamthitta	Adoor	29171	12	70	40	20	4	3	Decentralised & Centralised treatment	1.5 TPD of biodegradable waste is managed	Thumboorm oozhy- 21(working)	Pipe compost-1110 Ring compost - 250, Bio digester pot - 536, Bio-bin - 26	Windrow compost plant	MCF-2, MCF cum RRF-1	Nil	Nil	Yes	Under processing	yes
2		Pandalam	41604	13.4	61.92	69	66	0	0	Decentralised treatment	0	New Thumboorm oozhy constructed (4)- not started functioning	Compost bins -4000, Bio diagester Pot 620	Nil	MCF 1, Mini MCF -16 (not started working) 1. Baling machine - 1 no. (working)	Nil	Unauthorized dump site near Pandalam market noticed	Yes	Under processing	No
3		Pathanamthitta	37853	11.98	below 50%	below 50%	37	13	12.7	Decentralised treatment	0.92 TPD of biodegradable waste and 0.35TPD of non biodegradable waste managed	1.Biogas Plant - 2 - not working 2. Thumbhoor muzhi - 21 numbers (working condition)	Biogas plant -400 no.s Compost pits-520 no.s	Nil	MCF-1, MMCF - 7 no.s RRF-Nil 1..Baling machine - 1 no. (working)	Nil	Nil	Yes	Under processing	No
4		Thiruvalla	52883	16.490	80	20	68	15.39	15.39	Baling & Recycling	2	Biogas Plant - 1 with capacity of 350 kg, located in the market (working) 2. Thumboorm uzhi - 14 nos. (not working)	Biogas Plant - 156Nos (provided to houses)	Nil	MCF-1, RRF - 1, Mini MCF - 20	At regional level	Unauthorized dump site near RRF noticed	Yes	Yes	No
5		Anicadu	14585		70		17			Decentralized Treatment	Nil	Thumboorm oozhy -Nil, Biogas Plant-Nil	Biogas plant -Nil Compost Pits-Yes Biobin - Yes, Pipe Compost -Nil	Biogas Plant Nil	MCF-1 MMCF - 7 RRF - Nil, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
6		Aranmula	29994	9.598 TPD	50	60	36	0.912	0.15	Decentralized Treatment	Nil	Thumboorm oozhy-3, Biogas Plant-Nil	Biogas plant -Nil Compost pits-Nil Biobin - Nil, Pipe Compost -Nil	Biogas Plant Nil	MCF-1 MMCF - 18 RRF - 1, Plastic Bale -1, Plastic Shredder-1, Fire extinguisher-8	Nil	Nil	Nil	Nil	Nil
7		Aruvappulam	23800	7.74 TPD	90	52	30		Bio degradable waste Not Collecting	Nil	Decentralized Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - Nil	Windrow compost plant - Nil	MCF-1 MMCF-25 RRF-Nil, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil

8	Ayiroor	21797	43.85 ton	55	70	30	10 ton	3.25 ton	Decentralize d Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - Nil	Biogas plant -Nil Compost pits-100 Biobin - 176, Pipe Compost-Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-2, RRF - Nil, Mini MCF - 16, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
9	Chenneerkara	19438	6.431 TPD	80	72	28	12,000 Kg	10,800 Kg	Decentralize d Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - Nil	Biogas plant -Nil Compost pits-Nil Biobin - 76, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-2, RRF - Nil, Mini MCF - 12, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
10	Cherukole	13346		65		19			Decentralize d Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - Nil	Biogas plant -13 Compost pits-Nil Biobin - Nil, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 13, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
11	Chittar	16525	1778 Kg	770 Kg	1002 Kg	23	9 Kg	12 Kg	Decentralize d Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - Nil	Biogas plant -Nil Compost pits-Nil Biobin - Nil, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 23, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
12	Elanthoor	15344	5.20 TPD	70	10	20	1 TPD	1 TPD	Decentralize d Treatment	Nil	Thumboorm oozhy -1 (Not Working) Biogas Plant - Nil	Biogas plant -Nil Ring Compost -2 Biobin - 54	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 13, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
13	nadimangalar	20568	6.77 TPD	53	10	29	Bio degradable waste Not Collecting	Nil	Decentralize d Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - Nil	Biogas plant -30 Compost pits-Nil Biobin - 500 (Proposed), Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant -30	MCF-1, RRF - Nil, Mini MCF - 10, Plastic Bale -Nil, Plastic Shredder-Nil, Weighing Machine-1	Nil	Nil	Nil	Nil	Nil
14	Erathu	30038	0.9011 TPD	80	50	34	Bio degradable waste Not Collecting	Nil	Decentralize d Treatment	Nil	Thumboorm oozhy -3 Biogas Plant - 1	Biogas plant -Nil Compost pits-12 Biobin - 170 (Proposed), Pipe Compost-Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 17, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
15	Eraviperoor	25017	8.105 TPD	60	70	34	500 Kg	500 Kg	Decentralize d Treatment	Nil	Thumboorm oozhy -2 Biogas Plant - Nil	Biogas plant -Nil Compost pits-Nil Biobin - 510, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 17, Plastic Bale -Nil, Plastic Shredder-1	Nil	Nil	Nil	Nil	Nil
16	Ezhamkulam	28138	9.04 TPD	40	40	31	Bio degradable waste Not Collecting	Nil	Decentralize d Treatment	Ezhamkulam LPS	Thumboorm oozhy -3 (Not Working) Biogas Plant - Nil	Biogas plant -Nil Compost pits-Nil Biobin - Nil, Pipe Compost-Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 23, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
17	Ezhumattoor	18799	300 g	80	75	18	45	45	Decentralize d Treatment	Nil	Thumboorm oozhy -1 Biogas Plant - Nil	Biogas plant -12 Compost pits-36 Biobin - 260, Pipe Compost -Nil	Windrow compost plant -100 Biogas Plant 12	MCF-1, RRF - Nil, Mini MCF - 14, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil

18	Kadampanad	26909	Not Reported	60	30	22	Bio degradable waste Not Collecting	Nil	Decentralized Treatment	Nil	Thumboorm oozhy -2 Biogas Plant - Nil	Biogas plant -10 Compost pits-Nil Biobin - 135, Pipe Compost-Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 17, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil				
19	Kadapra	24691	8.6 ton	74	75	30	0.35	Nil	Decentralized Treatment	2 No.	Thumboorm oozhy -Nil Biogas Plant - 5	Biogas plant -Nil Compost pits-348 Biobin - Nil, Pipe Compost-Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 14, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Yes	Nil	Nil	Nil				
20	Kalanjoor	36835	11.65 TPD	65	20	51	Bio degradable waste Not Collecting	Nil	Decentralized Treatment	Nil	Thumboorm oozhy -2 (Under Construction) Biogas Plant - Nil	Biogas plant -Nil Compost pits-Nil Biobin - Nil, Ring Compost-88, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant-Nil	MCF-1, RRF - Nil, Mini MCF - 20, Plastic Bale -Nil, Plastic Shredder-Nil, Weighing Machine-1	Nil	Yes (Nirathupara)	Nil	Nil	Nil				
21	Kalloppara	18578	6.17 TPD	69	60	28	150 kg	Not Reported	Decentralized Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - Nil	Biogas plant -Nil Compost pits-20 Biobin - 150, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 7, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil				
22	Kaviyoor	16852	5.655 TPD	48	10	14	47%	47%	Decentralized Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - Nil	Biogas plant -Nil Compost pits-Nil Biobin - 159, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 14, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil				
23	Kodumon	27700	Not Reported	70	50	34	Bio degradable waste Not Collecting	Nil	Decentralized Treatment	Nil	Thumboorm oozhy -3 (1 Working; 2 Not Working) Biogas Plant - Nil	Biogas plant -Nil Compost pits-Nil Biobin - Nil, Pipe Compost-Nil	Windrow compost plant - Nil Biogas Plant-Nil	MCF-1, RRF - Nil, Mini MCF - 18, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil				
24	Koipuram	25517	8.25 TPD	60	60	34	56	56	Decentralized Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - Nil	Biogas plant -Nil Compost pits-Nil Biobin - Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 17, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil				
25	Konni	50000	15.6 TPD	51	51	18	0.5	0.2	Decentralized Treatment	Nil	Thumboorm oozhy -1 Biogas Plant - Nil	Biogas plant -Nil Compost pits-Nil Biobin - Nil, Pipe Compost-Nil	Windrow compost plant -Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 18, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil				
26	Kottanad	14396	Not Reported			26			Decentralized Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - Nil, Plastic Bale -Nil, Plastic Shredder-Nil	Biogas plant -Nil Compost pits-Nil Biobin - Yes, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 11	Nil	Nil	Nil	Nil	Nil				
27	Kottangal	17154	5.746 TPD	50-60	60	22	1500 Kg	1500 Kg	Decentralized Treatment	Nil	Thumboorm oozhy -1 Biogas Plant - Nil,	Biogas plant -Nil Biobin - Nil, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1 (Under Progress), RRF - Nil, Mini MCF - 25, Plastic Bale -1, Plastic Shredder-1 (Under Progress)	Nil	Nil	Nil	Nil	Nil				

28	Kozhencherry	12021	4.2. TPD	60	70	26	4 TPD	0.3 TPD	Decentralize d Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - 1 (stadium)	Biogas plant -Nil Compost pits-Nil Biobin - 218, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - 1, Mini MCF - 12, Plastic Bale -1, Plastic Shredder-1	Nil	Nil	Nil	Nil	Nil
29	Kulanada	23545	5,000 Kg	70	80	28	Nil	Nil	Decentralize d Treatment	Nil	Thumboorm oozhy -1 Biogas Plant - Nil	Biogas plant -15 Compost pits-150, Biobin - 75, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant 15	MCF-1, RRF - Nil, Mini MCF - 16, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Yes
30	Cunnamthanan	20573	6.671 TPD	70	Not Reported	25	7916+ 2 load MLP	7916+ 2 load MLP	Decentralize d Treatment	Nil	Thumboorm oozhy -2 Biogas Plant - Nil	Biogas plant -9 Compost pits-815 Biobin - Nil, Pipe Compost-Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 24,Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
31	Kuttoor	19652	6.495 TPD	45	7	24	52%	52%	Decentralize d Treatment	9 No.	Thumboorm oozhy -Nil Biogas Plant - Nil	Biogas plant -Nil Compost pits-Nil Biobin - 69, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 13, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
32	Malayalappuzha	17033	5.6099 TPD	58	58	25	0.05	0.02	Decentralize d Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - Nil	Biogas plant Nil, Compost pits-370, Biobin - Nil, Pipe Compost-Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 14, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
33	Mallapally	17712	5.913 TPD	58	56	15	3 ton	2.5 ton	Decentralize d Treatment	Nil	Thumboorm oozhy -2 Biogas Plant - 1 (Not Working)	Biogas plant -Nil Compost pits-20 Biobin - 52, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 7, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
34	allappuzhass	11784		65		12			Decentralize d Treatment	Nil	Thumboorm oozhy -1 Biogas Plant - Nil	Biogas plant -2 Compost pits-112 Biobin - 37, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant 2	MCF-1, RRF - Nil, Mini MCF - 7, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
35	Mezhuveli	14000		80		26			Decentralize d Treatment	Nil	Thumboorm oozhy -1 Biogas Plant - Nil, Plastic Bale -Nil, Plastic Shredder-Nil	Biogas plant -Nil Compost pits-Nil Biobin - Nil, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 26	Nil	Nil	Nil	Nil	Nil
36	Mylapra	10258		50		25			Decentralize d Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - Nil	Biogas plant -Nil Compost pits-Nil Biobin - Nil, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 13, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
37	aranammoozh	18570	6.171 TPD	70	60	25	0.01 TPD	0.01 TPD	Decentralize d Treatment	Nil	Thumboorm oozhy -1 Biogas Plant - Nil	Biogas plant -Nil Compost pits-Nil Biobin - Nil, Pipe Compost-Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 23, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
38	Naranganam	17749	5.93 TPD	50	100	18	0.023	0.013	Decentralize d Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - Nil	Biogas plant -Nil Compost pits-Nil Biobin - 162, Pipe Compost-Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 14, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil

39	Nedumpuram	12694				26			Decentralized Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - Nil	Biogas plant -Yes Compost pits-Yes, Biobin - Yes, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant Yes	MCF-1, RRF - Nil, Mini MCF - 15, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
40	Niranam	13445		50		26			Decentralized Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - Nil	Biogas plant -Nil Compost pits-Nil Biobin - Nil, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 13, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
41	Omaloor	17611	642 Kg	65	100	28	400 Kg	400 Kg	Decentralized Treatment	Nil	Thumboorm oozhy -1 Biogas Plant - 1	Biogas plant -Nil Compost pits-Nil Biobin - Nil, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 11, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
42	Pallickal	52760	2.182TPD	80		46	Bio degradable waste Not Collecting	Nil	Decentralized Treatment	Lifeline Adoor-Biogas Plant	Thumboorm oozhy -Nil Biogas Plant - Nil	Biogas plant -29 Compost pits-Nil Biobin - 299, Pipe Compost-Nil	Windrow compost plant - Nil Biogas Plant 29	MCF-1, RRF - Nil, Mini MCF - 14, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
43	dalamThekkel	24069	1.322 TPD	70	70	28	Bio degradable waste Not Collecting	Nil	Decentralized Treatment	Nil	Thumboorm oozhy -2 (Not Working) Biogas Plant - Nil	Biogas plant -Nil Compost pits-Nil Biobin - Nil, Pipe Compost-Nil, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 14, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
44	Peringara								Decentralized Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - Nil	Biogas plant -13 Compost pits-Nil Biobin - Nil, Pipe Compost -Nil	Windrow compost plant - nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 47, Plastic Bale - Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
45	Pramadom	31251	Not Reported	66	56	31	8050 Kg	6010 Kg	Decentralized Treatment	Yes (1 No.)	Thumboorm oozhy -1 Biogas Plant - Nil	Biogas plant -Nil Compost pits-Nil Biobin - Nil, Pipe Compost-Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 29, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
46	Puramattam	14069		80		23			Decentralized Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - Nil	Biogas plant -Nil Compost pits-46 Biobin - Nil, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 13, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil
47	Ranni	13445	4.6335	80	80	23	0.065	0.04	Decentralized Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - Nil, Plastic Bale -Nil, Plastic Shredder-Nil	Biogas plant -Nil Compost pits-Nil Biobin - 750, Pipe Compost - Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 13	Nil	Nil	Nil	Nil	Nil
48	Ranni-Angadi	15873	5.362	70	70	26	0.02	0.02	Decentralized Treatment	Nil	Thumboorm oozhy -1 Biogas Plant - Nil	Biogas plant -Nil Compost pits-Nil Biobin - Nil, Pipe Compost - Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 13, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil

49	mini-Pazhavang	24468	7.94	40	100	32	Not Reported	Not Reported	Decentralized Treatment	Nil	Thumboorm oozhy -2 Biogas Plant - 2	Biogas plant -Nil Compost pits-Nil Biobin - Nil, Geobin-70, Pipe Compost- Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 17, Plastic Bale -1, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil				
50	Ranni-Perunad	25143	8.143 TPD	45	20	28	0.005	0.005	Decentralized Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - Nil	Biogas plant -Nil Compost pits-Nil Biobin - Nil, Pipe Compost- Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 15, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil				
51	Seethathodu	22086	7.225 TPD	65	Not Reported	24			Decentralized Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - 1	Biogas plant -Nil Compost pits-Nil Biobin - Nil, Pipe Compost- Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 13, Plastic Bale - Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil				
52	Thannithode	12508		60		26			Decentralized Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - Nil,	Biogas plant -Nil Compost pits-Nil Biobin - Nil, Pipe Compost- Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 15, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil				
53	hottapuzhass	15618	5.285 TPD	30	Not Reported	22	1350 Kg	Not Reported	Decentralized Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - Nil	Biogas plant -4 Compost pits-182 Biobin - 1215, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 13, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil				
54	Thumpamon	7566	2.869 TPD	100	100	21	Bio degradable waste Not Collecting	Nil	Decentralized Treatment	Nil	Thumboorm oozhy -2 Biogas Plant - Nil	Biogas plant -Nil Compost pits-Nil Biobin - 191, Ring Compost - 201, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 13, Plastic Bale - Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil				
55	Vadasserikkara	21755		70		27			Decentralized Treatment	Nil	Thumboorm oozhy -Nil Biogas Plant - 1,	Biogas plant -Nil Compost pits-Nil Biobin - 300	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 15, Plastic Bale -Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil				
56	Vallicode	20287	6.686	70	55	30	Bio degradable waste Not Collecting	Nil	Decentralized Treatment	Nil	Thumboorm oozhy -1 Biogas Plant - Nil,	Biogas plant -Nil Compost pits-Nil Biobin - Nil, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant Nil	MCF-1, RRF - Nil, Mini MCF - 15, Plastic Bale - Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil				
57	Pathanamthitta Vechoochira	21237	310.13 TPD	70		30			Decentralized Treatment	Nil	Thumboorm oozhy -1 Biogas Plant - Nil	Biogas plant -Nil Compost pits-Nil Biobin - Nil, Pipe Compost -Nil	Windrow compost plant - Nil Biogas Plant - Nil	MCF-2, RRF - Nil, Mini MCF - 1, Plastic Bale - Nil, Plastic Shredder-Nil	Nil	Nil	Nil	Nil	Nil				

Alappuzha

Sl.No	District	Localbody	Population as per 2011 Census	Projected population(2022)	Quantity of Waste generated based on population (TPD)	Percentage of D2D Collection(Dry waste)		No of collectors	As reported by localbodies		Quantity of waste processed (TPD)	Waste treatment technology used	Institutional level SWM Plants	Community Level SWM Plants	Household Level SWM Plants	Centralized	Non-Bio Degradable Waste Management	Site identified for Sanitary land fill	Dump sites identified	Authorizati on applied	Authorizati on granted	Annual report (Form IV)
						Household (%)	non-residential premises (%)		Quantity of waste Collected (TPD)	Quantity of waste processed (TPD)												

1	ALAPPUZH A	Alappuzha	174176	180856	51.415	94	40	93	38	38	38	Aerobic Bin,shredding machine,Baling machine	AEROBIC BIN	Aerobic Bin	BIOBIN,PIPE COMPOST,BIO GAS PLANT	No	MCF , RRF	NIL	1	YES	YES (Valid upto: 26.04.2024)	No
2		Chengannur	23456	24567	10.525	82	90	27	0.75	0.65	0.65	Aerobic Bin	NA	Thumboorm uzhi model aerobic composting unit	BIOBIN - 4361, BIOGAS PLANT - 130	No	MCF - RRF	NA	Nil	YES	YES (Valid upto: 31.05.2024)	No
3		Cherthala	45827	47069	17.585	100	100	38 HKS	1.6	1.6			1 THUMBOORM UZHI UNIT - 0.15 TPD	13 THUMBOORM UZHI UNITS - 0.5 TPD	BIOBINS - 1216 No.s, BIOGAS PLANTS - 153 No.s	No	1 RRF-1 Ton, 1 MCF-1 Ton	Nil	Nil	YES	YES (Valid upto: 10.07.2024)	2021-2022 submitted
4		Haripad	15411	30977	11.725	95	98	27	0.23	0.23	0.23	Aerobic Bin,shredding machine,Baling machine	Aerobic Bin projects are ongoing in schools and Hospital	Aerobic Compost Bin	Biobin - 3285, Biogas Plant - 72	No	RRF,MCF,MINI MCF,SHREDDING MACHINE, BALING MACHINE	NIL	NIL	YES	YES(Valid upto: 04.06.2024)	No
5		Kayamkulam	68634	72383	11.845	65	42	37	3	2.5	2.5	Aerobic bin composting	Aerobic bin	Aerobic Bin	Biobin-761, Biogas-364, Pipe Compost-1992	under construction	MCF,RRF, HKS	Nil	1	yes	Yes (Valid upto: 22.03.2024)	No
6		Mavellikara	26421	27556	11.385	80	81	24	2.47	2.01			AEROBIC COMPOSTING	1	Aerobic bins (Thumboorm uzhi) - 6 units (12 bins)	575	No	MCF RRF	NA	1	YES	YES (Valid upto: 27.11.2025)
				114.18 TPD																		

Kottayam

Sl. No	District	Localbody	Population as per 2011 Census	Quantity of Waste generated based on population (TPD)	Percentage of D2D Collection(Dry waste)		No of collectors	As reported by localbodies		Waste treatment technology used	Institutional level SWM Plants	Community Level SWM Plants	Household Level SWM Plants	Centralized	Non-Bio Degradable Waste Management	Site identified for Sanitary land fill	Dump sites identified- Nil Existing	Authorizati on applied	Authorizati on granted	Annual report (Form IV)
					Household (%)	non-residential premises (%)		Quantity of waste Collected (TPD)	Quantity of waste processed (TPD)											
1	Kottayam	Erattupetta	34000	13.32	60	40	38	10.7	1.2	Decentralised & Centralised treatment	NA	Thumboorm oozy- 24(working) - 16	Pipe compost-1110 Ring compost - 250, Bio digester pot - 536, Bio-bin - 26	Nil	MCF, RRF	Nil	Thevarupara	Yes	Under process	Submitted
2		Chanagacherry	47685	17.42	60	40	37	15.1	0.73	Decentralised & Centralised treatment	NA	Thumboorm oozy- 32(working)	Pipe compost-1020 Ring compost - 250, Bio digester pot - 536, Bio-bin - 26	Nil	MCF- 2, RRF- 1	Nil	Fathimapuram	Yes	Under process	Submitted
3		Kottayam	144128	46.36	60	40	79	48.5	18.865	Decentralised & Centralised treatment	NA	Thumboorm oozy- 105(working)	Pipe compost-850 Ring compost - 150, Bio digester pot - 536, Bio-bin - 26	Nil	MCF, RRF	Nil	Vadavathoor	Yes	Under process	Submitted
4		Pala	22056	9.74	60	40	16	7	-	Decentralised & Centralised treatment	NA	Nil	Pipe compost-600 Bio-bin - 26	Nil	MCF	Nil	-	Yes	Under process	Submitted
5		Ettumanoor	53983	19.31	60	40	42	16.19	-	Decentralised & Centralised treatment	NA	Nil	Pipe compost-900 Ring compost - 100, 536, Bio-bin - 26	Nil	MCF-10, Mini MCF- 26	Nil	-	Yes	Under process	Submitted

6	Kottayam	Vaikom	24520	10.51	60	40	38	7.356	-	Decentralised & Centralised treatment	NA	Nil	Pipe compost-960 Ring compost - 120, Bio-bin - 10	Nil	MCF-1, RRF- 1	Nil	-	Yes	Under process	Submitted	
			116.66 TPD																		

Idukki

Sl.No	District	Localbody	Population as per 2011 Census	Projected population(2019)	Quantity of Waste generated based on population (TPD)	Percentage of D2D Collection(Dry waste)		No of collectors	As reported by localbodies		Quantity of waste processed (TPD)	Waste treatment technology used	Institutional level SWM Plants	Community Level SWM Plants	Household Level SWM Plants	Centralized	Non-Bio Degradable Waste Management	Site identified for Sanitary land fill	Dump sites identified	Authorizati on applied	Authorizati on granted	Annual report (Form IV)
						Household (%)	non-residential premises (%)		Quantity of waste Collected (TPD)	Quantity of waste processed (TPD)												
1		Kattapana	42646	44350	27	40	59	78	4.226	4.226	14	Decentralised treatment	Not given	Not given	Biogas plants-282 Compost pit-444 Vermi compost - 635 Ring compost - 755 G -Bin waste collector - 179 Thumbur muzhi model aerobic composting bin - 6 unit containing 13 bins	Nil	MCF- 1 Nos RRF- 1 No	At regional level	one at Puliya	Yes	No	No
2	Idukki	Thodupuzha	52045	57400	32	65	60	80	6.042	6.042	23	Decentralised treatment	Not given	Nil	Biogas Plant - 928	Nil	MCF- 2 Nos Resource Recovery Facility (300s ft)- 1 No Mini MCF - 21	At regional level	one at Parakkadavu	Yes	No	No
			59.76 TPD																			

Ernakulam - DO 1

Sl.No	District	Localbody	Population as per 2011 Census	Projected population(2019)	Quantity of Waste generated based on population (TPD)	Percentage of D2D Collection(Dry waste)		No of collectors	As reported by localbodies		Quantity of waste processed (TPD)	Waste treatment technology used	Institutional level SWM Plants	Community Level SWM Plants	Household Level SWM Plants	Centralized	Non-Bio Degradable Waste Management	Site identified for Sanitary land fill	Dump sites identified	Authorizati on applied	Authorizati on granted	Annual report (Form IV)
						Household (%)	non-residential premises (%)		Quantity of waste Collected (TPD)	Quantity of waste processed (TPD)												
1	Ernakulam	Kochi City	677000	703999	355.75	90	60	1200	308	215	304	Centralized treatment - Windrow composting at Brahmapuram	Not reported	Nil	Biogas plant-60 Compost pits-1212	Biodegradable waste in dumping yard at Brahmapuram . Windrow composting. Retendering of waste to energy plant at Brahmapuram	MCF- 8, RRF-5	Regional landfill site identified at Kochi	1(Retendering of biomining of dumpsite at Brahmapuram)	Yes	Under processing	Yes
2	Ernakulam	Angamaly	35907	37342	14.75	90	72	25	2.5	2	3	1. Brahmapuram 2. MCF 3. OWC 4. Private chicken rendering unit	not given	OWC at market	Biopots - 4000 Nos Bio plant - 265 Nos Bio bins- 354 Nos	Bio degardable waste Disposing at Brahmapuram	MCF-; 1	At regional level	Nil	No	No	Yes

3	Ernakulam	Aluva	22428	23324	12.25	24	10.8	37	7.3 Bio- 7 Non bio-0.3	7.3	7	1. Centralised treatment-windrow composting at Brahmapuram 2. Non bio waste segregated at MCF	Biogas plant- 10 Nos	Centralised plant at Brahmapuram	Bio compost bin- 3458 Nos	Bio degradable waste Disposing at Brahmapuram	MCF- 2	At regional level	Nil	No	No	No
4	Ernakulam	Kalamassery	77854	80965	28	77	80	54	20 TPD Bio waste- 10-15 TPD Non Bio waste- 4.5-5 TPD	Not given	20	Centralised treatment	Not given	Centralised plant at Brahmapuram	Biobins- 1980 Nos	Bio degradable waste Disposing at Brahmapuram	MCF-1; MRF-1	At regional level	1	yes	No	Yes
5	Ernakulam	Thrikkakkara	77319	80409	36	73	60	78	20 tpd(Bio waste) 14-15tons/w eek(Plastic)	not given	10	Centralized treatment	Not given	Not given	Biogas - 426 Nos Biobin- 1926Nos Ring compost- 487 Nos	Centralised plant at Brahmapuram	MCF-1	At regional level	Nil	No	No	Yes
6	Ernakulam	Thripunithura	95652	99474	43	85	91	98	4 tpd (Bio waste)	Not given	14	Decentralised treatment	Aerobic composting (Thumboormuzhi model) - 2 bins at 2 locations with capacity 14 unit & 8 unit	1,62TPD of biodegradable waste is managed 0,124 non biodegradable waste is managed. Thumbur muzhi model at Anapparamb -41 ward	Biogas Plant - 1941 Nos Biodegester Pot - 508 Nos Bucket Compost - 5100 Nos Pipe Compost - 9410 Nos Biobin-2500 Nos Compost bin- 8084 Nos	Bio-degradable Centralised plant at Brahmapuram	Material Collection Facility - 1 No (Non Operation) Plastic Shredding Machine - 1 No (Non Operation) Baling Machine - 1 No (Non Operation)	At regional level	Nil	No	No	No
7	Ernakulam	Maradu	51060	53100	15	50	36	58	0	0	6	Centralised treatment	Aerobic composting (Thumboormuzhi model)- 2 bins (not operating)	Not given	Biogas Plant - 716 Nos Biodegester Pot - 215 Nos Bucket Compost - 2330 Nos Pipe Compost - 940 Nos Biobin-1650 Nos	nil	1.MCF-3(1 functional) 2.RRF-1 3.Mini MCF-1 per ward(3 per ward)	At regional level	Nil	No	No	Yes
504.75 TPD																						

Ernakulam - DO 2 Perumbavoor

Sl.No	District	Localbody	Population as per 2011 Census	Quantity of Waste generated based on population (TPD)	Percentage of D2D Collection(Dry waste)		No of collectors	As reported by localbodies		Waste treatment technology used	Institutional level SWM Plants	Community Level SWM Plants	Household Level SWM Plants (As reported by Local Bodies)	Centralized	Non-Bio Degradable Waste Management	Site identified for Sanitary land fill	Dump sites identified	Authorization applied	Authorization granted	Annual report (Form IV)
					Household (%)	non-residential premises (%)		Quantity of waste Collected (TPD)	Quantity of waste processed (TPD)											
1		Kothamangalam Municipality	38837	16			40	3	3		13 biogas plants for school,		2700 bio composter, 299 biogas plant	Windrow compost plant	2 TPD, MCF, RRF, shredder, recyclable : hnadced over to ASM Industries, Non recyclables Eco Green		yes	nil	nil	nil

2	Moovattupuzha Municipality	30397	15			36 (Pvt agency-Chris Global)	6	6				Biogas plat: 405, ring compost: 376, Bio composter: 389, Digester pot: 810, Pipe compost: 1175	Windrow compost plant	2TPD (by Chris global), MCF (under construction), RRF, Bailing machine Proposed for Shredding machine and addnl bailing machine	no	Yes	nil		
3	Piravam	27229	16.75	69	53	54						Biogas plant: 0.25 TPD		Compost pit: 4500, Biogas plant: 156, Pipe compost: 874, Bucket compost: 134	1TPD, MCF, RRF (CKCL)				
4	Perumbavoor	28110	8									Biogas plant (pvt busstand): 0.3TPD, Market: 0.5TPD, Aerobic compost:0.5 TPD		MCF, bailing machine(CKCL)					
5	Ernakulam DO 2	Koothattukulam	14000	4.2								Biogas plant/compost: 1167		1 TPD, Site identified for 1 MCF and RRF					
			59.95 TPD																

ESC, Eloor

Sl.No	District	Localbody	Population as per 2011 Census	Quantity of Waste generated based on population (TPD)	Percentage of D2D Collection(Dry waste)		No of collectors	As reported by localbodies			Waste treatment technology used	Institutional level SWM Plants	Community Level SWM Plants	Household Level SWM Plants	Centralized
					Household (%)	non-residential premises (%)		Quantity of waste Collected (TPD)	Quantity of waste processed (TPD)	Quantity of waste processed (TPD)					
1	Ernakulam	Eloor Municipality	7901	17.5 TPD	85	100	24	3.25 TPD	3.25TPD	3.25 TPD	Bio Waste treated in Thumboormuzhy Plants, & Non- bio waste handed over to CKCL	6	6	2350 (Bio-Composter Bin, Bio-gas Plant)	0
2	Ernakulam	Kadungalloor	45921				1 mcf for plastic			0	Non bio to C	0	0	48 RING COMPOST, 748 BIOBIN, NADEP COMPOST, 80 NOS	0
3	Ernakulam	Vadakkekkara	32745		60	40	1mcf & 19 mini mcf for plastic			0	Non bio to R	0	0	1345 -BIO-B	0
4	Ernakulam	Ezhikkara	18019	7.44	99.03	31.52	28	0.0571	0	0	non bio waste	0	0	compost pit	0
5	Ernakulam	Chendamangalam	29326				13 mini mcf & 1mcf								
6	Ernakulam	Chittattukara	31303				36								
7	Ernakulam	north paravur	33243	12.75 ton	90	95	1 mcf for plastic	5 TPD	5 TPD	5 TPD	Non- bio waste handed over to CKCL . and bio waste treated in vermin compost and windrow compost	0	0	bio gas plant -60, BIO-BIN - 910, pipe comp - 1800	

8	Ernakulam	Kunnukara G	21765		85	72	2 mcf				Non bio to Ecogreen	0	0	0
9	Ernakulam	Karumalloor	29805				1MCF & 18 MINI MCF	5TPD	4.4TPD	4.4TPD	Hand over to CKCL			

40.69TPD

Thrissur

Sl.No	District	Localbody	Population as per 2011 Census	Projected population(2019)	Quantity of Waste generated based on population (TPD)	Percentage of D2D Collection(Dry waste)		No of collectors	As reported by localbodies		Quantity of waste processed (TPD)	Waste treatment technology used	Institutional level SWM Plants	Community Level SWM Plants	Household Level SWM Plants	Centralized	Non-Bio Degradable Waste Management	Site identified for Sanitary land fill	Dump sites identified	Authorizati on applied	Authorizati on granted	Annual report (Form IV)
						Household (%)	non-residential premises (%)		Quantity of waste Collected (TPD)	Quantity of waste processed (TPD)												
1	Thrissur	Thrissur City	317526	330189	127	62	90	194	103	103	119	Centralised and Decentralised facility	Total quantity of biodegradable managed- 9TPD Non biodegradable 0.7TPD	Organic Waste Converter-3(16ton) Biogas plant-6(2ton) Portable aerobic bin-24(1.2ton) Mobotrash-1(500kg)	Biogas plant-1160, Bio Digester pot-35, Smart bio bin -400, Bio composter bin -856, Portable Bio Bin-423 Compost pit-20118	Thrissur Corporation identified land at Ollookkara village in Thrissur district. Vide GO (Rt) No 111/2020/LS GD dated 13/01/2020 State Government has accorded sanction to Thrissur Municipal Corporation to purchase the identified land at Ollookkara Village in Thrissur district and to hand over the same on lease basis to KSIDC for the development of the project.The matter is being placed before the Council for approval and further proceedings.	Material collection facility-13 Resource recovery facility-3	Regional landfill site identified at Kochi	1 (Laloor)	Yes	needed to be renewed	Yes
2		Chalakkudy	49525	51504	24	100	60.5	51	2	2	2	Decentralised and centralised treatment	Thumbboomuzhi - 2, Biogas -2,	Biogas - 753 biocomposter bins - 671, Biodigester pot - 148, ring compost - 379, vermi compost - 38, Bucket compost - 919	Windrow of 2.1 tpd and vermi compost plant	MCF -2, RRF -1	Nil	1 (quantification completed and tender published and award of work not done)	Not submitted to the Board	Validity of the authorisation issued expired on 7/2022	YES	
3		Chavakkad	39098	40660	20	100	100	34	4	4	15	Decentralised treatment	1 SWM-Thumbomuzhi	Biogas Plant -814 Nos Pot Compost - 4403 Nos Biodigester500	Windrow Compost (2TPD),	MCF-1; RRF-1	At regional level	1	No	No	Yes	

4		Guruvayur	70012	72810	32	32	96	58	4	4	15	Decentralised and centralised treatment	Biogas Plant(3.5tpd)	Bio organic management	Biogas Plant-500 Composting units-9574 Compost pits-1899 Kitchen Gardening	Windrow Compost (5TPD),	MCF-2; mini mcf1 RRF-1	At regional level	Nil	No	No	Yes
5		Irinjalakuda	62532	65031	24	98	100	HKS 74, Kudumbashree 12	Bio - 4.5, Non-bio-4	8.5	9	Windrow compost, Thumboomuzhi and biogas plant		SWM-2 (600kg)	Biogas Plant - 700 Nos, Ring Compost-4360 Kitchen bin-902, Biobin-210 (6172 X 1.5 kg./day=9.25 tpd)	1 windrow compost plant and 1 Thumboomuzhi unit	MCF-3 RRF-1, Mini MCF-4	0	0	Applied for renewal (PCB/RO/E KM/GEN-26 2/19 dt. 28/12/2021)	Application under at the Board's office	yes
6		Kodungallur	94883	98675	25	90	95	84	10	10	10	Centralised and Decentralised facility	Aerobic Compost (Thumboomuzhi Model) - 82 bins at 11 locations with capacity of 25-50 kg/day	Aerobic composting	Biogas Plant - 1252 Nos, Pipe Compost - 4765 Nos, Compost pits-4840 Composting units-8064	Windrow Compost -1No-with capacity of 4TPD	Non bio degradable waste segregated at source level and collected and handed over to Clean Kerala Company and other private agencies for recycling	nLL	Nil	yes	validity of the authoisation has expired, application for renewal is not received at Board's office	yes
7		Kunnamkulam	54071	56232	22	92	61	72	5.5	5.5	6	Decentralised and centralised treatment	Aerobic compost (Thumboomuzhi Model) -at 2 schools	Nil	Biobin -12006 nos., biogas - 108, compost pits - 1200	Windrow composting plant capacity 8 tpd, windrow composting plant - 4tpd managed, 3.9 acres of land is available with the local body for waste processing	MCF-2; RRF-2	0	1	Yes	No	Yes
8	Thrissur	Vadakkanchery	61341	63792	21	100	100	68	2	2	2	Centralized		0	Biobin- 2096 Biogas plant - 67 Compost pit - 251	MCF-2 RRF - 1 Windrow compost plant-1 biogas plant - 1	MCF-2; RRF-1	NA	1	Yes	No	Yes

294.75 TPD

Palakkad

Sl.No	District	Localbody	Population as per 2011 Census	Projected population(2019)	Quantity of Waste generated based on population (TPD)	Percentage of D2D Collection(Dry waste)		No of collectors	As reported by localbodies			Waste treatment technology used	Institutional level SWM Plants	Community Level SWM Plants	Household Level SWM Plants	Centralized	Non-Bio Degradable Waste Management	Site identified for Sanitary land fill	Dump sites identified	Authorizati on applied	Authorizati on granted	Annual report (Form IV)	Remarks
						Household (%)	non-residential premises (%)		Quantity of waste Collected (TPD)	Quantity of waste processed (TPD)	Quantity of waste processed (TPD)												

1	Palakkad Municipality	131019	39.31	70.02 %	93 %	Cleaning and sanitation - 161 Harithakarmasena - 156	6.6 TPD	6.6 TPD	6.6 TPD	composting	No data available	thumboor moozhi : 1 no	Biobin - 500 ;	Windrow compost	MCF - 1	Nil	One. Legacy waste Dumpsite of 76192 m3 identified	Yes	Yes	2021-22 Submitted	Inspection was conducted serving Notice of inspection under Water Act. But no water bodies like wells etc are there within 50 meters of Dumpsite. Fresh unsegregated solid waste seen in small quantity in the legacy waste dumpsite. Water tanks and hose for firefighting available. Daily wetting of the waste seen practised. Heaps of waste are seen seperated sufficiently to avoid quick spread of fire.
2	Pattambi Municipality	28632	4.5	100 %	75 %	53	4.67 TPD	4.67 TPD	4.67 TPD	composting	No data available	Nil	No data available	Windrow compost	MCF - 1	Nil	Nil	Yes	Yes	2021-22 Submitted	

3		Ottapalam Municipality	53755	16.13	83.16 %	92.55 %	52	1.007 TPD	1.007 TPD	1.007 TPD	No centralised treatment	No data available	Thumboor mozhi 2 nos (not efficiently working)	No data available	No centralised treatment	MCF - 1, RRF -1	Nil	1	Yes	No	2021-22 Submitted	Inspection was conducted on 24.03.2023 serving Notice of inspection under Water Act. There is a natural stream flowing adjacent to the dumpsite. No direct leachate intrusion observed. Legal sample of water from the stream collected and handed over to Board Analyst at Central Lab. Second phase of clearing the legacy waste found ongoing. Small quantity of fresh solid waste seen put over the legacy waste. Water storage tank of approximate 2000 litre and hoses arranged for firefighting.
4		Mannarkkad Municipality	34839	6.45	75.07 %	21 %	52	1.5 TPD	1.5 TPD	1.5 TPD	No centralised treatment	No data available	Nil	No data available	No centralised treatment	MCF - 1, RRF -1, Mini MCF - 12	Nil	Nil	No	No	2021-22 Submitted	
5		Cheruuplassery Municipality	45730	18.2	83.16 %	92.55 %	52	1.02 TPD	1.02 TPD	1.02 TPD	No centralised treatment	No data available	thumboor moozhi : 2 nos	No data available	No centralised treatment	MCF - 1, RRF -1	Nil	Nil	Yes	Yes	2021-22 Submitted	
6		Shornur Municipality	43528	20	97	100		1.5 TPD	1.5 TPD	1.5 TPD	composting	No data available	thumboor moozhi : 2 nos	ring compost , pipe compost, biogas plant, bucket compost: 1625	Windrow composting- 22 Nos Credal bin	1.9 tpd , MCF	Nil	Nil	Yes	No	2021-22 Submitted	
7	PALAKKAD	Chittur Municipality	33825	8.85	76.57 %	61.26 %		1.32 TPD	1.32 TPD	1.32 TPD	composting	No data available	thumboor moozhi : 1 no	bucket compost - 1200 bucket ; ring compost - 250 ; bio gas umit - 43;	Windrow composting - 1 No of capacity 5 Ton	MCF -7, RRF -1	Nil	Nil	Yes	Yes	2021-22 Submitted	
				113.44 TPD																		
Malappuram																						
				Quantity of Waste	Percentage of D2D Collection(Dry waste)			As reported by localbodies							Non-Bio							

Sl.No	District	Localbody	Population as per 2011 Census	Projected population(2019)	generated based on population (TPD)	Household (%)	non-residential premises (%)	No of collectors	Quantity of waste Collected (TPD)	Quantity of waste processed (TPD)	Quantity of waste processed (TPD)	Waste treatment technology used	Institutional level SWM Plants	Community Level SWM Plants	Household Level SWM Plants	Centralized	Degradable Waste Management	Site identified for Sanitary land fill	Dump sites identified	Authorizati on applied	Authorizati on granted	Annual report (Form IV)
1		VALANCHERY	45306	-	17.857	52%	20%	22	4.1	4.1	4.1	Decentralise d Facility	but there are several Private STP plants in the municipality for the waste water treatment	NIL	bins(1000No.s-new), Disposable Toilets(4No.s-n ew),Ring compost(3000 No.s-new)	An FSTP (2000KLD) and Biological Park is Proposed at Kanajipura.	inspection around 7 Ton usable plastics and 7 Ton rejects are stored in the MCF.	NIL	kanijipura (This site is proposed for the new biological park and FSTP)	YES	Under processing	submitted
2		PONNANI	90442	-	33.65	50%	55%	53	9.9	9.9+0.6(WET)	9.9+0.6(WET)	Decentralise d Facility	but there is a 140 MLD Sewage treatment plant propesd in the Women and Childern Hospital,Ponna ni.	NIL	00no.s), PIPE COMPOST 364 no.s, Bucket compost 235 No.s, Bio POT 683 no.s, BIO BIN-951 no.s, Ring COMPOST 5000no.s.	the harbour. And second proposal 3.5 MLD FSTP plant submitted for the government sanction.	Ton wastes are being stored in the MCF, which is above than the proposed capacity of MCF.	NIL	NIL	YES	Under processing	Submitted
3		TANUR	69534	-	22.86	52%	20%	46	8.3	12.51	12.51	Decentralise d Facility	NIL	Thumburmo zhi 11No.s	Ring composts 5700, Compost pit 2200no.s, pipe compost 2200no.s, bio gas plants 100no.s.	NIL	working, 10 mini MCF and future proposal submitted for government sanction of 34 mini MCF.	NIL	NIL	YES	Under processing	submitted
4		NILAMBUR	48950	-	16.69	85%	80%	30	1.6	1.6	14.69	Decentralise d Facility	thumbur muzhi	biogas plant-market	biobin-6972 completed-3102 work order issued- 1200	NIL	MCF/RRF-1 BOTTLE BOOTH -20	NIL	NIL	YES	under processing	submitted
5		TIRURANGA DI	56632	-	20	80%	20%	21	0.75	0.75	0.75	Decentralise d Facility	proposed 12 aerobic thumbumozhi plant and 1RRF in 2023 aannual plan	NIL	KITCHEN BIN -1000 RING COMPOSIT-354 PROPOSED-3997 RING COMPOST IN 2023 ANNUAL PLAN	NIL	Major MCF-2 Mini MCF-1	NIL	NIL	YES	under processing	NIL
6		KONDOTTY	59147	-	20	70%	30%	45	1	1	1	Decentralise d Facility	There is an STP Plant operational under the authority of municipality in kondotty fish market having a capacity 15 KLD	NIL	Compst-123 Biogas plant-79 Bucket compost-478. Proposed biogas plant-111 Ring compost-581 in 2023 annual plan.	NIL	movable MCF in 40 wards ,184 waste bin in municipality institution ,80 collectors at school and 32 bottle booth	NIL	NIL	NO	Application for authorization submitted but fee not remitted	NIL
7		PARAPPANA NGADI	83685	-	27	60	40	56	2.5	2.5	2.5	Decentralise d Facility	NIL	NIL	others-4623 unit Proposed ring compost-1000 ,compost pit-2605 via Ayyankali thozhilurappu padhathi in house for the year 2022-23.	NIL	barrow for Harithakarm a sena ,Municipality has distributed 2 bins for collecting bio-non bio degradable waste.	NIL	NIL	YES	Under processing	Submitted

8	PERINTHALM ANNA	49723	-	17	85	10	65	4.5	4.5	15	Centralised Facility	Bio bin	NIL	Bio bin-1400	YES	MCF-1, MRF-1,Bottle booth-8	NIL	NIL	YES	Granted	NIL				
9	MALAPPURAM	68088	-	23.75	65	60	40	0.4	0.2	18	Decentralised Facility	NIL	Proposed mini MCF-40	Bio bin-918 Bucket compost-1517 Bio gas plant-175 , Pit compost-177	NIL	MCF-3 , Ring compost-600 O RRF-1	NIL	1 Pulliyattummal	YES	Under processing	NIL				
10	MANJERI	97102	-	31	65	70	42	5	5	25	Decentralised Facility	NIL	biogas plant-market	Biobin-12000	NIL	MCF-4 , Bottle booth-1	NIL	YES 45000MT	YES	Under processing	NIL				
11	TIRUR	56068	-	16	80	20	32	4.25	4.25	13.75	2 TPD wet waste in centralised facility and 11.75 TPD in decentralised facility	NIL	NIL	Bio bin-4559, Vermi compost-6,Kitchen bin -290, Ring compost -93, Bio gas plant-24.	45 numbers of thumburmozhimodel bio bin of 2tpd capacity each	2TPD dry waste bailed and transported to authorized recyclers.1 RRF at Pottilathara	NIL	Dump site is fully cleaned.	YES	Granted	Submitted				
12	MALAPPURAM	KOTAKKAL	57430	-	14.2	70	30	18	5.8	5.8	8.4	Decentralised Facility	NIL	NIL	Bio gas plant-221,Bio bins-4000, Ring compost-1352, Pipe compost-75	NIL	1MCF and RRF and 32 mini MCF	NIL	NIL	YES	under processing	Not submitted			
				260 TPD																					

Kozhikode																						
Sl.No	District	Localbody	Population as per 2011 Census	Projected population(2019)	Quantity of Waste generated based on population (TPD)	Percentage of D2D Collection(Dry waste)		No of collectors	As reported by localbodies			Waste treatment technology used	Institutional level SWM Plants	Community Level SWM Plants	Household Level SWM Plants	Centralized	Non-Bio Degradable Waste Management	Site identified for Sanitary land fill	Dump sites identified	Authorizati on applied	Authorizati on granted	Annual report (Form IV)
						Household (%)	non-residential premises (%)		Quantity of waste Collected (TPD)	Quantity of waste processed (TPD)	Quantity of waste processed (TPD)											
1	Kozhikode Municipality	Kozhikode Corporation	613255	666110	302.34	47	37	598(Haritha Karma sena)	156.8		156.8	Centralized facility with windrow copost	Biogasplant-33 nos	Thumboormuzhi -26 nos,Biogas plant-3 nos	Biogas plant -444 nos pipe compost -10251 nos,ring compost -289 nos	Centralized plant with windrow compost	MCF-5 nos,MRF-3 nos	Nil	Njeliyanparamb.The legal sample is collected from the well inside the dumpsite on 23.03.2023	Yes	Yes Valid up to 26.08.2024	Submitted

1	Feroke Municipality		60562	24.84	70	45	30(Haritha Karma Sena)	22.5	22.5	Decentralized facility	Thumboormuzhi bin-2 nos	Nil	Biogas plant -100 nos pipe compost -1500 nos,ring compost -1156 nos,Biobin -1700 nos	Nil	MCF-1 nos,Mini MCF-16 nos	NIL	NIL	No	Resubmitted application to be processed	Submitted
2	Koduvally Municipality	48648	54529	15.94	80	75	aritha Karma	13.6	13.6	Decentralized facility	Thumboormuzhi bin-14 nos(Under processing)	Thumboormuzhi bin-2nos (under processing)	Ring compost-3600 nos,Biogas-235	Nil	MCF-1 nos	NII	Nil	No	Applied for authorization .Direction issued to submit certain documents to process the authorization on 29.06.2022	
3	Mukkam Municipality		40670	14.94	80	80	aritha Karma	12.6	12.6	Thumboormuzhi of bins -1nos	Thumboormuzhi of bins -2nos	Thumboormuzhi of bins-1 nos,Compost pit -2 nos,Biogas plant -1804 nos	Compost pit -2872 nos,Biogas plant -1804 nos	Thumboormuzhi of bins -1nos	Temporary MCF -1 nos,Mini MCF -1 nos	Nil	Nil	Yes	Yes Valid up to 02.02.2026	Submitted
4	Koyilandy Municipality		75911	25.34	80	80	aritha Karma	23	23	Decentralized facility	Thumboormuzhi compost pit-4 nos	Thumboormuzhi compost pit-6 nos	Biogas plant -140 nos pipe compost -100 nos,ring compost -3944nos,Biobin -3911 nos	Nil	MCF-1 nos,MRF-1 nos	Nil	Nil	No	Under processing	Submitted
5	Payyoli Municipality	49470	54000	14.94	100	100	aritha Karma	14.5	14.5	Decentralized facility	Nil	Nil	Ring compost-2000 nos,Biogas-500,Biobin -3200	Nil	MCF-1 nos Mini MCF-18 nos .MRF-1 nos	Nil	NIL	NO	Under processing	Submitted
6	Vadakara Municipality		79763	26.34	80	50	aritha Karma	24	24	Decentralized facility	Thumboormuzhi compost pit-5 nos	Thumboormuzhi compost pit-6 nos	Biogas plant -160 nos pipe compost -3290 nos,ring compost -224nos,Biobin -3681 nos,Buckets -518 nos	Nil	MCF-1 nos,RRF -1 nos, Mini MCF -12 nos	Nil	Nil	Yes	Yes Valid up to 12.08.2025	Submitted
7	Ramanattukara Municipality		40249	11.4	100	90	aritha Karma	11.4	11.05	Decentralized facility	Ring compost -50, Biogas -2 nos	Nil	Ring compost-3184 nos,Biogas-160	Nil	MCF -1 Nos	Nil	Nil	No	Resubmitted application to be processed	Submitted
PANCHAYATHS																				
1	Peruvayal Panchayath	55000		2.34	100	95	41(Haritha Karma Sena)active 34 nos	0.73	0.73	Decentralized facility	Ring compost -78 nos,	Nil	Ring compost-906 nos,Biogas-26	Nil	MCF-1 nos,Mini MCF -6 nos	NIL	Nil	NO	Not applied	Submitted

441.08 TPD

Wayanad

Sl.No	District	Localbody	Population as per 2011 Census	Projected population(2019)	Quantity of Waste generated based on population (TPD)	Percentage of D2D Collection(Dry waste)		No of collectors	As reported by localbodies			Waste treatment technology used	Institutional level SWM Plants	Community Level SWM Plants	Household Level SWM Plants	Centralized	Non-Bio Degradable Waste Management	Site identified for Sanitary land fill	Dump sites identified	Authorizati on applied	Authorizati on granted	Annual report (Form IV)
						Household (%)	non-residential premises (%)		Quantity of waste Collected (TPD)	Quantity of waste processed (TPD)	Quantity of waste processed (TPD)											

79		Kalpetta	31580	32842	20	56	81	41	6	6	4	Thumbboomuzhi Composting, WINDROW Composting	0.508 TPD Biodegradable waste managed, 0.561 TPD Non biodegradable waste managed.	1.3 TPD Biodegradable waste managed, 0.869 TPD Nonbiodegradable waste managed.	0.4 TPD Biodegradable waste managed, 0.11 TPD Nonbiodegradable waste managed	8 Acres of land is available in Vellaram kunnu Kalpetta.	MCF-1; RRF-1	At regional level	1	Yes	Under processing	Yes			
80		Mananthavady	34663	36048	21	31.24	11.61	45	0.236	0.236	0.236	Decentralised treatment		Thumbboomuzhi	Vermi composting 317 Biogas 217 Pipe compost 4100		MCF-1 (Temporary)	At regional level	Nil	No	N0	Yes			
81	Wayanad	Sulthanbathery	23333	24265	17	100	100	37	1.37	1.37	1.37	Decentralised treatment		Thumbur muzhi model compost	Biogas plant -192	0.5 Acres of land is available in Sulthan bathery construction of the plant is going on.	MCF-1	At regional level	1	Yes	Under processing	Yes			
					57.75 TPD																				

Kannur																						
Sl.No	District	Localbody	Population as per 2011 Census	Projected population(2019)	Quantity of Waste generated based on population (TPD)	Percentage of D2D Collection(Dry waste)		No of collectors	As reported by localbodies		Waste treatment technology used	Institutional level SWM Plants	Community Level SWM Plants	Household Level SWM Plants	Centralized	Non-Bio Degradable Waste Management	Site identified for Sanitary land fill	Dump sites identified	Authorizati on applied	Authorizati on granted	Annual report (Form IV)	
						Household (%)	non-residential premises (%)		Quantity of waste Collected (TPD)	Quantity of waste processed (TPD)												
1		Kannur Corporation	356000	370197	111	90 %		72	20	20	108	landfilling	Not reported	Biomethanation of 0.25 TPD	Biobins-102, Pipe compost-892, Ring Compost-713, Biogasplant-50	Windrow Composting-1(Under construction)	MCF-1, RRF-1, STP-1 (under construction)	at regional level	yes	no	no	no
2		Thalassery Municipality	92558	96257	41	85%		49	10	10	22	Decentralised treatment	Not given	Not given	Biobin-1203, Ringcompost-50, Biogasplant-21	nil	MCF-1	at regional level	yes	yes	no	no
3		Kuthuparamba Municipality	29619	30803	15	98%		41	5	3.5	15	Decentralised treatment	Aerobic Compost (Thumbboomuzhi Model) - 5 Bins	Aerobic Compost (Thumbboomuzhi Model) - 21 Bins	Biobin-1718, Ring compost-1821	nil	MCF-1, RRF-1	at regional level	yes	yes	no	no
4		Panoor Municipality	17438	18135	10	92%		23	5	5	3	Decentralised treatment	Not given	Not given	Biobin-191, Ring compost-4983	nil	under construction	at regional level	no	no	no	no
5		Thaliparamba Municipality	72465	75361	33.75	90%		34	6.5	6.5	12	Decentralised treatment	Not given	Windrow Composting	Ring compost-4500	Windrow compost(2500 ft2)	RRF-1, MCF-2, biogasplant(1 ton waste /day), ETP-5 m3	at regional level	no	no	no	no

6	Payyannur Municipality	72111	74993	30	Only for non biodegradable		52	10	10	15	Decentralised treatment	Not given	thumboormuzhi-2	Ring compost-7400(total),bokashi compost-2500, ringcompost-4300 (this year)	nil	RRF-50 ,MCF-50,Mini MCF-50	at regional level	yes	no	no	no
7	Anthoor Municipality	36290	37740	18	100%		28	4	4	6	Decentralised treatment	Aerobic Compost (Thumboormuzhi Model) - 6 units at 3 locations with capacity of 2000 kg/bin; Biogas Plant - 1 unit with capacity 40kg/day	Not given	Ringcompost-7500 provided till 2022,Bokashi composting-180(in 2023),Ring compost-700 (in 2023)	nil	MCF Capacity-200 OR2,RRF-200 OR2	at regional level	no	no	no	no
8	Sreekandapuram Municipality	17630	18335	10	100%		30	3.5	3.5	4	Decentralised treatment	Not given	Vermi Compost - bin with capacity -1 TPD (Not working since 2007)	Ringcompost-1100,Biogasplant-51	nil	MCF-1,RRF-1,Mini MCF-30	at regional level	no	no	no	no
9	Mattannur Municipality	47078	48959	22	85%(Non bio degradable)		53	17	17	8	Decentralised treatment	Not given	Biogas Plant - 1 bin with capacity 250kg/day Vermi Compost - 1 bin with capacity 5TPD	Ring compost-1200	Windrow Composting-1	MCF-2,RRF-1 ,windrow composting-1	at regional level	yes	yes	under processing	no
10	KANNUR Iritty Municipality	40369	41982	19	50%		36	3.6	3.5	8	Decentralised treatment	not given	thumboormuzhi(propose d)	Ring compost-2260, biobin1888	windrow composting-1	MCF-1,RRF-1	at regional level	yes	no	no	no
309.75 TPD																					

Kasaragod

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						Household (%)	non-residential premises (%)		Quantity of waste Collected (TPD)	Quantity of waste processed (TPD)												
1	KASARGOD	KANHANG AD	73536	89917	18	80	60	85 HARITHAK ARMA SENA	1.93	0.8	1	De centralized management facility two thumboor muzhi at puthiya kotta and fish market kanhangad			1.Ring compost-4196 2. kicthen bin 3.bokashi bucket-437		Material Collection Facility in 2 locations Resource Recovery Unit - 1 number Plastic Shredding Units - 1 No Bailing Unit - 1 Number	chemmattam vayal	Yes	yes		

